एनटीपीसी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise
नॉर्थ करणपुरा/ NORTH KARANPURA

Ref: NKSTPP/EMG/MoEF&CC/EC/

Dated: 09.07.2026

To
The Regional Office,
Ministry of Environment, Forest & Climate Change,
2nd Floor, Head Office, Jharkhand State Housing Board,
Harmu Chowk Ranchi - 834002

Sub: Half Yearly compliance Report of conditions stipulated in EC of North Karanpura Super Thermal Power Project (3x660MW) for the period Oct 2025 to March 2026.

In reference to your letter under reference No. J-13011/26/89-IA-II (T) dated 19.02.2014 & its amendment, the half yearly compliance report regarding compliance of conditions stipulated in Environmental Clearance for the period **Oct 2025 to March 2026** of North Karanpura Super Thermal Power Project (3x660 MW) is attached herewith.

This is for your kind information please.

Thanking you,

Yours Sincerely,

Junaid Jawaid
AGM(TS)
North Karanpura STPP, Tandwa, Chatra,
Jharkhand

जुनैद जावेद
अपर महाप्रबंधक (तकनीकी सेवाएँ)
Junaid Jawaid
Addl. General Manager (Tech. Services)
एनटीपीसी लिमिटेड, उत्तरांचल, चित्रा-चतरा
NTPC Limited, Tandwa, Dist.-Chatra

Enc: As Above:
Copy to:

(i) Member Secretary, Jharkhand Pollution Control Board, T. A Division Building, HEC Campus, P.O. Dhurwa, Ranchi – 834004, Jharkhand.
(ii) R.O. JSPCB, Hazaribagh.

एनटीपीसी NTPC North Karanpura
A Maharatna Company

HALF-YEARLY COMPLIANCE REPORT FOR ENVIRONMENTAL CLEARANCE (EC) FOR NORTH KARANPURA STPP (3X660 MW)

Date-09.07.2026

A. Compliance Report for Conditions Stipulated vide MOEF Letter No. J-13011/26/89-IA-II(T) dated 29.11.2004

Sl. No.	Stipulations of conditions	Status (As on 31.03.2026)
i.	The conditions stipulated by Bihar State Pollution Control Board (BSPCB) vide their letter no. BS/60 dated 31.12.2001 shall be strictly implemented	Strictly implemented. Details are attached as **Annexure-I**
ii.	Environmental clearance for construction of dam and Forest clearance if Forest land is involved for MGR, shall be obtained separately from the Ministry of Environment and Forests (MoEF)	Environmental Clearance for Garhi Dam has been accorded by MOEF vide letter dated 09.09.2005. Forest Clearance-NKSTPP Project Area Stage-I Forest Clearance has been accorded by MOEF&CC vide their letter no F.No.8-76/2007-FC dated 08.06.2009. Stage-II Forest Clearance has been accorded by MOEF&CC vide their letter no F.No.8-76/2007-FC dated 03.11.2015 for the forest land involved in project *(Copy already submitted with Half Yearly EC compliance report vide our letter no NKSTPP/EMG/MoEF&CC/EC/04/271 dated 25.04.2016).* After denial of construction of Garhi Dam by WRD, NTPC reviewed the proposal for construction of dam on Garhi River for withdrawal of water& has change the technology from water cooled condenser to air cooled condenser to reduce its water requirement (amendment of EC was granted by MoEF& CC on 31.10.2014 for change in technology) Government of Jharkhand granted NOC for construction of weir across the Garhi River vide letter no 468 dated 22/06/2015.Agreement between M/s DVC and NKSTPP has already been done.

09/07/2026
Sanjoy Kumar
DGM (EMG)

Sl. No.	Stipulations of conditions	Status (As on 31.03.2026)
iii.	R&R Plan shall be prepared in consultation with Govt. of Jharkhand and the same shall be submitted to MoEF within a period of **6 months** from the date of clearance letter.	The R&R Plan was formulated earlier but with the revival of the project, affected persons approached Govt. for an enhanced package. The enhanced package has been finalized in the VDAC meeting held on 04.12.2013 in consultation with District Administration/ Govt. of Jharkhand. The enhanced compensation is being disbursed to beneficiaries. A total amount of Rs. 317.12 Cr has been disbursed till March 26. The Community Development activities are being implemented in consultation with stakeholders. A provision of Rs 74.72 Cr (After Re-appropriation) has been kept for Community Development activities broadly related to Health Activities, Education Activities, Sports, Arts, Culture Activities, Infrastructure Activities, Training & Implementation Activities, Drinking water facilities, Solar Power facilities etc. Provision of Rs 74.72 Cr has been kept for Community Development activities broadly related to Health, Education, Drinking water, Welfare, Infrastructure, etc. Rs 1.69 Cr spent during this period and total cumulative amount of Rs 59.54 Cr has been spent till March 26. Social audit: Social Audit report has been submitted. The community development activities are being implemented in consultation with stakeholders. A provision of Rs 74.72 Cr has been kept for Community Development activities broadly related to Health-Medical Camp, Education-Merit award, sponsorship of student, furniture, lab items, books to Vananchal collage, Welfare activities (distribution of blankets, stationery support, financial assistance for cultural programmes), cleaning and renovation of Chhath Talab, promotion of sports and cultural activities, and Infrastructure Development (restoration of drinking water facilities, construction of roads and drains, provision of electric transformers and DG sets). The initiatives also include skill development and

Sl. No.	Stipulations of conditions	Status (As on 31.03.2026)
		training programmes, such as training of PAP women in domestic solar electrification and other livelihood-oriented activities. Further, provisions have been made for providing training to local employable youth and implementing income-generating programmes to enhance livelihood opportunities and socio-economic development of the community.
iv.	It shall be ensured that there is no leaching of heavy metals from the Ash Ponds and necessary corrective measures including clay blanketing shall be taken, A copy of the detailed design of the ash pond along with a note on necessary corrective measures to be taken shall be furnished to MoEF within **3 months.**	North Karanpura STPP envisages High Concentration Slurry Disposal System (HCSD) for Ash Disposal. In HCSD system, the disposed layer of ash is solidified and treated as impermeable layer as found by reputed institute like IIT Roorkee and there is no free water for overflow and no leachate or no risk of ash dyke getting breached.
v.	No earth shall be taken out from the ash pond area for any purpose.	Being complied
vi.	A minimum distance of 500 m from plant boundary to the riverine system including the submergence level shall be maintained	Complied. In the design of layout, a minimum distance of 500 m from plant boundary to riverine system has been maintained.
vii.	Copy of the permission for re-alignment of the road passing through the ash pond area shall be submitted to MoEF within **3 months** from the grant of clearance.	Consent letter from RCD, GoJ has been submitted in our earlier compliance report vide our letter no 043/GM/NK/ dated 23.04.2014.
viii.	List of flora / fauna duly authenticated by the PCCF / CWLW, or Academic Institution / University shall be submitted within **3 months** from the grant of clearance.	Already submitted.
ix.	Copy of the necessary coal linkage shall be submitted to MoEF within **6 months** from the grant of clearance.	Copy of Coal Linkage attached. as **Annexure-II**
x.	Two stacks (one bi-flue and one single flue) of 275 m each shall be provided with continuous online monitoring system. Exit velocity of 22 m/sec shall be maintained.	Three stacks (single flue) of 275 m each are envisaged with ***Online Continuous Stack Emission Monitoring System*** (CSEMS). The exit velocity of 22 m/sec is being maintained. Construction of flue completed.

Sl. No.	Stipulations of conditions	Status (As on 31.03.2026)
xi.	Electrostatic Precipitators (ESP) having efficiency of 99.9 % shall be installed to limit SPM emission up to 100 mg/Nm3.	This Condition no (xi) is deleted now vide the MoEF letter no J-13011/26/89-IA.II(T) dated 31.10.2014 regarding amendment of EC.
xii.	Ash generation will be 13,394 TPD. Ash shall be utilised in cement and brick manufacturing, roads / embankments, agriculture / wasteland development and for backfilling of abandoned mines. This shall be used in a phased manner as per provisions of the notification on Fly ash Utilisation issued by the Ministry in September 1999 and its subsequent amendments. Full fly ash utilisation shall be ensured by the end of 9th year from the date of commissioning of the plant.	49.63% ash utilisation done in 2025-26 (4th year of compliance cycle) NTPC will make best efforts to utilise ash in manufacturing of cement, ready mix concrete and bricks, construction of roads and embankments.
xiii.	Water requirement shall not exceed 10,100 m^3/hr. Wastewater shall be recycled and reused in the plant.	The water requirement has been revised as per EC dated 19.02.2014. This is likely to reduce further after adoption of dry cooling system, for which an amendment in EC is already received from MOEF vide their letter no J-13011/26/89-IA.II(T) dated 31.10.2014. The requirement is being maintained within the final stipulated quantity 2,180 m3/hr instead of 10,100 m3/hr. Wastewater is treated and recycled & reused in the plant during operation stage. Effluent treatment plant is under operation.
xiv.	Appropriate rainwater harvesting technology shall be finalised in consultation with the Central Groundwater Authority / Board within a period of **2 months** from the date of clearance.	CGWB, Patna has approved the rainwater harvesting scheme for enabling township, main plant & permanent township. Status of Construction of Rainwater Harvesting. (i) Enabling Township: Completed. (ii) Permanent Township: Completed (iii) Main Plant Area: Completed
xv.	Regular monitoring of water quality including heavy metals shall be undertaken around ash dyke and the project area to ascertain that there is no leaching of contaminants from ash disposal area.	Being complied. (Reports are attached as **Annexure- III**
xvi.	Noise level shall be limited to 75 dB Leq. Necessary personal protection equipment like ear plug etc. shall be provided to the persons working in the area of generator	Regular maintenance of equipment is undertaken to maintain the designed noise level of 75 dB Leq. Personal protective equipment are provided to all

Sl. No.	Stipulations of conditions	Status (As on 31.03.2026)
	and other high noise area.	persons working in the area of generator and other high noise areas during the operation stage. Monitoring of noise level inside project area is going on and reports are attached as **Annexure-IV**
xvii.	Greenbelt of 100 m width shall be developed around the plant boundary covering an area of 87 Ha.	Greenbelt is being developed around the plant boundary as mentioned in General Layout Plan. 1. NKSTPP has already planted 50730 no. of trees and donated 2500 no. fruit bearing trees among project affected villages. It will be developed in phased manner.
xviii.	Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. **6 monthly** monitoring report shall be submitted to the ministry.	Regular monitoring of air quality is started from January, 2021 and reports from April 2025 to 30th Sept 2025 are attached as **Annexure-V.**
xix	For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured.	For controlling fugitive dust, regular sprinkling of water is being done in project areas.
xx.	All other mitigate measures shall be taken as enumerated in chapter V of the EIA report.	Complied.
xxi.	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copy of clearance letter is available with the State Pollution Control Board / Committee and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in	Complied.
xxii.	A separate environment-monitoring cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate environment monitoring cell known as Environmental Management Group, (EMG) is already setup and functional at NKSTPP sites for implementation of the stipulated environmental safeguards.
xxiii	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the Ministry /	Being complied. Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards is being submitted regularly to the

Sl. No.	Stipulations of conditions	Status (As on 31.03.2026)
	Regional Office / CPCB / SPCB.	following. (i) MOEF&CC - Regional officer, of MOEF&CC, Ranchi, (ii) CPCB- Regional Director, CPCB, Kolkata and (iii) JSPCB - Member Secretary, Jharkhand State Pollution Control Board Ranchi. (Last half yearly report already submitted to the above vide through letter no. NKSTPP/EMG/ MoEF&CC/EC/56 dated 28.12.2025
xxiv.	Regional office of the Ministry of Environment & Forest located at Bhubaneswar will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment report and management plan shall be forwarded to the regional office.	Complied. Details already submitted to Regional office of MoEF, Bhubaneswar vide our letter no CC: ESE:4100:2005:GEN:02B, dated 7th Feb, 2005.
xxv.	Separate funds shall be allocated for implementation of environmental protection measures. Break-up of the funds for various activities shall be submitted to MoEF. This cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for any other purposes and year-wise expenditure shall be reported to the MoEF.	Being complied. An amount of Rs. 1125.34 Crores have been earmarked in the Feasibility Report for North Karanpura STPP towards environmental protection measures. (*Break-up of the funds for various activities is already submitted with Half Yearly EC compliance report vide our letter no NKSTPP/EMG/MoEF&CC/ EC/04/ 271 dated 25.04.2016).* *Total expenditure up to March 2026 is Rs. 1838.82 Crore.* In addition to above, An amount of Rs 11.11 Crores (Rs.2.93 Crores towards Compensatory Afforestation and Rs. 8.18 Crores towards Cost of Net Present Value) have been paid by NKSTPP to Jharkhand State Forest Department for diversion of forest land to NKSTPP, as on March 26.
xxvi.	Full cooperation shall be extended to the scientists / officers from the Ministry / Regional offices of the ministry at Bhubaneswar / CPCB / SPCB for monitoring the compliance of	Full cooperation is being extended to the scientists / officers from the Ministry / Regional offices of the ministry at Ranchi / the CPCB / the SPCB during monitoring of the project.

Sl. No.	Stipulations of conditions	Status (As on 31.03.2026)
	environmental norms and safeguards.	

B. Compliance Report for Additional Conditions Stipulated vide MOEF Letter No. J-13011/26/89-IA-II(T) dated 19.02.2014 Date: 09.07.2026

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31.03.2026
xxvii.	Vision document specifying prospective plan for the site shall be formulated and submitted to Regional Office of the Ministry within **six months**.	Vision document has been submitted with the compliance report submitted on 23.04.2014.
xxviii.	Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the ministry.	Rooftop solar PV 1100 KWp (approx.) has been envisaged inside NKSTPP premises on rooftop of following buildings: (a) Ash Water pump house. (b) CHP MCC – 1B. © O&M Workshop building. (d) Permanent store building. (e) Compressor house building. (f) Fire station building. (g) Fire water PH building. (h) Switchyard control building. (i) Vishvesvaraiya office complex building. Work has been awarded to M/s Solluz Energy Private Limited, N. Delhi. 07 (654 kwp) out of 09 identified locations completed and balance 02 by Aug 26.
xxix.	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5% and 48% at any given time. In case of variation of coal quality at any point of time, fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.	Being complied. (Reports attached as **Annexure-VI**
xxx.	A long term study on radio activity and heavy	An amendments was done by

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31.03.2026
	metals contents on coal to be used shall be carried out through a reputed institute. Thereafter, mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	MoEF&CC on 7th September, 2022 vide F.No. J-13011/26/89-IA.II(T) in which "In-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place" was omitted and regular periodic monitoring was added. Testing of Coal, Dry fly ash & Bottom ash done on 18.12.2025 by BRIT, Department of Atomic Energy, Navi Mumbai & measured values were found below clearance level. (Reports are attached as **Annexure-VII**)
xxxi.	Mercury emissions from stack shall also be monitored on periodic basis.	Complied. (Reports are attached as **Annexure-VIII**)
xxxii.	High Efficiency Electrostatic Precipitation (ESPs) shall be installed to ensure that particulate emission from the proposed plant does not exceed 50mg/Nm3.	Complied. Installation of High Efficiency Electrostatic Precipitation (ESPs) is in operation. All ESPs are designed to meet prevailing emission standard.
xxxiii.	Provision for installation of FGD shall be provided for future use.	Space has been kept in the lay out for installation of FGD plant. FGD package awarded to M/s BHEL. Work is under progress.
Xxxiv	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Adequate dust extraction system has been provided in coal handling and ash handling points, transfer areas and other vulnerable dusty areas (2 nos DE systems installed in crusher house). DFDS systems are installed at Transfer points.
xxxv.	COC of at least 5.0 shall be adopted. the water requirement shall not exceed 5,835 m3/h.	NTPC proposes to adopt of Air Cooled Condenser System for the project instead of wet cooling system. This will reduce the overall water requirement from 10,100 m3/hr to 2,180 m3/hr. An amendment in Environmental Clearance is received from MOEF in this regard vide their letter no J-13011/26/89-IA.II(T) dated 31.10.2014 *(Copy already submitted with Half Yearly EC compliance report dated 08.04.2015).*

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31.03.2026
		Hence this condition no (xxxv) is deleted now.
xxxvi.	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/operation of the power plant.	No water bodies are disturbed due to activities associated with the setting up/operation of the power plant.
xxxvii	Hydrogeology of the area shall be reviewed annually from an institute/organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case any deterioration is observed specific mitigation measures shall be undertaken and reports/data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	Study of Hydrogeology of the area has been awarded to M/s IIT Roorkee and its final report is attached as **Annexure-IX (a).**
xxxviii.	Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Complied. Reports attached as **Annexure IX (b)**.
xxxix	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB/CPCB.	Complied. All waste water generated from the plants are treated at ETP and reused at Bottom Ash Slurry tank. ETP at Plant site & STP at enabling township are in operation. STP at plant site is in operation.
xl.	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Being complied.
xli.	Utilization of 100% fly ash generated shall be made from 4th year of operation. Status of implementation of the Fly Ash Utilization Notification and its amendments shall be reported in the Regional Office of the Ministry from time to time.	Shall be complied. Ash utilisation for FY 2025-26 was 49.63%.
xIii.	Fly Ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no Leachate shall take place	Fly Ash is not being used for agricultural purpose. No mine void filling is undertaken. In case, the option of mine void filling is to be adopted, prior detailed study of soil

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31.03.2026
	at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.	characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation will be done in close co-ordination with the State Pollution Control Board.
xliii.	Fly Ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Being complied.(Reports attached as **Annexure-X**.
xliv.	Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no Leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	North Karanpura STPP envisages High Concentration Slurry Disposal System (HCSD) for Ash Disposal. In HCSD system, the disposed layers of ash is solidified and treated as impermeable layer as found by reputed institute like IIT Roorkee and there is no free water for overflow and leachate or no risk of ash dyke getting breached.
xlv.	Fugitive emission of fly ash (dry or wet) shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided in consultation with the local Panchayat.	Being complied
xlvi.	Green Belt consisting of three tiers of plantations of native species around plant and at least 50 m width shall be raised. Wherever 50 m width is not feasible a 20 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 80%.	Space for Green Belt has been earmarked in General Layout Plan. Native / Local plants species will be planted and density of 2500/ha shall be maintained with survival rate of not less than 80%. 1. NKSTPP has already planted 50730 no. of trees and also distributed 2500 no. fruit bearing trees among project affected villages. It will be developed in phased manner. This year target of tree plantation is 12000 in which 12000 no. are already planted near township and surrounding area.

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31.03.2026
xlvii.	A common **green endowment fund** shall be created and the interest earned out of it shall be used for the development and management of green cover of the area.	Annual adequate budget provision kept for development and management of green cover of the area. In FY 25-26 Fund allocated: 3.21 Crore
xlviii.	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Being complied. Project proponent adequately contributing in the development of the neighbouring villages through Community Development activities like Infrastructure development in Village, Schools, Health check-up to villagers, Education and Training to student, Solar lighting in village, Provision of drinking water to villagers etc. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools is being undertaken. Existing water supply system has been strengthen. Supply of potable drinking water by water tanker in each Project Affected Villages. Water bottle have been provided to school students. Provision of Solar water system at Project Affected Villages is being done.
xlix.	A minimum amount of 0.4 % of the project cost shall be earmarked as one time capital cost for activities to be taken up under CSR during construction phase of the project. Subsequently, a recurring expenditure of $1/5^{th}$ of the capital cost of the CSR budget shall be earmarked for CSR activities per annum till life of the plant. Social audit by a reputed University or an Institute shall be carried out periodically as per CSR guidelines of Govt. of India and details to be submitted to MOEF besides putting it on Company's website	As per EC Amendment No. F.No. J-13011/26/89-IA.II(T)dtd. 07.09.2022 "Subsequently, a recurring expenditure of $1/5^{th}$ of the capital cost of the CSR budget shall be earmarked for CSR activities per annum till life of the plant" is omitted. Provision of Rs 74.72 Cr has been kept for Community Development activities broadly related to Health, Education, Drinking water, Welfare, Infrastructure, etc. Rs 1.69 **Cr** spent during this period

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31.03.2026
		and total cumulative amount of Rs 59.54 Cr has been spent till March 26. **Social audit:** Social Audit was carried out through KPMG and report is already submitted to MoEF& CC.
I.	CSR schemes identified based on need-based assessment shall be implemented in consultation with the village Panchayat and District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programmes.	Being complied. The community development activities are being implemented in consultation with stakeholders. A provision of Rs 48 Cr has been kept for Community Development activities broadly related to Health-Medical Camp, Education-Merit award, sponsorship of student, furtinure, lab items, books to Vananchal collage, Welfare-Blanket, stationeries, Financial assistance for cultural program, cleaning & renovation of chhath Talab, sports & culture, Infrastructure development- Restoration of Drinking water facilities, construction of road, drain, provision of electric transformer, DG set and training-physically handicapped to PAP women on domestic solar electrification etc. The said activities would also include provisions to provide training to local employable youth and income generating programmes.
Ii.	An Environmental Cell comprising of at least one expert in environmental science/engineering, occupational health and social scientist, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the head of the cell shall directly report to the head of the organization who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.	An Environmental cell [known as Environmental Management Group (EMG)] is already created at project site and functional.
Iii.	The treated effluents conforming to the prescribed standards only shall be re-circulated and re-used within the plant.	❖ Being complied. ❖ Arrangements has been made that effluents and storm water do not get

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31.03.2026
	Arrangements shall be made that effluents and storm water do not get mixed.	mixed.
liii.	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	(i) Sewage Treatment Plant having capacity of 300 KLD is in operation at enabling township area and treated sewage is being used in horticulture. (ii) Sewage Treatment Plant having capacity of 100 KLD is in operation at plant site and treated effluent is being used in horticulture.
liv.	Adequate safety measures shall be provided in the plant area to check / minimise spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Being complied.
lv.	Storage Facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in the plant area in consultation with Department of explosives, Nagpur. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Complied. Disaster Management Plan is prepared and available at site. Copy of DMP is enclosed as **Annexure-XI.**
lvi.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied. First Aid and sanitation arrangements has been made available to the drivers and contract workers at project site.
lvii	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in high noise area, requisite personal protective equipment like earplugs/ ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy / less noisy areas.	Being complied.
lviii.	Regular monitoring of ambient air ground level concentration of SO_2, NO_x, $PM_{2.5}$ and PM_{10} and Hg shall be carried out in the impact	Regular monitoring of air quality is being done and reports are attached as **Annexure-V.**

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31.03.2026
	zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	
lix.	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied Provision has been made available for the housing of construction labour within the site with all necessary infrastructure i.e. Toilet, safe drinking water with RO Plant, Medical check-up facilities.
lx.	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB. The criteria pollutant levels namely; SPM, RSPM ($PM_{2.5}$ and PM_{10}), SO_2, NO_x(ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Being complied.
lxi.	**The environment statement** for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Being complied.
lxii.	The project authorities shall inform the Regional Office as well as the Ministry regarding date of Financial closure and final approval of the project by the concerned authorities and the dates of start of land	Investment approval for the project has been accorded by the Board of Directors of NTPC on 28.01.2014. The award for main plant had been placed on 28.02.2014.

Sl. No.	Stipulations vide EC letter dated 19.02.2014	Status on 31.03.2026
	development work and commissioning of the plant.	COD of Unit-1 done on 01.03.2023 COD of Unit-2 done on 20.03.2024 COD of Unit-3 done on 15.06.2025

C. Compliance Report for Additional Conditions Stipulated vide MOEF Letter No. F. No. J- 13011/26/ 89-IA.II (T) dated 07.09.2022 Date: 09.07.2026

Sl. No.	Stipulations vide EC letter dated 07.09.2022	Status on 31.03.2026
(i)	24x7 online Continuous monitoring system for ambient air quality parameters SOx, NOx and PM shall be established with connected server to CPCB and SPCB.	24x7 online Continuous monitoring system for ambient air quality parameters SOx, NOx and PM has been established and connectivity with CPCB and SPCB server is done.
(ii)	All the Public hearing issues shall be addressed, skill development programme, sanitation facilities, Education and drinking in an around 5 km of project boundary shall be provided as CER activities. Status report and cost incurred in all activities shall be submitted on six monthly basis.	Being Complied.
(iii)	MoU shall be signed with State government in a time bound manner (within 6 months) for establishment of Power Engineering College and its implementation reports shall be submitted along with six monthly compliance report on PARIVESH .An alternative option like ITI/ Diploma Institute within 1O km radius of the project site shall be explored and implemented under definite time schedule in case MoU is not signed for construction of college. Required land for establishing Power Engineering College/ITI/Diploma Institute may be acquired by the NTPC.	Shall be complied.

09/07/2026

संजय कुमार / Sanjoy Kumar
उप महाप्रबंधक (ई एम जी)
Dy. General Manager (EMG)
एनटीपीसी लिमिटेड, नार्थ करणपुरा- 825321
NTPC Limited, North Karanpura- 825321

Annexure-I

Compliance report for condition stipulated vide through Jharkhand State Pollution Control Board letter no PC/NOC/HBG/176/14/D-12318 dated 11.01.2014 and old NOC of BSPCB vide letter NO B-8160 dated 31.12.2001 **Date: 09.07.2026**

Sl. No.	Stipulation of Conditions of BSPCB, Letter No. B-8160 dated 31.12.2001	Status (As on 31.03.2026)
i.	The unit Shall obtained consent to operate under sections 25 of the Water Act,1974 and section 21 of the Air Act, 1981, prior to commissioning of the plant from pollution control board.	CTO for U-I has been taken from Jharkhand Pollution Control Board Vide ref. no. JSPCB/HO/RNC/CTO-9389769/2022/122 DTD 01/02/2022. CTO for U-II has been taken from JSPCB vide Ref No. JSPCB/HO/RNC/CTO-17275310/2024/369 dtd. 08/03/2024 CTO for U-III has been taken from JSPCB vide Ref No. JSPCB/HO/RNC/CTO-21483699/2025/1572 dtd. 15/06/2025
ii.	The effluent (Domestic & Trade) and emission, if any shall confirm to the standard prescribed by the board.	Being complied. **(Reports attached as Annexure-XII)**
iii.	Minimum height of the proposed stacks (one single flue steel lined RCC stacks & one twin flue steel lined RCC stack) shall be 275 meters each with port hole and platform as per norms of the central pollution control board.	Height of the stacks (Three stacks single flue) is 275 meters. Online Continuous Stack Emission Monitoring System (CSEMS) is provided in stacks. Construction of stacks are completed and in under operation and details are as below. Stack of Unit-I, II & III - Shell casting of all the three Chimneys completed. Unit I completed and are under in operation from Ist March 2023. Unit II completed and are under in operation from 20th March 2024 and Unit III completed and are under in operation from 15th June, 2025.

09/07/2026

Sl. No.	Stipulation of Conditions of BSPCB, Letter No. B-8160 dated 31.12.2001	Status (As on 31.03.2026)
iv.	High efficiency ESP shall be provided to achieve standard prescribed by the board.	Complied. Installation of High Efficiency Electrostatic Precipitation (ESPs) is in operation. All ESPs are designed to meet prevailing emission standard.
v	Effective measures shall be taken to control Fugitive dust pollution within plant premises and around Ash disposal area.	All effective measures has been taken to control fugitive dust pollution within plant premises and around ash disposal area. Water spraying through tanker is being carried out on regular basis.
vi	Trade effluent from plant and domestic effluent from the captive colony shall be suitable stored and treated to the standards: treated effluent shall be recycled and reused to the maximum extent.	Trade effluent from plant and domestic effluent from the captive colony is being suitable stored and treated in ETP and STP respectively to achieve the prescribed standards. Treated effluent is being recycled and reused to the maximum extent. (i) **Enabling Township:** -Sewage treatment (STP) having capacity of 300 KLD is in operation. (ii) **Main Plant Area:** - ETP and STP are in operation.
vii.	Analysis report of the raw and treated effluent shall be submitted to the board immediately after commissioning of the plant and thereafter monthly.	Complied (Reports attached as **Annexure-XII**).
viii.	Ambient air quality report of the area (station as in EIA) shall be submitted to the board before and after commissioning of the plant along with the stack monitoring report monthly.	Complied. Report is attached as **Annexure-V.**
ix.	Unit shall submit detailed scheme for management of the ash. The scheme shall include measures taken for manufacturing	Attached as **Annexure-XIII** Fly ash/ Pond ash is being offered to

Sl. No.	Stipulation of Conditions of BSPCB, Letter No. B-8160 dated 31.12.2001	Status (As on 31.03.2026)
	ash bricks and utilization of ash within one year.	bricks manufacturing units, NHAI, Mines etc free of cost for utilization as per GOI notification.
x.	Detailed EIA shall be submitted to the board within one year which should also include detailed hydrological scenario of surface and subsurface water level, besides litho-section at plant and ash disposal area. In such hydrological study, correlation of the available water table at plant and ash disposal area shall be made and incorporated.	Complied Detail's already submitted to Regional office of MoEF, Bhubaneswar vide our letter no CC:ESE:4100:2005:GEN:02B dated 7th Feb ,2005.
xi.	The unit shall set up a modern laboratory for regular monitoring of the impact on land, air, underground and surface water. For this purpose, an area having 10 km radius from the plant zone of influence, shall be considered.	Testing from NABL & MOEF accredited Lab is being done.
xii.	The unit shall explore the feasibility of using washed coal and in this context CCL should be especially requested.	The unit shall explore the feasibility of using washed coal.
xiii.	The unit shall not commence its operation without the environmental clearance of MOEF, GOI.	Complied North Karanpura Super Thermal Power Project received Environmental Clearance (EC) from the Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India, vide MoEF letter No. J-13011/26/89-IA-II(T) dated 29.11.2004. The said Environmental Clearance was subsequently revalidated by MoEF&CC vide letter No. J-13011/26/89-IA-II(T) dated 19.02.2014. Further, amendments to the Environmental Clearance were issued by MoEF&CC vide letter No. J-13011/26/89-IA-II(T) dated 31.10.2014

Sl. No.	Stipulation of Conditions of BSPCB, Letter No. B-8160 dated 31.12.2001	Status (As on 31.03.2026)
		and 07.09.2022.
xiv.	Three tier plantations with a minimum 100 meters width shall be done all around the plant site and around the captive colony and maintained plantation shall also be done on the slope and abandoned ash disposal area. In order to neutralise the adverse impact on the captive colony physical barrier between the captive colony and the plant site shall be made.	Space for Green Belt has been earmarked in General Layout Plan. Native / Local plants species will be planted and density of 2500/ha shall be maintained. 1. NKSTPP has already planted 50730 no. of trees and also distributed 2500 no. fruit bearing trees among project affected villages. It will be developed in phased manner.
xv.	Suitable space will be provided for retrofitting the FGD system. The design and layout of steam generator and its auxiliaries would be such that a wet/dry FGD system can be installed.	Suitable space is already provided in General layout Plan for retrofitting the FGD system. A provision has been incorporated in General layout plan for installation of FGD in North Karanpura STPP. FGD package awarded to M/s BHEL.
xvi.	The unit shall fix permanent sampling stations up and down stream of effluent disposal points on Garhi River	Since it is a Zero Liquid Discharge (ZLD) Compliance station therefore no effluent disposal points on Garhi River. However periodical monitoring of Upstream and Downstream of Plant site on Garhi River water being done.

SAP Contract No.

MODIFIED-MODEL

COAL SUPPLY AGREEMENT

BETWEEN

CENTRAL COALFIELDS LIMITED

AND

NTPC LIMITED

FOR

NORTH KARANPURA SUPER THERMAL POWER PLANT
UNIT 1-3 (3x660 MW)

[23/02/2023]

This Agreement is made on this **23rd day of February, 2023** between **Central Coalfields Limited**, a company registered under the Companies Act, 1956 and having its registered office at Darbhanga House, Ranchi, 834029, Jharkhand hereinafter called the "Seller" (which expression shall unless excluded by or repugnant to the subject or context, include its legal representatives, successors and permitted assigns) of the one part,

AND

M/s NTPC Limited, a company registered under the Companies Act, 1956 and having its registered office at **NTPC Bhawan, SCOPE Complex, 7, Institutional Area, Lodhi Road, New Delhi-110003**, hereinafter called the "Purchaser" (which term shall unless excluded or repugnant to the subject or context include its legal representatives, successors and permitted assigns) of the other part

AND

Whereas the Purchaser or its predecessor-in-interest was issued a Letter of Assurance (LOA) dated **04.02.2023** vide Reference No. CCL/HQ/C-4/LOA(Power)/2022-23/261 against **3x660 MW plant capacity of the Purchaser's North Karanpura STPP** and the Purchaser has achieved the milestones as set out in the Annexure 1 of the LOA and fulfilled other conditions as stipulated under the LOA.

OR

Whereas the Purchaser has been granted linkage of Coal by Standing Linkage Committee – Long Term (SLC- LT)

AND

Whereas the Purchaser has requested Seller for execution of FSA and supply of Coal to its **North Karanpura STPP Unit 1-3 (3x660 MW)** located at **Tandwa Town, Distt. Chatra, 825321, Jharkhand** of the Purchaser (as per details contained in Schedule-I to this Agreement) and the Seller has agreed to make such supplies on the terms and conditions set out hereafter,

AND

Whereas the Purchaser has entered into or is yet to enter into long term Power Purchase Agreements (PPA) either directly with Distribution Companies (DISCOMs)or through Power Trading Company (ies) (PTC) who has / have signed back to back PPA(s) (long-term) with DISCOMs and have commissioned or would get commissioned.

AND

Whereas, the Purchaser has not any direct / indirect interest in any manner as associate or group company with any entity who has been allotted coal block in India for end use as stipulated in clause 3.2 with further reinforcement by Schedule-I in accordance with guidelines/policies of the Government of India relating to Letter of Assurance/ Allocation of coal on tapering basis.

f. **"Business Day"** shall mean each Monday, Tuesday, Wednesday, Thursday, Friday and Saturday that is not declared a holiday in the State of **Jharkhand** under the Negotiable Instruments Act, 1981.

g. **"Coal"** means non-coking as well as coking coal, produced domestically and categorized into different classes, GCV bands, grades and sizes, as per the notification/order issued for such purpose by Government of India(GoI)/CIL/ Seller and shall, where the context so requires, include Imported Coal. For the avoidance of any doubt, Coal shall also include the middlings arising out of washing of coking and non-coking coal.

h. **"Condition Precedent Period"** shall have meaning ascribed to it under Clause 2.8.3.1

i. **"CIL"** means Coal India Limited, the holding company of the Seller, having its registered office at Coal Bhawan, Premise No-04 MAR, Plot No-AF-III,Action Area-1A, Newtown,Rajarhat,Kolkata-700156, India, and having authorities to enter into any agreement/side agreements, supplementary to this agreement for ensuring supply of coal from import of coal or other alternative sources.

j. **"Coal Distribution System"** of the Seller would include any distribution system in force including directions thereon from the Government issued from time to time.

k. **"Colliery Loading Point"** shall mean

(i) Silo, or
(ii) Mid point for wharf wall loading at the colliery, or
(iii) Truck loading point, or
(iv) Ropeways loading point, or
(v) Transfer point to the customer's belt conveyor etc, as the case may be.

l. **"Declared Grade"** means the particular grade(s) under different categories [as defined at 1.1(s)] of Coal mined from any seam or section of a seam in the Seller's collieries as declared by CIL or the Seller from which Coal is produced and supplied under this Agreement, as declared by CIL or the Seller.

m. **"Delivery Point"** means any of the colliery sidings or Colliery Loading Points, as the case may be, in the designated Coal mine of the Seller as per Schedule I, and/ or the location(s)/ port(s) identified by the Seller at which the Seller delivers Imported Coal in accordance with the terms of this Agreement.

n. **"DISCOM"** means the "Distribution Licensee" who is authorized to operate and maintain a distribution system for selling electricity to the consumers in his area of supply at tariffs regulated by the State / Central Regulatory Authority, whichever is applicable.

o. **"Effective Date"** shall mean the date of occurrence of the last of the events specified under clause 2.8.3.2 or 2.8.3.3

cc. "**Party**" means either the Seller or the Purchaser, and "**Parties**" mean a joint reference to the Seller and the Purchaser

dd. **"Interest Rate"** shall mean the repo rate of Reserve Bank of India (RBI) as applicable on the due date of payment by the Purchaser plus 3% (three).

ee. **"Performance Incentive"** shall have the meaning ascribed to it in Clause 3.12.

ff. "**Pithead**" shall mean any of the following as the context may admit:

In case of an underground Coalmine, Pithead shall mean the point of entry into the mine on the surface of coal mine at the ground level and would be a place or point distinct from Delivery Point

In case of an open-cast Coalmine, Pithead shall mean the exit point of Coal on surface (mouth/entry of the main access trench or an auxiliary access trench). In case of open-cast mines with more than one exit points of Coal, there will be as many 'Pitheads' and will apply respectively to the amount of Coal egressing from a particular exit point.

The distance of transportation on surface from the Pithead (mouth of the main access trench or an auxiliary access trench) to the Colliery Loading Point shall be measured along the route of Coal transportation.

gg. **"PPA" (Long Term)** means the Power Purchase Agreement between the Power Generating Source and the power procurer(s), i.e. DISCOM(s) directly or through PTC(s) who has/ have signed back to back PPA(s) with DISCOMs for a period of 7 years and above. However, the same shall not be applicable for the portion which is sold under market driven price.

hh. **"Purchaser's Container"** means the Railway wagons and/or trucks placed for and on behalf of the Purchaser and/or receiving hopper, bunker, transfer point owned by the Purchaser from where Coal is moved by the Purchaser directly to its Power Station by belt conveyor.

ii. **"Quarterly Quantity"** or **"QQ"** shall have the meaning ascribed to it in Clause 3.4.

jj. **"Seller's Financial Closure"** shall mean the date on which execution of all the loan agreements, notes, indentures, security agreements, letters of credit and any other documents relating to the financing of the coal block have become effective and the Seller has immediate access to such funding with respect to development and operation of the coal block identified in Schedule I to this Agreement.

kk. **"Signature Date"** shall mean the Date of signing of this Agreement by both Parties.

e) A reference to an agreement, deed, instrument or other document include the same as amended, novated, supplemented, varied or replaced from time to time; and

f) The expressions "including", "includes" and "include" have the meaning as if followed by "without limitation".

g) Words imparting the singular only also include plural and vice-versa where the context so requires;

h) The expression "writing" or "written" shall include communications by facsimile and letter;

i) If any definition in Clause 1.1 is a substantive provision conferring a right or imposing an obligation on any Party, effect shall be given to it as if it were a substantive provision in the body of this Agreement.

2. PERIOD OF AGREEMENT:

2.1 This Agreement shall come into force on the **Effective Date**

2.2 This Agreement shall, unless terminated in accordance with the terms hereof, remain in force till the end of **twenty (20) years** from the Effective Date or the Life of the Power plant whichever is earlier.

2.3 After completion of five (5) years from the First Delivery Date, either Party may, by prior written notice to the other Party for a period not less than thirty (30) days, seek a review of this Agreement.

2.4 Notwithstanding the provisions of Clause 2.2 above, in the event of any change in the Grade structure of Coal, such changed Grade structure shall be binding and complied with by both the Parties. The Seller shall within fifteen (15) days of introduction of such change provide a written notice to the Purchaser calling for a joint review of such provisions of this Agreement on which such change in the Grade structure has a bearing, and upon such joint review, this Agreement shall be duly amended in writing to bring it in full conformity with such change.

2.5 In the event, the Parties are unable to arrive at a mutually agreed position with respect to the subject matter of review in terms of Clause 2.3 within a period of three (3) months from expiry of each five (5) year term, the Parties shall refer the matter to the Govt. of India and until a decision from the Government of India is received, the Agreement shall continue to be in force. The decision of the Govt. of India on the subject matter shall be final and binding on both the Parties.

2.6 (i) In the event of any material change in the Coal distribution system of the Seller due to a Government directive/ notification, at any time after the execution of this Agreement, the Seller shall within seven (7) days of introduction of such change provide a written notice to the Purchaser calling for a joint review. If the Parties

Idma Laboratories Limited

TC-8207

TEST REPORT

LAB NO.	040825N-E-001	Page No.1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	GroundWater	
Quantity	5+1 Litre	
Packing,Merkings	Packedin5Litrecan&1LitreGlass bottle	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.08.2025	
Location of Sampling	Naiparam Village	
Date of Receiving of sample	04.08.2025	
Period of Analysis	04.08.2025 to 09.08.2025	
Date of Reporting	09.08.2025	
Sampling Protocol	IS:17614	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	—	7.44	APHA 4500H+B 24th Edition,2023
2	Temperature	°C	24.8	APHA 2550B 24th Edition,2023
3	Conductivity	µS/cm	548.7	APHA 2120B&C 24th Edition,2023
4	Total Suspended Solid	mg/L	<5	APHA 2540D 24th Edition,2023
5	Total Dissolved Solids	mg/L	310	APHA 2540C 24th Edition,2023
6	Ca Hardness	mg/L	140	APHA 3500-CaB 24th Edition,2023
7	Mg Hardness	mg/L	68	APHA 3520-MgB 24th Edition,2023
8	Fluorides	mg/L	0.35	CPCB Guide Manual: Water & waste water Analysis
9	Copper	mg/L	<0.0005	APHA 3125B 24th Edition,2023
10	Iron	mg/L	0.0009	APHA 3125B 24th Edition,2023
11	Boron	mg/L	<0.0005	APHA 3125B 24th Edition,2023
12	Arsenic	mg/L	<0.0005	APHA 3125B 24th Edition,2023
13	Mercury	mg/L	<0.0005	APHA 3125B 24th Edition,2023
14	Manganese	mg/L	<0.0005	APHA 3125B 24th Edition,2023
15	Zinc	mg/L	0.0006	APHA 3125B 24th Edition,2023
16	Nickel	mg/L	<0.0005	APHA 3125B 24th Edition,2023

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Email : commercial@idmalab.co.in

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LAB NO.		040825N-E-001		Page No.2/2
17	Cadmium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
18	Chromium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
19	Chromium Hexavalent		<0.05	APHA 3500CrB 24th Edition,2023
20	Lead	mg/L	<0.0005	APHA 3125B 24th Edition,2023
21	COD	mg/L	<4	CPCB Guide Manual: Water & waste water Analysis
22	BOD	mg/L	<2	CPCB Guide Manual: Water & waste water Analysis
23	Total Coliforms	MPN/100ml	Absent	IS1622:1981
24	E-Coli	MPN/100ml	Absent	APHA 9221E 24th Edition,2023
25	Fecal Coliforms	MPN/100ml	Absent	IS1622:1981

EndofReport

Authorised By

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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TEST REPORT

LAB NO.	040825N-E-002	Page No.1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	GroundWater	
Quantity	5+1 Litre	
Packing,Markings	Packedin5Litrecan&1LitreGlass bottle	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.08.2025	
Location of Sampling	Dundua Village	
Date of Receiving of sample	04.08.2025	
Period of Analysis	04.08.2025 to 09.08.2025	
Date of Reporting	09.08.2025	
Sampling Protocol	IS:17614	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.51	APHA 4500H+B 24th Edition,2023
2	Temperature	°C	24.6	APHA 2550B 24th Edition,2023
3	Conductivity	µS/cm	573.5	APHA 2120B&C 24th Edition,2023
4	Total Suspended Solid	mg/L	<5	APHA 2540D 24th Edition,2023
5	Total Dissolved Solids	mg/L	324	APHA 2540C 24th Edition,2023
6	Ca Hardness	mg/L	148	APHA 3500-CaB 24th Edition,2023
7	Mg Hardness	mg/L	70	APHA 3520-MgB 24th Edition,2023
8	Fluorides	mg/L	0.40	CPCB Guide Manual: Water & waste water Analysis
9	Copper	mg/L	<0.0005	APHA 3125B 24th Edition,2023
10	Iron	mg/L	0.0032	APHA 3125B 24th Edition,2023
11	Boron	mg/L	<0.0005	APHA 3125B 24th Edition,2023
12	Arsenic	mg/L	<0.0005	APHA 3125B 24th Edition,2023
13	Mercury	mg/L	<0.0005	APHA 3125B 24th Edition,2023
14	Manganese	mg/L	<0.0005	APHA 3125B 24th Edition,2023
15	Zinc	mg/L	0.0009	APHA 3125B 24th Edition,2023

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LAB NO.		040825N-E-002		Page No.2/2
16	Nickel	mg/L	<0.0005	APHA 3125B 24th Edition,2023
17	Cadmium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
18	Chromium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
19	Chromium Hexavalent		<0.05	APHA 3500CrB 24th Edition,2023
20	Lead	mg/L	<0.0005	APHA 3125B 24th Edition,2023
21	COD	mg/L	4	CPCB Guide Manual: Water & waste water Analysis
22	BOD	mg/L	<2	CPCB Guide Manual: Water & waste water Analysis
23	Total Coliforms	MPN/100ml	Absent	IS1622:1981
24	E-Coli	MPN/100ml	Absent	APHA 9221E 24th Edition,2023
25	Fecal Coliforms	MPN/100ml	Absent	IS1622:1981

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Idma Laboratories Limited

TC-8207

TEST REPORT

LAB NO.	040825N-E-003	Page No.1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	GroundWater	
Quantity	5+1 Litre	
Packing,Markings	PackedinSLitrecan&1LitreGlass bottle	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.08.2025	
Location of Sampling	Raham Village	
Date of Receiving of sample	04.08.2025	
Period of Analysis	04.08.2025 to 09.08.2025	
Date of Reporting	09.08.2025	
Sampling Protocol	IS:17614	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	----	7.39	APHA 4500H+B 24th Edition,2023
2	Temperature	°C	24.5	APHA 2550B 24th Edition,2023
3	Conductivity	µS/cm	559.3	APHA 2120B&C 24th Edition,2023
4	Total Suspended Solid	mg/L	<5	APHA 2540D 24th Edition,2023
5	Total Dissolved Solids	mg/L	316	APHA 2540C 24th Edition,2023
6	Ca Hardness	mg/L	124	APHA 3500-CaB 24th Edition,2023
7	Mg Hardness	mg/L	65	APHA 3520-MgB 24th Edition,2023
8	Fluorides	mg/L	0.45	CPCB Guide Manual: Water & waste water Analysis
9	Copper	mg/L	<0.0005	APHA 3125B 24th Edition,2023
10	Iron	mg/L	0.0036	APHA 3125B 24th Edition,2023
11	Boron	mg/L	<0.0005	APHA 3125B 24th Edition,2023
12	Arsenic	mg/L	<0.0005	APHA 3125B 24th Edition,2023
13	Mercury	mg/L	<0.0005	APHA 3125B 24th Edition,2023
14	Manganese	mg/L	<0.0005	APHA 3125B 24th Edition,2023
15	Zinc	mg/L	0.0011	APHA 3125B 24th Edition,2023

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Idma Laboratories Limited

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TEST REPORT

LAB NO.		040825N-E-003		Page No.2/2
16	Nickel	mg/L	<0.0005	APHA 3125B 24th Edition,2023
17	Cadmium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
18	Chromium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
19	Chromium Hexavalent		<0.05	APHA 3500Cr-B 24th Edition,2023
20	Lead	mg/L	<0.0005	APHA 3125B 24th Edition,2023
21	COD	mg/l	<4	CPCB Guide Manual: Water & waste water Analysis
22	BOD	mg/L	<2	CPCB Guide Manual: Water & waste water Analysis
23	Total Coliforms	MPN/100ml	Absent	IS1622:1981
24	E-Coli	MPN/100ml	Absent	APHA 9221E 24th Edition,2023
25	Fecal Coliforms	MPN/100ml	Absent	IS1622:1981

EndofReport

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Reviewed by

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TEST REPORT

LAB NO.	040825N-E-004	Page No.1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	GroundWater	
Quantity	5+1 Litre	
Packing,Markings	Packedin5Litrecan&1LitreGlass bottle	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.08.2025	
Location of Sampling	Kamta Village	
Date of Receiving of sample	04.08.2025	
Period of Analysis	04.08.2025 to 09.08.2025	
Date of Reporting	09.08.2025	
Sampling Protocol	IS:17614	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	----	7.31	APHA 4500H+B 24th Edition,2023
2	Temperature	°C	24.7	APHA 2550B 24th Edition,2023
3	Conductivity	µS/cm	591.2	APHA 2120B&C 24th Edition,2023
4	Total Suspended Solid	mg/L	<5	APHA 2540D 24th Edition,2023
5	Total Dissolved Solids	mg/L	334	APHA 2540C 24th Edition,2023
6	Ca Hardness	mg/L	150	APHA 3500-CaB 24th Edition,2023
7	Mg Hardness	mg/L	75	APHA 3520-MgB 24th Edition,2023
8	Fluorides	mg/L	0.54	CPCB Guide Manual: Water & waste water Analysis
9	Copper	mg/L	<0.0005	APHA 3125B 24th Edition,2023
10	Iron	mg/L	0.0041	APHA 3125B 24th Edition,2023
11	Boron	mg/L	<0.0005	APHA 3125B 24th Edition,2023
12	Arsenic	mg/L	<0.0005	APHA 3125B 24th Edition,2023
13	Mercury	mg/L	<0.0005	APHA 3125B 24th Edition,2023
14	Manganese	mg/L	<0.0005	APHA 3125B 24th Edition,2023
15	Zinc	mg/L	0.0008	APHA 3125B 24th Edition,2023
16	Nickel	mg/L	<0.0005	APHA 3125B 24th Edition,2023

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Idma Laboratories Limited

TC-8207

TEST REPORT

LAB NO.		040825N-E-004		Page No.2/2
17	Cadmium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
18	Chromium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
19	Chromium Hexavalent		<0.05	APHA 3500CrB 24th Edition,2023
20	Lead	mg/L	<0.0005	APHA 3125B 24th Edition,2023
21	COD	mg/L	<4	CPCB Guide Manual: Water & waste water Analysis
22	BOD	mg/L	<2	CPCB Guide Manual: Water & waste water Analysis
23	Total Coliforms	MPN/100ml	Absent	IS1622:1981
24	E-Coli	MPN/100ml	Absent	APHA 9221E 24th Edition,2023
25	Fecal Coliforms	MPN/100ml	Absent	IS1622:1981

EndofReport

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Reviewed by

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TEST REPORT

LAB NO.	040825N-E-005	Page No.1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	GroundWater	
Quantity	5+1 Litre	
Packing,Markings	Packedin5Litrecan&1LitreGlass bottle	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.08.2025	
Location of Sampling	Garilaung Village	
Date of Receiving of sample	04.08.2025	
Period of Analysis	04.08.2025 to 09.08.2025	
Date of Reporting	09.08.2025	
Sampling Protocol	IS:17614	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	---	7.49	APHA 4500H+B 24th Edition,2023
2	Temperature	°C	24.6	APHA 2550B 24th Edition,2023
3	Conductivity	µS/cm	637.2	APHA 2120B&C 24th Edition,2023
4	Total Suspended Solid	mg/L	<5	APHA 2540D 24th Edition,2023
5	Total Dissolved Solids	mg/L	360	APHA 2540C 24th Edition,2023
6	Ca Hardness	mg/L	142	APHA 3500-CaB 24th Edition,2023
7	Mg Hardness	mg/L	74	APHA 3520-MgB 24th Edition,2023
8.	Fluorides	mg/L	0.63	CPCB Guide Manual: Water & waste water Analysis
9	Copper	mg/L	<0.0005	APHA 3125B 24th Edition,2023
10	Iron	mg/L	0.0065	APHA 3125B 24th Edition,2023
11	Boron	mg/L	<0.0005	APHA 3125B 24th Edition,2023
12	Arsenic	mg/L	<0.0005	APHA 3125B 24th Edition,2023
13	Mercury	mg/L	<0.0005	APHA 3125B 24th Edition,2023
14	Manganese	mg/L	<0.0005	APHA 3125B 24th Edition,2023
15	Zinc	mg/L	0.0009	APHA 3125B 24th Edition,2023

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TEST REPORT

LAB NO.		040825N-E-005		Page No.2/2
16	Nickel	mg/L	<0.0005	APHA 3125B 24th Edition,2023
17	Cadmium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
18	Chromium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
19	Chromium Hexavalent		<0.05	APHA 3500CrB 24th Edition,2023
20	Lead	mg/L	<0.0005	APHA 3125B 24th Edition,2023
21	COD	mg/L	<4	CPCB Guide Manual: Water & waste water Analysis
22	BOD	mg/L	<2	CPCB Guide Manual: Water & waste water Analysis
23	Total Coliforms	MPN/100ml	Absent	IS1622:1981
24	E-Coli	MPN/100ml	Absent	APHA 9221E 24th Edition,2023
25	Fecal Coliforms	MPN/100ml	Absent	IS1622:1981

EndofReport

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TEST REPORT

LAB NO.	040825N-E-006	Page No.1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	GroundWater	
Quantity	5+1 Litre	
Packing, Markings	PackedIn5Litrecan&1LitreGlass bottle	
Mode of collection of Sample	Samoling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.08.2025	
Location of Sampling	Tandwa Village	
Date of Receiving of sample	04.08.2025	
Period of Analysis	04.08.2025 to 09.08.2025	
Date of Reporting	09.08.2025	
Sampling Protocol	IS:17514	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	----	7.29	APHA 4500H+B 24th Edition,2023
2	Temperature	°C	24.2	APHA 2550B 24th Edition,2023
3	Conductivity	µS/cm	568.2	APHA 2120B&C 24th Edition,2023
4	Total Suspended Solid	mg/L	<5	APHA 2540D 24th Edition,2023
5	Total Dissolved Solids	mg/L	321	APHA 2540C 24th Edition,2023
6	Ca Hardness	mg/L	130	APHA 3500-CaB 24th Edition,2023
7	Mg Hardness	mg/L	72	APHA 352C-MgB 24th Edition,2023
8	Fluorides	mg/L	0.52	CPCB Guide Manual: Water & waste water Analysis
9	Copper	mg/L	<0.0005	APHA 3125B 24th Edition,2023
10	Iron	mg/L	0.0061	APHA 3125B 24th Edition,2023
11	Boron	mg/L	<0.0005	APHA 3125B 24th Edition,2023
12	Arsenic	mg/L	<0.0005	APHA 3125B 24th Edition,2023
13	Mercury	mg/L	<0.0005	APHA 3125B 24th Edition,2023
14	Manganese	mg/L	<0.0005	APHA 3125B 24th Edition,2023
15	Zinc	mg/L	0.0012	APHA 3125B 24th Edition,2023

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TEST REPORT

LAB NO.		040825N-E-006		Page No.2/2
16	Nickel	mg/L	<0.0005	APHA 3125B 24th Edition,2023
17	Cadmium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
18	Chromium	mg/L	<0.0005	APHA 3125B 24th Edition,2023
19	Chromium Hexavalent		<0.05	APHA 3500CrB 24th Edition,2023
20	Lead	mg/L	<0.0005	APHA 3125B 24th Edition,2023
21	COD	mg/L	<4	CPCB Guide Manual: Water & waste water Analysis
22	BOD	mg/L	<2	CPCB Guide Manual: Water & waste water Analysis
23	Total Coliforms	MPN/100ml	Absent	IS1622:1981
24	E-Coli	MPN/100ml	Absent	APHA 9221E 24th Edition,2023
25	Fecal Coliforms	MPN/100ml	Absent	IS1622:1981

EndofReport

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Idma Laboratories Limited

TEST REPORT

LAB NO.	071025N-E-001	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.10.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	07.10.2025	
Period of Analysis	07.10.2025 to 09.10.2025	
Date of Reporting	09.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	57.9	47.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.0	33.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.2	37.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

09/10/25

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

09/10/25

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TEST REPORT

LAB NO.	071025N-E-002	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.10.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	07.10.2025	
Period of Analysis	07.10.2025 to 09.10.2025	
Date of Reporting	09.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	72.3	59.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.1	34.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.4	37.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	071025N-E-003	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.10.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	07.10.2025	
Period of Analysis	07.10.2025 to 09.10.2025	
Date of Reporting	09.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.7	60.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.6	35.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.8	37.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

9/10/25

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	071025N-E-004	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	04.10.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	07.10.2025	
Period of Analysis	07.10.2025 to 09.10.2025	
Date of Reporting	09.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.7	59.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.3	35.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.3	37.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

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TEST REPORT

LAB NO.	071025N-E-005	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	04.10.2025	
Location of Sampling	CHP	
Date of Receiving of sample	07.10.2025	
Period of Analysis	07.10.2025 to 09.10.2025	
Date of Reporting	09.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.7	57.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.2	34.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.4	37.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	071025N-E-006	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	04.10.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	07.10.2025	
Period of Analysis	07.10.2025 to 09.10.2025	
Date of Reporting	09.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	58.6	47.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	34.3	34.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.0	36.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-001	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.10.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 16.10.2025	
Date of Reporting	16.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.8	48.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.6	33.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.2	41.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-002	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.10.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 16.10.2025	
Date of Reporting	16.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.6	58.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.1	35.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.9	41.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-003	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.10.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 16.10.2025	
Date of Reporting	16.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.4	57.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.2	35.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.1	42.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by 16/10/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	131025N-E-004	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 16.10.2025	
Date of Reporting	16.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	67.5	60.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.5	38.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.0	41.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

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TEST REPORT

LAB NO.	131025N-E-005	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	CHP	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 16.10.2025	
Date of Reporting	16.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	63.9	59.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.2	36.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.9	41.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

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TEST REPORT

LAB NO.	131025N-E-006	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 16.10.2025	
Date of Reporting	16.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.6	49.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.5	33.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.3	41.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	181025N-E-001	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.10.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	18.10.2025	
Period of Analysis	18.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	61.1	49.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.7	34.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.8	41.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	181025N-E-002	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.10.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	18.10.2025	
Period of Analysis	18.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.1	57.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	42.8	34.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	56.1	41.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	181025N-E-003	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.10.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	18.10.2025	
Period of Analysis	18.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.4	57.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	42.8	35.0	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.0	41.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	181025N-E-004	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.10.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	18.10.2025	
Period of Analysis	18.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	67.3	60.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.1	38.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.2	41.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	181025N-E-005	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.10.2025	
Location of Sampling	CHP	
Date of Receiving of sample	18.10.2025	
Period of Analysis	18.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.5	58.5	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.2	35.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.9	41.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	18102SN-E-006	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.10.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	18.10.2025	
Period of Analysis	18.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.4	48.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.1	34.3	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.2	40.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by: Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by: Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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TEST REPORT

LAB NO.	271025N-E-009	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.10.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	59.0	48.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.7	34.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.6	37.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	271025N-E-010	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.10.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	71.6	59.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.9	34.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.2	50.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

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Authorised by

30/10/25

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TEST REPORT

LAB NO.	271025N-E-011	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.10.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.1	59.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	37.0	35.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.4	49.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

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TEST REPORT

LAB NO.	271025N-E-012	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.8	59.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	41.7	35.3	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.0	50.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

30/10/25

Idma Laboratories Ltd. Kartar ... Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-013	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	CHP	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.7	59.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.1	35.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.4	48.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

30/10/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

30/10/25

Idma Laboratories Ltd. Kartar Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-014	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	58.1	47.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	34.7	33.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.9	39.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 14.11.2025	
Date of Reporting	14.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	61.2	51.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.6	33.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	49.8	38.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Dipti Jain
Asst. Tech. Manager
Idma Laboratories Ltd. Panchkula

Authorised by

Kartar Singh
Tech. Mgr.
Idma Laboratories Ltd. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 14.11.2025	
Date of Reporting	14.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	71.9	59.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.7	34.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.8	37.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed By

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	11112SN-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 14.11.2025	
Date of Reporting	14.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.1	61.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.1	35.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.5	37.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	08.11.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 14.11.2025	
Date of Reporting	14.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	67.8	61.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.1	35.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.8	37.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	111125N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	08.11.2025	
Location of Sampling	CHP	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 14.11.2025	
Date of Reporting	14.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.4	57.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.9	34.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.5	37.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

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TEST REPORT

LAB NO.	111125N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	08.11.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 14.11.2025	
Date of Reporting	14.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	59.4	48.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	34.9	34.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.6	37.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	151125N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.11.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	15.11.2025	
Period of Analysis	15.11.2025 to 18.11.2025	
Date of Reporting	18.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.4	48.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.0	34.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.6	41.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	151125N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.11.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	15.11.2025	
Period of Analysis	15.11.2025 to 18.11.2025	
Date of Reporting	18.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.8	59.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.5	35.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.4	41.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmaleb.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	151125N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.11.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	15.11.2025	
Period of Analysis	15.11.2025 to 18.11.2025	
Date of Reporting	18.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.9	58.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.9	35.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.6	42.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	151125N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.11.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	15.11.2025	
Period of Analysis	15.11.2025 to 18.11.2025	
Date of Reporting	18.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	67.8	60.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.8	39.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.3	42.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst Tech. Manager Panchkula

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TEST REPORT

LAB NO.	151125N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboretories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.11.2025	
Location of Sampling	CHP	
Date of Receiving of sample	15.11.2025	
Period of Analysis	15.11.2025 to 18.11.2025	
Date of Reporting	18.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	63.5	59.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.6	36.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.2	41.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

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TEST REPORT

LAB NO.	151125N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.11.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	15.11.2025	
Period of Analysis	15.11.2025 to 18.11.2025	
Date of Reporting	18.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	59.8	49.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.8	33.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.9	41.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	231125N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.11.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 25.11.2025	
Date of Reporting	25.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	61.8	49.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.9	34.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.4	41.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by
Idma Laboratories Ltd. Dipti Jain Asst Tech Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	231125N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.11.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 25.11.2025	
Date of Reporting	25.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.6	57.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	42.6	34.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	56.8	41.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	23112SN-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.11.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 25.11.2025	
Date of Reporting	25.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.1	57.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.5	35.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.6	41.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed By

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised By

25/11/25

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TEST REPORT

LAB NO.	231125N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.11.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 25.11.2025	
Date of Reporting	25.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	67.8	59.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.7	38.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.5	41.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

25/11/25

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Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.11.2025	
Location of Sampling	CHP	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 25.11.2025	
Date of Reporting	25.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.1	58.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.6	35.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.1	41.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

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Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.11.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 25.11.2025	
Date of Reporting	25.11.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.3	48.5	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.6	34.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.9	41.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	28112SN-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.11.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 01.12.2025	
Date of Reporting	01.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	59.5	48.5	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.9	34.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.1	37.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	281125N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.11.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 01.12.2025	
Date of Reporting	01.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	71.7	59.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	46.0	34.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.5	50.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed By

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised By

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Idma Laboratories Limited

TEST REPORT

LAB NO.	281125N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.11.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 01.12.2025	
Date of Reporting	01.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.3	59.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	37.2	35.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.9	49.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by
Deepak Jain
Asst. Tech. Manager
Idma Laboratories Ltd.
Panchkula

Authorised Signatory
Kartar Singh
Tech. Mgr.
Idma Laboratories Ltd.
Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	281125N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	25.11.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 01.12.2025	
Date of Reporting	01.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.5	59.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	41.4	35.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.1	50.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	281125N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	25.11.2025	
Location of Sampling	CHP	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 01.12.2025	
Date of Reporting	01.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.2	59.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.5	35.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.7	47.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	281125N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	25.11.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 01.12.2025	
Date of Reporting	01.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	58.5	47.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	34.7	33.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.3	40.1	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	101225N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	05.12.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.9	50.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.1	34.0	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.2	38.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	101225N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	05.12.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	72.0	60.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	46.2	35.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	62.1	38.1	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

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TEST REPORT

LAB NO.	101225N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	05.12.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.8	61.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.9	36.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.1	38.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	101225N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	06.12.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	68.3	60.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.2	35.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	62.0	38.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Divit Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kautar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	101225N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	06.12.2025	
Location of Sampling	CHP	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.1	57.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	46.2	35.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.3	37.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorized by

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TEST REPORT

LAB NO.	101225N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	06.12.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	58.9	48.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.2	34.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.8	37.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	171225N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.12.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 20.12.2025	
Date of Reporting	20.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.2	49.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.1	34.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	53.0	42.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst Tech Manager Panchkula

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TEST REPORT

LAB NO.	171225N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.12.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 20.12.2025	
Date of Reporting	20.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.0	58.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.7	35.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.6	41.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171225N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.12.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 20.12.2025	
Date of Reporting	20.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.7	58.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.0	36.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.8	42.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits In db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by 20/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Sign 20/12/25

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171225N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 20.12.2025	
Date of Reporting	20.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	68.2	60.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	46.4	38.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.0	42.1	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	171225N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	CHP	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 20.12.2025	
Date of Reporting	20.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	62.9	60.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.8	37.0	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.4	42.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

20/12/25

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

20/12/25

Authorised by

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TEST REPORT

LAB NO.	171225N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 20.12.2025	
Date of Reporting	20.12 2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.4	50.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	37.2	33.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.0	41.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by 20/12

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 20/12/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	241225N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.12.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 27.12.2025	
Date of Reporting	27.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	61.6	50.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.8	34.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.2	41.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	241225N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.12.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 27.12.2025	
Date of Reporting	27.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.0	57.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.2	34.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.1	41.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Karan Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	241225N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.12.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 27.12.2025	
Date of Reporting	27.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.6	57.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.2	35.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.4	42.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Karan Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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TEST REPORT

LAB NO.	241225N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 27.12.2025	
Date of Reporting	27.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	68.2	59.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.1	38.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.3	41.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

27/12/25

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

27/12/25

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Asst. Panchkula

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TEST REPORT

LAB NO.	241225N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	CHP	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 27.12.2025	
Date of Reporting	27.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.8	58.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.4	36.0	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.8	41.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by 27/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised 27/12/25

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TEST REPORT

LAB NO.	241225N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 27.12.2025	
Date of Reporting	27.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.1	48.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.7	35.0	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.6	41.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

27/12/25

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

27/12/25

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271225N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.12.2025	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	59.2	48.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.6	34.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.9	37.1	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	271225N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.12.2025	
Location of Sampling	Plant Gate	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	71.5	59.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.9	34.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.2	50.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	271225N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.12.2025	
Location of Sampling	Near Office Building	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.1	59.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	37.4	35.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.7	49.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by 31/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	271225N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	Service Building	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.8	58.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	41.2	35.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.6	49.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

31/12/25

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Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

31/12/25

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TEST REPORT

LAB NO.	271225N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	CHP	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	63.8	59.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.0	35.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.9	48.1	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

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Idma Laboratories Limited

TEST REPORT

LAB NO.	27122SN-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	Township Area	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	58.7	47.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.2	34.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	53.5	40.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kanta Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140126N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.01.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 17.01.2026	
Date of Reporting	17.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.6	51.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.8	34.3	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	49.9	39.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

17/01/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

17/01/26

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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TEST REPORT

LAB NO.	140126N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.01.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 17.01.2026	
Date of Reporting	17.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	71.8	60.5	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	46.4	35.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.9	38.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

17/01/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

17/01/26

Authorised by

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TEST REPORT

LAB NO.	140126N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.01.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 17.01.2026	
Date of Reporting	17.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.0	61.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.2	36.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.8	38.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech Manager Panchkula

Authorised by 17/01/26

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TEST REPORT

LAB NO.	140126N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.01.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 17.01.2026	
Date of Reporting	17.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	57.9	61.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.8	35.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.6	38.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	140126N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.01.2026	
Location of Sampling	CHP	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 17.01.2026	
Date of Reporting	17.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.4	57.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	46.0	35.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.1	38.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of report

17/01/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	140126N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.01.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 17.01.2026	
Date of Reporting	17.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	59.3	48.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.0	35.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.4	38.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by 17/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech Manager Panchkula

Authorised by 17/01/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.1	49.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.8	34.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.7	41.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by: 23/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by: 27/01/26

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TEST REPORT

LAB NO.	190126N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.6	59.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.0	36.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.2	41.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by 23/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 23/01/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.3	59.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.5	36.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.1	41.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

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Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.01.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	67.7	60.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	46.1	39.0	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.6	42.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by 23/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 23/01/26

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.01.2026	
Location of Sampling	CHP	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	63.2	60.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.1	38.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.2	43.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by: Dipti Jain, Asst. Tech. Manager, Idma Laboratories Ltd., Panchkula

Authorised by: Kartar Singh, Tech. Mgr., Idma Laboratories Ltd., Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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LAB NO.	190126N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.01.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.8	50.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	37.5	34.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.4	42.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

23/01/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

23/01/26.

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.01.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	62.0	50.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	38.4	35.0	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.9	41.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

30/01/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

30/1/26.

Authorised by

Idma Laboratories Ltd. Kartar [illegible] Tech. Mgr. Panchkula

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LAB NO.	270126N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.01.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.7	57.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.6	35.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.5	43.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

30/01/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

30/01/26

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.01.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.0	58.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.2	39.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.1	44.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

30/01/26

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Idma Laboratories Ltd. Dipti Jain Asst. Test Manager Panchkula

30/01/26.

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Idma Laboratories Ltd. Kanur Singh Tech. Mgr. Panchkula

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Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	68.0	60.5	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.6	38.3	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.1	41.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

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30/01/26

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LAB NO.	270126N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	CHP	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.1	59.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.3	37.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.6	42.1	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

30/01/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

30/01/26

Authorised Signatory

Idma Laboratories Ltd. Kamal Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.7	49.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.5	35.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.1	41.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by 30/1/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 30/01/26

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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TEST REPORT

LAB NO.	310126N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	-	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	27.01.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 02.02.2026	
Date of Reporting	02.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	58.6	48.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.3	34.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.6	37.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

02/02/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

02/02/26

Authorised by

Idma Laboratories Ltd. Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	27.01.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 02.02.2026	
Date of Reporting	02.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	71.8	60.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	46.1	35.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.0	51.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	27.01.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 02.02.2026	
Date of Reporting	02.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.9	60.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	37.6	36.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.2	49.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Tech. Mgr. Panchkula

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TEST REPORT

LAB NO.	310126N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	28.01.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 02.02.2026	
Date of Reporting	02.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.2	60.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	41.6	37.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.2	49.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

02/02/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	28.01.2026	
Location of Sampling	CHP	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 02.02.2026	
Date of Reporting	02.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.4	60.5	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.6	36.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.3	48.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

02/02/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	28.01.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 02.02.2026	
Date of Reporting	02.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	58.5	48.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.9	35.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	53.8	40.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

02/02/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

2/2/26.

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	060226N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.02.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.8	50.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.1	34.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.2	39.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

10/2/26

Idma Laboratories Ltd. Kartar ... Tech. Mgt. Panchkula

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LAB NO.	060226N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.02.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	72.1	60.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	46.6	36.3	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	62.2	38.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

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TEST REPORT

LAB NO.	060226N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.02.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.7	61.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.9	37.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.2	39.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	060226N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.02.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	68.1	60.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.2	35.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.4	37.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

10/02/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

10/2/26.

Authorised by

Idma Laboratories Ltd. Kamar Tech. Mgr. Panchkula

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LAB NO.	060226N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.02.2026	
Location of Sampling	CHP	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.7	58.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.2	36.0	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.5	38.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

10/02/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

10/2/26

Authorised by

Idma Laboratories Ltd. Kanlar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Haryana (India)

Tel No. 0172 - 5064627,- 5064630

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	060226N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.02.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	58.8	49.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.1	35.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.6	38.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by
Idma Laboratories Ltd. Dipti Jain Asst. Test Manager Panchkula

Authorised by
Idma Laboratories Ltd. Tech. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Haryana (India)

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	59.4	49.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.5	35.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.2	42.1	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

18/02/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

18/02/26

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.3	59.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.1	37.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.6	42.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

18/2/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

18/2/26.

Authorised by

Idma Laboratories Ltd. Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.8	58.5	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.7	36.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.9	41.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

18/02/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

18/2/26.

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.02.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	68.0	59.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	47.2	38.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.4	42.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

18/02/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.02.2026	
Location of Sampling	CHP	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	62.5	60.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.7	38.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.6	43.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsIndb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 18/2/26

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TEST REPORT

LAB NO.	140226N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.02.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	60.5	50.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	37.4	34.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.2	41.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kamal Singh Tech. Mgr. Panchkula

18/2/26

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	200226N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	16.02.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 24.02.2026	
Date of Reporting	24.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	61.6	50.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	37.8	34.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.5	41.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by 24/02/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 24/02/26

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TEST REPORT

LAB NO.	200226N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	16.02.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 24.02.2026	
Date of Reporting	24.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.3	57.5	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.2	35.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.3	43.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by: 24/02/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by:

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TEST REPORT

LAB NO.	200226N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	16.02.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 24.02.2026	
Date of Reporting	24.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.3	57.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.0	38.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.7	44.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar ... Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	200226N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	17.02.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 24.02.2026	
Date of Reporting	24.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	67.7	60.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.4	38.0	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.6	41.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

24/02/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 24/02/26

Idma Laboratories Ltd. Karan Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	200226N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	17.02.2026	
Location of Sampling	CHP	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 24.02.2026	
Date of Reporting	24.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.6	58.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.0	37.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.5	41.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	200226N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	17.02.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 24.02.2026	
Date of Reporting	24.02.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	61.0	49.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.7	35.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.4	41.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 24/02/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270226N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.02.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	58.9	49.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.6	34.7	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.8	37.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 02/03/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270226N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.02.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	71.6	60.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.7	36.3	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.8	51.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsIndb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

02/03/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

02/03/26.

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270226N-E-411	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.02.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	66.2	60.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	38.1	36.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.9	49.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

02/03/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 02/03/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270226N-E-412	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	65.5	59.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	42.1	37.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.4	50.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

02/03/26

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Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

01/03/26

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TEST REPORT

LAB NO.	270226N-E-413	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	CHP	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	64.1	60.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.2	36.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.1	48.1	db(A)	CPCB PROTOCOL JULY 2015
4	CPCBLimitsindb(A) Leq(Industrial Area)	Max. 75	Max. 70	db(A)	

End of Report

02/03/26

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TEST REPORT

LAB NO.	270226N-E-414	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing,Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00A.M to 10:00P.M)	Night Time (10:00P.M to 06:00A.M)		
1	Lmax	58.7	47.8	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.3	34.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	53.6	40.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq(Residential Area)	Max. 55	Max. 45	db(A)	

End of Report

02/03/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

02/03/26

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	070326N-E-409	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.03.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 10.03.2026	
Date of Reporting	10.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	61.3	51.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.8	35.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.0	39.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Residential Area)	Max.55	Max.45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	070326N-E-410	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.03.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 10.03.2026	
Date of Reporting	10.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	71.9	60.5	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	46.4	35.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.8	38.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	070326N-E-411	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.03.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 10.03.2026	
Date of Reporting	10.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	65.2	62.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.1	37.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.4	40.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

Reviewed by

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TEST REPORT

LAB NO.	070326N-E-412	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.03.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 10.03.2026	
Date of Reporting	10.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	68.3	61.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.5	35.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	61.6	38.1	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

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TEST REPORT

LAB NO.	070326N-E-413	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.03.2026	
Location of Sampling	CHP	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 10.03.2026	
Date of Reporting	10.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	64.9	58.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.5	36.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.3	38.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

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TEST REPORT

LAB NO.	070326N-E-414	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.03.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 10.03.2026	
Date of Reporting	10.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	58.6	49.4	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.7	36.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.5	38.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Residential Area)	Max.55	Max.45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	180326N-E-409	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.03.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 20.03.2026	
Date of Reporting	20.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	59.7	49.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.1	35.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	52.5	41.8	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Residential Area)	Max.55	Max.45	db(A)	

End of Report

Reviewed by 20/3/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech Manager Panchkula

Authorised by 20/3/26

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TEST REPORT

LAB NO.	180326N-E-410	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.03.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 20.03.2026	
Date of Reporting	20.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	64.9	59.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	42.8	37.4	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.3	41.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

Reviewed by

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TEST REPORT

LAB NO.	180326N-E-411	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.03.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 20.03.2026	
Date of Reporting	20.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	66.0	58.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.1	36.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.5	41.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

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TEST REPORT

LAB NO.	180326N-E-412	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 20.03.2026	
Date of Reporting	20.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	68.2	59.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	47.5	38.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.1	41.7	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

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TEST REPORT

LAB NO.	180326N-E-413	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	CHP	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 20.03.2026	
Date of Reporting	20.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	62.1	60.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.5	38.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.4	42.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits In db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	180326N-E-414	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 20.03.2026	
Date of Reporting	20.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	60.2	50.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	37.7	35.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.0	41.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Residential Area)	Max.55	Max.45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorized by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	Z30326N-E-409	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	18.03.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 25.03.2026	
Date of Reporting	25.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	61.4	50.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	38.0	34.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.3	41.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Residential Area)	Max 55	Max.45	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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TEST REPORT

LAB NO.	230326N-E-410	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	18.03.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 25.03.2026	
Date of Reporting	25.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	64.9	57.6	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	43.4	35.2	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	57.1	43.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

Reviewed by

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TEST REPORT

LAB NO.	Z30326N-E-411	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	18.03.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 25.03.2026	
Date of Reporting	25.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	66.1	57.3	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.5	38.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.4	44.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

Reviewed by 25/3/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	230326N-E-412	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.03.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 25.03.2026	
Date of Reporting	25.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	68.1	60.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.7	38.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.2	41.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

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TEST REPORT

LAB NO.	230326N-E-413	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.03.2026	
Location of Sampling	CHP	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 25.03.2026	
Date of Reporting	25.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	65.3	58.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.6	36.9	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.2	41.5	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

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TEST REPORT

LAB NO.	230326N-E-414	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.03.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 25.03.2026	
Date of Reporting	25.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	61.3	49.0	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.8	35.3	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	51.1	41.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Residential Area)	Max.55	Max.45	db(A)	

End of Report

Reviewed by 25/3/26

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TEST REPORT

LAB NO.	270326N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.03.2026	
Location of Sampling	Surrounding Village	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 30.03.2026	
Date of Reporting	30.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	59.1	49.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	35.9	34.5	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	50.6	37.4	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Residential Area)	Max.55	Max.45	db(A)	

End of Report

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	Z70326N-E-410	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.03.2026	
Location of Sampling	Plant Gate	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 30.03.2026	
Date of Reporting	30.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	71.9	59.9	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	45.6	36.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.4	51.2	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270326N-E-411	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.03.2026	
Location of Sampling	Near Office Building	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 30.03.2026	
Date of Reporting	30.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	66.5	60.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	38.3	37.1	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	58.6	49.9	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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TEST REPORT

LAB NO.	270326N-E-412	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.03.2026	
Location of Sampling	Service Building	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 30.03.2026	
Date of Reporting	30.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	65.1	59.7	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	42.5	37.6	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	60.2	50.0	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	270326N-E-413	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.03.2026	
Location of Sampling	CHP	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 30.03.2026	
Date of Reporting	30.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	64.4	60.2	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	44.8	36.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	59.3	48.3	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Industrial Area)	Max.75	Max.70	db(A)	

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	270326N-E-414	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Noise	
Quantity	1	
Packing, Markings	Instrument at site.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.03.2026	
Location of Sampling	Township Area	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 30.03.2026	
Date of Reporting	30.03.2026	
Sampling Protocol	CPCB PROTOCOL JULY 2015	
Testing Protocol	CPCB PROTOCOL JULY 2015	

S.No.	Test Parameters	Results		UNITS	Test Method
		Day Time (06:00 A.M to 10:00 P.M)	Night Time (10:00 P.M to 06:00 A.M)		
1	Lmax	58.9	48.1	db(A)	CPCB PROTOCOL JULY 2015
2	Lmin	36.8	34.8	db(A)	CPCB PROTOCOL JULY 2015
3	Leq	53.4	40.6	db(A)	CPCB PROTOCOL JULY 2015
4	CPCB Limits in db(A) Leq (Residential Area)	Max.55	Max.45	db(A)	

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Reviewed by

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TEST REPORT

LAB NO.	081025N-E-001	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.10.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	08.10.2025	
Period of Analysis	08.10.2025 to 11.10.2025	
Date of Reporting	11.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	67.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.05	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	22.96	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.28	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.58	0.57	0.58	0.58	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.8	19.2	18.6	18.87	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	081025N-E-002	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed In Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.10.2025	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	08.10.2025	
Period of Analysis	08.10.2025 to 11.10.2025	
Date of Reporting	11.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.62	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.51	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.56	0.57	0.55	0.56	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.1	18.4	18.6	18.37	Max. 180	NAAQMS/36/2012-13

"EndofReport"

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Idma Laboratories Ltd. Dipti Jain Lab Tech. Manager Panchkula

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TEST REPORT

LAB NO.	081025N-E-003	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Fliter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.10.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	08.10.2025	
Period of Analysis	08.10.2025 to 11.10.2025	
Date of Reporting	11.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.12	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.24	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.34	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.39	0.41	0.42	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.3	18.8	18.5	18.53	Max. 180	NAAQMS/36/2012-13

Reviewed by

EndofReport

Authorised Signatory

Dipti Jain
Asst. Act. Manager

Kartar Singh
Tech. Mgr.

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TEST REPORT

LAB NO.	081025N-E-004	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.10.2025	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	08.10.2025	
Period of Analysis	08.10.2025 to 11.10.2025	
Date of Reporting	11.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	71.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.95	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.06	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.38	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.47	0.48	0.49	0.48	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.2	18.5	18.7	18.47	Max. 180	NAAQMS/36/2012-13

Reviewed by

EndofReport

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Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	08102SN-E-005	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	04.10.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	08.10.2025	
Period of Analysis	08.10.2025 to 11.10.2025	
Date of Reporting	11.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.02	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.81	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.29	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.55	0.54	0.55	0.55	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.6	18.8	19.1	18.83	Max. 180	NAAQMS/36/2012-13

EndofReport

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	081025N-E-006	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	04.10.2025	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	08.10.2025	
Period of Analysis	08.10.2025 to 11.10.2025	
Date of Reporting	11.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.25	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.14	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.4	0.41	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.3	18.9	18.7	18.63	Max. 180	NAAQMS/36/2012-13

Reviewed by

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TEST REPORT

LAB NO.	081025N-E-007	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	04.10.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	08.10.2025	
Period of Analysis	08.10.2025 to 11.10.2025	
Date of Reporting	11.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	56.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.1	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.35	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.41	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.22	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.48	0.49	0.49	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.5	19.1	18.6	18.73	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	081025N-E-008	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	04.10.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	08.10.2025	
Period of Analysis	08.10.2025 to 11.10.2025	
Date of Reporting	11.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	62.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.32	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.54	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.28	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.46	0.47	0.47	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18	18.8	18.5	18.43	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	141025N-E-001	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.10.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	14.10.2025	
Period of Analysis	14.10.2025 to 18.10.2025	
Date of Reporting	18.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.3	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.52	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.94	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.27	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.56	0.55	0.56	0.56	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.2	18.6	18.8	18.53	Max. 180	NAAQMS/36/2012-13

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	141025N-E-002	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.10.2025	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	14.10.2025	
Period of Analysis	14.10.2025 to 18.10.2025	
Date of Reporting	18.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	59.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.11	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.03	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.26	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.55	0.54	0.53	0.54	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.4	18.8	18.6	18.60	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	14102SN-E-003	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.10.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	14.10.2025	
Period of Analysis	14.10.2025 to 18.10.2025	
Date of Reporting	18.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	67.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.1	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.65	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.45	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.39	0.42	0.41	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.2	18.5	18.3	18.33	Max. 180	NAAQMS/36/2012-13

Reviewed by

EndofReport

Authorised Signatory

Idma Laboratories Ltd. Dipti Jamwal Lab Manager Panchkula

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	141025N-E-004	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.10.2025	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	14.10.2025	
Period of Analysis	14.10.2025 to 18.10.2025	
Date of Reporting	18.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	70.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.15	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.24	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.32	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.46	0.48	0.47	0.47	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.7	19.2	18.8	18.90	Max. 180	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

LAB NO.	141025N-E-005	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	14.10.2025	
Period of Analysis	14.10.2025 to 18.10.2025	
Date of Reporting	18.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	59.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.05	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.13	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.23	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.49	0.48	0.49	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.7	18.9	18.5	18.70	Max. 180	NAAQMS/36/2012-13

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	141025N-E-006	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	14.10.2025	
Period of Analysis	14.10.2025 to 18.10.2025	
Date of Reporting	18.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	64.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.3	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.11	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.27	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.23	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.54	0.52	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.6	18.5	18.6	18.57	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	141025N-E-007	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	14.10.2025	
Period of Analysis	14.10.2025 to 18.10.2025	
Date of Reporting	18.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	68.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.95	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.91	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.26	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.52	0.53	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.5	19.3	18.8	18.87	Max. 180	NAAQMS/36/2012-13

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	141025N-E-008	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Fliter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	14.10.2025	
Period of Analysis	14.10.2025 to 18.10.2025	
Date of Reporting	18.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	66.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.05	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.15	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.42	0.44	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.8	19.6	18.8	19.07	Max. 180	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171025N-E-001	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.10.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	17.10.2025	
Period of Analysis	17.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	61.6	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.95	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.71	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.3	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.54	0.53	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.5	18.8	18.6	18.63	Max. 180	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171025N-E-002	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.10.2025	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	17.10.2025	
Period of Analysis	17.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.6	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.26	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.45	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.27	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.54	0.52	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.4	18.1	18.8	18.43	Max. 180	NAAQMS/36/2012-13

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171025N-E-003	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.10.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	17.10.2025	
Period of Analysis	17.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	67.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.12	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.29	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.28	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.42	0.43	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.3	18.5	18.2	18.33	Max. 180	NAAQMS/36/2012-13

Reviewedby

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171025N-E-004	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.10.2025	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	17.10.2025	
Period of Analysis	17.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.86	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.15	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.23	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.49	0.51	0.49	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.3	18.7	18.9	18.63	Max. 180	NAAQMS/36/2012-13

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	171025N-E-005	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.10.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	17.10.2025	
Period of Analysis	17.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	58.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.19	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.45	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.19	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.51	0.48	0.49	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.4	19	18.2	18.53	Max. 180	NAAQMS/36/2012-13

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171025N-E-006	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.10.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	17.10.2025	
Period of Analysis	17.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	67.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.15	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.14	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	9.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.22	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.54	0.52	0.53	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.2	18.6	18.4	18.40	Max. 180	NAAQMS/36/2012-13

24/10/25
Reviewedby

Idma Laboratories Ltd Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	171025N-E-007	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.10.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	17.10.2025	
Period of Analysis	17.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	61.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.8	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.56	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.82	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.52	0.54	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.3	19.6	18.7	18.87	Max. 180	NAAQMS/36/2012-13

Reviewedby

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171025N-E-008	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.10.2025	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	17.10.2025	
Period of Analysis	17.10.2025 to 24.10.2025	
Date of Reporting	24.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.3	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.14	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.65	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.22	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.44	0.42	0.45	0.44	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.8	19.2	18.6	18.87	Max. 180	NAAQMS/36/2012-13

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-001	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	22.10.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	27.10.2025	
Period ofAnalysis	27.10.2025 to 30.10.2025	
Dateof Reporting	30.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	66.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.06	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.64	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.57	0.55	0.56	0.56	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.4	18.9	18.6	18.63	Max. 180	NAAQMS/36/2012-13

Reviewed by

End of Report

Authorised Signatory

Idma Laboratories Ltd. Dipti Jain Technical Manager Panchkula

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-002	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.10.2025	
Location of Sampling	ETS [Township]	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.95	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.53	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<3.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.54	0.53	0.55	0.54	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.1	18.7	18.4	18.40	Max. 180	NAAQMS/36/2012-13

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Reviewed by

Idma Laboratories Limited
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Haryana (India)
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Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Ltd. Kanwar Singh Tech. Mgr. Panchkula

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TEST REPORT

LAB NO.	271025N-E-003	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.10.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.3	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.14	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.35	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.27	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.46	0.44	0.45	0.45	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.3	18.8	18.7	18.60	Max. 180	NAAQMS/36/2012-13

30/10/25

Reviewedby

Idma Laboratories Ltd. Dipu Jain Lab Incharge Panchkula

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TEST REPORT

LAB NO.	271025N-E-004	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.10.2025	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.62	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.87	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	9.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.32	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.53	0.51	0.54	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.4	18.6	18.2	18.40	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	271025N-E-005	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	58.6	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	19.02	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	21.23	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.22	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.55	0.54	0.55	0.55	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.3	18.6	18.1	18.33	Max. 180	NAAQMS/36/2012-13

30/10/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-006	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.46	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.71	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.47	0.45	0.48	0.47	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.6	18.4	18.8	18.60	Max. 180	NAAQMS/36/2012-13

30/10/25

Reviewed by

EndofReport

Authorised Signator

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-007	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.53	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.64	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.23	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.57	0.55	0.56	0.56	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.8	18.5	18.9	18.73	Max. 180	NAAQMS/36/2012-13

30/10/2025

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Technical Manager Panchkula

EndofReport

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-008	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	66.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.95	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.32	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.26	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8 hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.52	0.51	0.52	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.2	18.6	18.6	18.47	Max. 180	NAAQMS/36/2012-13

30/10/25

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 15.11.2025	
Date of Reporting	15.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.26	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.4	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_2H_6	$\mu g/m^3$	0.38	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.39	0.42	0.44	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.5	18.8	18.56	18.63	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-402	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	07.11.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	11.11.2025	
Period ofAnalysis	11.11.2025 to 15.11.2025	
Dateof Reporting	15.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	68	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.1	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.2	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	22.8	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.57	0.53	0.56	0.55	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.9	19.2	18.61	18.90	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewedby

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 15.11.2025	
Date of Reporting	15.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	71.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.8	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.91	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.6	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.36	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.47	0.45	0.48	0.47	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.3	18.5	18.71	18.50	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	ETS(Township)	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 15.11.2025	
Date of Reporting	15.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	61.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.68	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.55	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.29	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.57	0.56	0.53	0.55	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.2	18.5	18.66	18.44	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Limited
Dipti Jain
Asst. Tech. Manager

Authorised Signatory

Idma Laboratories Ltd.
Kartar Singh
Tech. Mgr.
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TEST REPORT

LAB NO.	111125N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	08.11.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 15.11.2025	
Date of Reporting	15.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	62.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.4	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.58	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.47	0.49	0.48	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.09	18.75	18.51	18.45	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	111125N-E-406	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	08.11.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	11.11.2025	
Period ofAnalysis	11.11.2025 to 15.11.2025	
Dateof Reporting	15.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.1	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.84	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.22	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.53	0.51	0.54	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.67	18.81	19.13	18.87	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-407	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	08.11.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	11.11.2025	
Period ofAnalysis	11.11.2025 to 15.11.2025	
Dateof Reporting	15.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.1	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.36	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.17	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.23	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.43	0.41	0.42	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.33	18.94	18.82	18.70	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

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Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-408	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	08.11.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	11.11.2025	
Period ofAnalysis	11.11.2025 to 15.11.2025	
Dateof Reporting	15.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	56.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.8	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.52	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.51	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.26	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.45	0.47	0.47	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.54	19.17	18.66	18.79	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	151125N-E-401	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	11.11.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	15.11.2025	
Period ofAnalysis	15.11.2025 to 19.11.2025	
Dateof Reporting	19.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	67.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.8	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.57	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.41	0.43	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.54	18.51	18.34	18.46	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	151125N-E-402	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	11.11.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	15.11.2025	
Period ofAnalysis	15.11.2025 to 19.11.2025	
Dateof Reporting	19.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.55	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.89	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.53	0.53	0.52	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.29	18.61	18.83	18.58	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

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Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	151125N-E-403	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	11.11.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	15.11.2025	
Period ofAnalysis	15.11.2025 to 19.11.2025	
Dateof Reporting	19.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	71.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.1	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.23	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.3	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.31	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.46	0.49	0.45	0.47	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.82	19.23	18.87	18.97	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	1S112SN-E-404	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	11.11.2025	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	15.11.2025	
Period ofAnalysis	15.11.2025 to 19.11.2025	
Dateof Reporting	19.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	59.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.15	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.12	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.22	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.55	0.57	0.56	0.56	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.43	18.82	18.71	18.65	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Tel No: 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	15112SN-E-405	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	12.11.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	15.11.2025	
Period ofAnalysis	15.11.2025 to 19.11.2025	
Dateof Reporting	19.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	64.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.19	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.34	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.26	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.53	0.52	0.54	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.65	18.51	18.63	18.60	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	151125N-E-406	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	12.11.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	15.11.2025	
Period ofAnalysis	15.11.2025 to 19.11.2025	
Dateof Reporting	19.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.88	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.95	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.5	0.53	0.55	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.55	19.34	18.87	18.92	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.		15112SN-E-407					Page No. 1/1
Customer		M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing,Markings		Filter Paper packed in Polythene Pouch					
Modeof collectionofSample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Dateof Sampling		12.11.2025					
Location of Sampling		Switch Yard(Main Plant)					
Date of Receiving of sample		15.11.2025					
Period ofAnalysis		15.11.2025 to 19.11.2025					
Dateof Reporting		19.11.2025					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	$\mu g/m^3$	66.3				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.5				Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.12				Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.3				Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0				Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21				Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.42	0.43	0.45	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.89	19.63	18.85	19.12	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar S... Tech. Dept. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	151125N-E-408	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	12.11.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	15.11.2025	
Period ofAnalysis	15.11.2025 to 19.11.2025	
Dateof Reporting	19.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	59.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.1	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.2	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.47	0.46	0.47	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.71	18.93	18.82	18.82	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by 19/11/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.		231125N-E-401					Page No. 1/1
Customer		M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing,Markings		Filter Paper packed in Polythene Pouch					
Modeof collectionofSample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Dateof Sampling		19.11.2025					
Location of Sampling		Time Office(Main Plant)					
Date of Receiving of sample		23.11.2025					
Period ofAnalysis		23.11.2025 to 27.11.2025					
Dateof Reporting		27.11.2025					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	µg/m³	67.8				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	31.9				Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	18.17				Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	20.31				Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	µg/m³	8.6				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0				Max. 6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.12				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0				Max. 20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1				.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.27				Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.43	0.43	0.45	0.44	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	µg/m³	18.34	18.52	18.23	18.36	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by 29/11/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	231125N-E-402	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	19.11.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	23.11.2025	
Period ofAnalysis	23.11.2025 to 27.11.2025	
Dateof Reporting	27.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	61.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.12	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.94	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.23	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.56	0.52	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.52	18.85	18.63	18.67	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	231125N-E-403	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	19.11.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	23.11.2025	
Period ofAnalysis	23.11.2025 to 27.11.2025	
Dateof Reporting	27.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.84	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.21	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.46	0.47	0.51	0.48	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.32	18.75	18.87	18.65	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	231125N-E-404	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	19.11.2025	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	23.11.2025	
Period ofAnalysis	23.11.2025 to 27.11.2025	
Dateof Reporting	27.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.63	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.51	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.28	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.52	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.2	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.55	0.56	0.54	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.42	18.13	18.86	18.47	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech Manager Panchkula

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	231125N-E-405	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	20.11.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	23.11.2025	
Period ofAnalysis	23.11.2025 to 27.11.2025	
Dateof Reporting	27.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	67.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.15	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.14	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	9.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.22	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.54	0.52	0.53	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.20	18.60	18.40	18.40	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Karlar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.		231125N-E-407					Page No. 1/1
Customer		M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing,Markings		Filter Paper packed in Polythene Pouch					
Modeof collectionofSample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Dateof Sampling		20.11.2025					
Location of Sampling		Switch Yard(Main Plant)					
Date of Receiving of sample		23.11.2025					
Period ofAnalysis		23.11.2025 to 27.11.2025					
Dateof Reporting		27.11.2025					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	µg/m³	70.2				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	33.1				Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	18.2				Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	20.71				Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	µg/m³	8.7				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0				Max. 6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.14				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0				Max. 20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1				.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.27				Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.47	0.43	0.48	0.46	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	µg/m³	18.72	19.28	18.69	18.90	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by 27/11

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory 27/11/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	231125N-E-408	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	20.11.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	23.11.2025	
Period ofAnalysis	23.11.2025 to 27.11.2025	
Dateof Reporting	27.11.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	58.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.24	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.55	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.47	0.49	0.51	0.49	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.45	19.07	18.24	18.59	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by 27/11/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	281125N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.11.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 02.12.2025	
Date of Reporting	02.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.3	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.14	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.35	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.27	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.46	0.44	0.45	0.45	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.3	18.8	18.7	18.60	Max. 180	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

LAB NO.	281125N-E-402	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Modeof collectionofSample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Dateof Sampling	24.11.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	28.11.2025	
Period ofAnalysis	28.11.2025 to 02.12.2025	
Dateof Reporting	02.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	66.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.06	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.64	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.57	0.55	0.56	0.56	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.4	18.9	18.6	18.63	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	281125N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.11.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 02.12.2025	
Date of Reporting	02.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.62	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.87	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	9.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.32	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.53	0.51	0.54	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.4	18.6	18.2	18.40	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by 02/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	281125N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.11.2025	
Location of Sampling	ETS(Township)	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 02.12.2025	
Date of Reporting	02.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.95	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.53	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.54	0.53	0.55	0.54	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.1	18.7	18.4	18.40	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by: 02/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory:

Idma Laboratories Ltd. Kanar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.		28112SN-E-405					Page No.1/1
Customer		M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing,Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		25.11.2025					
Location of Sampling		Time Office(Main Plant)					
Date of Receiving of sample		28.11.2025					
Period of Analysis		28.11.2025 to 02.12.2025					
Date of Reporting		02.12.2025					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	$\mu g/m^3$	67.2				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.1				Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.84				Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.33				Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0				Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25				Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.56	0.52	0.54	0.54	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.2	18.7	18.68	18.53	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	281125N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	25.11.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 02.12.2025	
Date of Reporting	02.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	58.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.92	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	21.28	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.23	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.56	0.55	0.56	0.56	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.4	18.7	18.09	18.41	Max. 180	NAAQMS/36/2012-13

02/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	281125N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	25.11.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 02.12.2025	
Date of Reporting	02.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.5	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.76	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.47	0.48	0.49	0.48	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.6	18.4	18.82	18.62	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	281125N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	25.11.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	28.11.2025	
Period of Analysis	28.11.2025 to 02.12.2025	
Date of Reporting	02.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.45	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.44	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.63	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.54	0.52	0.53	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone(O_3)	$\mu g/m^3$	18.9	18.5	18.95	18.77	Max. 180	NAAQMS/36/2012-13

Idma Laboratories Ltd. Dipti Jain Asst. Tech Manager Panchkula

Idma Laboratories Ltd. Kanhar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	101225N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	05.12.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.17	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.22	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.35	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.37	0.41	0.38	0.39	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.9	18.4	18	18.10	Max. 180	NAAQMS/36/2012-13

EndofReport

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Idma Laboratories Limited

TEST REPORT

LAB NO.	101225N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	05.12.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.14	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	21.65	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.27	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.52	0.51	0.53	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.4	18.8	18.3	18.50	Max. 180	NAAQMS/36/2012-13

EndofReport

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Idma Laboratories Limited

TEST REPORT

LAB NO.	10122SN-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	05.12.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	68.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.02	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.46	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.39	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.46	0.44	0.45	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18	18.7	18.2	18.30	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	101225N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Reoresentative	
Date of Sampling	05.12.2025	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.8	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.75	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.48	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.55	0.53	0.54	0.54	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.9	18.5	18	18.13	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	101225N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	06.12.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.32	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.47	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.27	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.46	0.44	0.45	0.45	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.70	18.60	17.90	18.07	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	101225N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	06.12.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	61.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.24	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.62	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.52	0.51	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.00	18.80	18.20	18.33	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	101225N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Samole	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	06.12.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	62.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.41	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.23	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.42	0.39	0.41	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.86	18.70	18.21	18.26	Max. 180	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

LAB NO.	101225N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	06.12.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	10.12.2025	
Period of Analysis	10.12.2025 to 15.12.2025	
Date of Reporting	15.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	58.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.19	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.09	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.19	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.47	0.46	0.46	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.00	18.90	18.74	18.55	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Reviewed by

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171225N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.12.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 22.12.2025	
Date of Reporting	22.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.72	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.44	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.3	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.43	0.42	0.41	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.90	18.60	17.76	18.09	Max. 180	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171225N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed In Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.12.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 22.12.2025	
Date of Reporting	22.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	62.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.46	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.64	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.53	0.52	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.92	18.54	18.03	18.16	Max. 180	NAAQMS/36/2012-13

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Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Act. Manager

Reviewed by

Idma Laboratories Ltd. Kartar C. Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171225N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.12.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 22.12.2025	
Date of Reporting	22.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.12	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.25	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.28	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.48	0.46	0.46	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.15	18.66	17.82	18.21	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	171225N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed In Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.12.2025	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 22.12.2025	
Date of Reporting	22.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	57.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	28.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	16.92	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	18.75	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.3	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.17	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.53	0.52	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.93	18.45	17.81	18.06	Max. 180	NAAQMS/36/2012-13

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Authorised by

Idma Laboratories Limited, Dipti Jain, Asst. Tech. Manager, Panchkula

Reviewed by

Idma Laboratories Limited, Kartar Singh, Tech. Mgr., Panchkula

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TEST REPORT

LAB NO.	171225N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 22.12.2025	
Date of Reporting	22.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	62.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.8	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.02	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.17	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.51	0.53	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.85	18.74	18.23	18.27	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Dipti Jain
Asst. Tech. Manager

Reviewed by

Kartar Singh
Tech. Mgr.

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TEST REPORT

LAB NO.	171225N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 22.12.2025	
Date of Reporting	22.12.2025	
Samoling Protocol	NAAQMS/36/2012 13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	68.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.62	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.51	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	ug/m^3	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.22	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.53	0.52	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.06	18.61	17.73	18.13	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 22/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager

Reviewed by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171225N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 22.12.2025	
Date of Reporting	22.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.05	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.13	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.18	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.39	0.41	0.43	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.89	18.38	18.05	18.11	Max. 180	NAAQMS/36/2012-13

EndofReport

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Idma Laboratories Limited

TEST REPORT

LAB NO.	171225N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	17.12.2025	
Period of Analysis	17.12.2025 to 22.12.2025	
Date of Reporting	22.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	58.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.85	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.92	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.19	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.46	0.45	0.46	0.46	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.83	18.52	17.95	18.10	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	241225N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.12.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 29.12.2025	
Date of Reporting	29.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	ug/m^3	65.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.96	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.81	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	ug/m^3	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.42	0.43	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.65	18.45	17.79	17.96	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Mgr. Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	241225N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.12.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 29.12.2025	
Date of Reporting	29.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.6	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.1	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.89	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.48	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.17	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.53	0.51	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.23	18.72	18.14	18.36	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 29/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	241225N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.12.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 29.12.2025	
Date of Reporting	29.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.8	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.93	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.15	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.44	0.46	0.47	0.46	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.98	18.63	18.09	18.23	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

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Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	241225N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.12.2025	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 29.12.2025	
Date of Reporting	29.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	59.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.15	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.38	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.51	0.46	0.48	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.24	18.71	18.33	18.43	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

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Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 29.12.2025	
Date of Reporting	29.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.01	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.12	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.55	0.54	0.52	0.54	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.06	18.75	18.17	18.33	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	241225N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 29.12.2025	
Date of Reporting	29.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	59.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.07	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.36	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.18	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.53	0.51	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.91	18.65	18.09	18.22	Max. 180	NAAQMS/36/2012-13

End Of Report

Authorised by

Idma Laboratories Ltd. Digvi Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	241225N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 29.12.2025	
Date of Reporting	29.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	68.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.12	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.56	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.21	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.42	0.46	0.44	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.03	18.87	18.32	18.41	Max. 180	NAAQMS/36/2012-13

EndofReport

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Idma Laboratories Limited

TEST REPORT

LAB NO.	24122SN-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	24.12.2025	
Period of Analysis	24.12.2025 to 29.12.2025	
Date of Reporting	29.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	55.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	28.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.93	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.15	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.19	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.44	0.41	0.45	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.86	18.64	18.17	18.22	Max. 180	NAAQMS/36/2012-13

EndofReport

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271225N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.12.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.02	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.23	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.42	0.44	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.85	18.92	18.22	18.33	Max. 180	NAAQMS/36/2012-13

EndofReport

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271225N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.12.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	59.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.84	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.49	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.2	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.17	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.52	0.49	0.50	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.08	18.71	18.42	18.40	Max. 180	NAAQMS/36/2012-13

EndofReport

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271225N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.12.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of samole	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	66.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.03	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.16	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.22	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.44	0.46	0.45	0.45	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.65	18.54	17.84	18.01	Max. 180	NAAQMS/36/2012-13

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Tel No. 0172 - 5064827,- 5064830

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Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	2712Z5N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed In Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	22.12.2025	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	58.6	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.1	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.36	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.47	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.18	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.45	0.49	0.48	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.71	18.56	18.05	18.11	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 31/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271225N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.23	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.31	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.52	0.51	0.53	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.79	18.58	18.19	18.19	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 31/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271225N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.19	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.55	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.2	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.2	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.47	0.52	0.49	0.49	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.83	18.75	17.95	18.18	Max. 180	NAAQMS/36/2012-13

EndofReport

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Idma Laboratories Ltd. Digvi Jain Asst. Tech. Manager

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271225N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	68.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.94	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.38	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<6.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.23	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.41	0.43	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.03	18.67	18.22	18.31	Max. 160	NAAQMS/36/2012-13

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Idma Laboratories Ltd. Dipti Jain Mgt. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271225N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	ETS Township	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025 to 31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	55.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	28.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.06	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.25	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.17	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.44	0.46	0.45	0.45	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.77	18.46	17.82	18.02	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140126N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4500322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.01.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 19.01.2026	
Date of Reporting	19.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	67.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	16.29	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.46	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.45	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.5	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.38	0.42	0.39	0.40	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.1	18.9	18.6	18.53	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

Idma Laboratories Ltd. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140125N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.01.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 19.01.2026	
Date of Reporting	19.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	70.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	34.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.56	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	21.74	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.36	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.5	0.52	0.51	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.2	19.9	19.3	19.13	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Dipti Jain
Asst Tech Manager

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140126N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.01.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 19.01.2026	
Date of Reporting	19.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	71.6	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	35.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.16	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.53	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.46	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.43	0.45	0.42	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.3	19.1	18.5	18.63	Max. 180	NAAQMS/36/2012-13

Reviewed by

Idma Laboratories Ltd. Dipti Jain Branch Manager Panchkula

EndofReport

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.		140126N-E-404					Page No.1/1
Customer		M/s North Karanpura Super Thermal Power Project,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing,Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		09.01.2025					
Location of Sampling		ETS(Township)					
Date of Receiving of sample		14.01.2026					
Period of Analysis		14.01.2026 to 19.01.2026					
Date of Reporting		19.01.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQ5 and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	µg/m³	65.4				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	32.6				Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	18.02				Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	20.15				Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	µg/m³	8.9				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0				Max. 6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.11				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0				Max. 20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1				---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.34				Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.53	0.51	0.52	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	µg/m³	18	18.6	19.2	18.60	Max. 180	NAAQMS/36/2012-13

Reviewed by 19/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

Authorised Signatory 19/01/26

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TEST REPORT

LAB NO.	140126N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.01.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 19.01.2026	
Date of Reporting	19.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	64.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.62	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.59	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.41	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.43	0.44	0.44	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.10	18.50	18.70	18.43	Max. 180	NAAQMS/36/2012-13

Reviewedby 19/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

Authorised Signatory 19/1/26.

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140126N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4500322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.01.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 19.01.2026	
Date of Reporting	19.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	64.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.35	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.76	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.39	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.52	0.54	0.53	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.20	19.60	18.60	18.80	Max. 180	NAAQMS/36/2012-13

Reviewedby 19/01/26

EndofReport

Authorised Signatory 19/01/26

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TEST REPORT

LAB NO.	140126N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.01.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 19.01.2026	
Date of Reporting	19.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	34.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.86	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.65	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.37	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.42	0.44	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.00	19.40	18.90	18.77	Max. 180	NAAQMS/36/2012-13

Reviewedby 19/01/26

"EndofReport"

Authorised Signatory 19/01/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140126N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.01.2026	
Location of Sampling	ETS Township	
Date of Receiving of sample	14.01.2026	
Period of Analysis	14.01.2026 to 19.01.2026	
Date of Reporting	19.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	62.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.29	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.44	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.28	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16 24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.43	0.45	0.46	0.45	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.90	19.80	18.60	18.77	Max. 180	NAAQMS/36/2012-13

Reviewedby

EndofReport

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	68.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.95	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.69	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.44	0.41	0.43	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.30	19.50	18.80	19.00	Max. 180	NAAQMS/36/2012-13

Reviewedby

EndofReport

Authorised Signatory

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	66.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.62	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.74	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.29	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.52	0.51	0.49	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.90	18.50	18.00	18.13	Max. 180	NAAQMS/36/2012-13

Reviewed by 23/01/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	71.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	35.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.23	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.41	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.43	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.44	0.45	0.45	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.40	19.70	19.20	19.10	Max. 180	NAAQMS/36/2012-13

Reviewed by 23/01/26

End of Report

Authorised Signatory 23/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Idma Laboratories Ltd. Kartar Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	ETS(Township)	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.06	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.11	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<3.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.25	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.52	0.54	0.53	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.80	19.70	18.50	18.67	Max. 180	NAAQMS/36/2012-13

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EndofReport

Authorised Signatory 23/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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TEST REPORT

LAB NO.		190126N-E-405					Page No.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing,Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		14.01.2026					
Location of Sampling		Time Office (Main Plant)					
Date of Receiving of sample		19.01.2026					
Period of Analysis		19.01.2026 to 23.01.2026					
Date of Reporting		23.01.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	$\mu g/m^3$	66.8				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.2				Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.24				Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.35				Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<3.0				Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.33				Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.52	0.51	0.50	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.30	18.90	18.60	18.60	Max. 180	NAAQMS/36/2012-13

Reviewed by

End of Report

Authorised Signatory

Idma Laboratories Ltd. Deputy Asst Tech Manager Panchkula

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.01.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	µg/m³	70.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	34.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	18.74	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	20.61	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	µg/m³	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1		NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.37	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.52	0.5	0.51	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	µg/m³	18.20	19.40	19.00	18.87	Max. 180	NAAQMS/36/2012-13

Reviewedby 23/01/26

Dipti Jain, Asst. Tech. Manager, Idma Laboratories Ltd., Panchkula

EndofReport

Authorised Signatory 23/01/26

Kartar Singh, Tech. Mgr., Idma Laboratories Ltd., Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.01.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	66.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.23	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.51	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.27	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.42	0.44	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.80	19.60	18.30	18.57	Max. 180	NAAQMS/36/2012-13

Reviewed by 23/1/26

EndofReport

Authorised Signatory 23/1/26.

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.01.2026	
Location of Sampling	ETS Township	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	61.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.96	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.82	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.32	Max. 5	NAAQMS/36/2012-13
11	Benzo a pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			[0-8 hrs]	[8-16 hrs]	[16-24 hrs]			
CHEMICAL TEST NG(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.44	0.41	0.43	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.00	19.20	18.70	18.63	Max. 180	NAAQMS/36/2012-13

Reviewedby 23/01/26

EndofReport

Authorised Signatory 23/01/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.01.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 31.01.2026	
Date of Reporting	31.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TEST NG(Ambient Air)24hourly					
1	Particulate Matter (PM10)	µg/m³	72.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	35.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	18.22	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	20.16	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	µg/m³	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.47	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.43	0.44	0.43	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	µg/m³	18.50	19.40	18.20	18.70	Max. 180	NAAQMS/36/2012-13

Reviewed by 31/01/26 Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

Authorised Signatory 31/01/26 Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.01.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 31.01.2026	
Date of Reporting	31.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	29.8	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.12	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.59	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.3	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.29	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.53	0.52	0.52	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.30	19.70	19.40	19.13	Max. 180	NAAQMS/36/2012-13

31/01/26

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

End of Report

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.01.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 31.01.2026	
Date of Reporting	31.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	µg/m³	67.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	33.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	18.19	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	20.27	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	µg/m³	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.33	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.45	0.48	0.46	0.46	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	µg/m³	18.50	19.10	18.80	18.80	Max. 180	NAAQMS/36/2012-13

Reviewed by 31/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Technical Manager Panchkula

EndofReport

Authorised Signatory 31/01/26

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TEST REPORT

LAB NO.	270126N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.01.2026	
Location of Sampling	ETS(Township)	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 31.01.2026	
Date of Reporting	31.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.46	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.58	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.2	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.38	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.46	0.49	0.47	0.47	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.40	19.00	18.80	18.73	Max. 180	NAAQMS/36/2012-13

Reviewed by 31/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

31/01/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.		270126N-E-405					Page No.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing,Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		24.01.2026					
Location of Sampling		Time Office (Main Plant)					
Date of Receiving of sample		27.01.2026					
Period of Analysis		27.01.2026 to 31.01.2026					
Date of Reporting		31.01.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	$\mu g/m^3$	69.3				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.9				Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.25				Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.37				Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0				Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.34				Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.53	0.51	0.5	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.10	19.40	18.90	18.80	Max. 180	NAAQMS/36/2012-13

Reviewed by 31/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

Authorised Signatory 31/01/26

Idma Laboratories Ltd. Karter Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 31.01.2026	
Date of Reporting	31.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.27	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.51	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.26	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.47	0.49	0.53	0.50	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.00	18.80	19.70	18.83	Max. 180	NAAQMS/36/2012-13

Reviewed By: 31/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 31.01.2026	
Date of Reporting	31.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	71.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	35.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.53	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.74	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.35	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.44	0.41	0.45	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.10	19.90	18.40	18.80	Max. 180	NAAQMS/36/2012-13

Reviewedby 31/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

Authorised Signatory 31/01/26.

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	ETS Township	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 31.01.2026	
Date of Reporting	31.01.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.07	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.21	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.28	Max. 5	NAAQMS/36/2012-13
11	Benzo a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.42	0.41	0.44	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.50	19.10	18.80	18.80	Max. 180	NAAQMS/36/2012-13

Reviewed by 31/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

Authorised Signatory 31/01/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	27.01.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 04.02.2026	
Date of Reporting	04.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	72.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	35.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.15	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.38	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.34	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.39	0.41	0.43	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.60	19.40	18.90	18.97	Max. 180	NAAQMS/36/2012-13

Reviewed by 04/02/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

End of Report

Authorised Signatory 04/02/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	27.01.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 04.02.2026	
Date of Reporting	04.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	66.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.95	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.23	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.22	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.49	0.47	0.47	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.20	19.80	19.50	19.17	Max. 180	NAAQMS/36/2012-13

Reviewed by 04/02/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

Authorised Signatory 04/02/26.

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TEST REPORT

LAB NO.	310126N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	27.01.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 04.02.2026	
Date of Reporting	04.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	71.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	35.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.32	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.47	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.23	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.42	0.44	0.41	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.80	18.50	17.90	18.10	Max. 180	NAAQMS/36/2012-13

Reviewed by 04/2/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

End of Report

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	27.01.2026	
Location of Sampling	ETS(Township)	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 04.02.2026	
Date of Reporting	04.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	63.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.54	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.62	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.2	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<6.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.24	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.46	0.47	0.47	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.90	19.30	18.60	18.60	Max. 180	NAAQMS/36/2012-13

Reviewedby 04/02/26

Dipti Jain, Asst. Tech. Manager, Idma Laboratories Ltd., Panchkula

"EndofReport"

Authorised Signatory

Kanhaiya Singh, Tech. Mgr., Idma Laboratories Ltd., Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	28.01.2026	
Location of Sampling,	Time Office (Main Plant)	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 04.02.2026	
Date of Reporting	04.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	74.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	36.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.56	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.64	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.15	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.52	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.51	0.48	0.49	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.10	19.70	18.30	18.70	Max. 180	NAAQMS/36/2012-13

Reviewed by 4/02/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

End of Report

Authorised Signatory 04/02/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	28.01.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 04.02.2026	
Date of Reporting	04.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	64.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.37	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.69	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.31	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.46	0.51	0.48	0.48	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.90	19.20	18.10	18.40	Max. 180	NAAQMS/36/2012-13

Reviewedby 04/02/

Idma Laboratories Ltd. Dipti Jain Asst Tech Manager Panchkula

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Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	28.01.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 04.02.2026	
Date of Reporting	04.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protoco	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	73.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	36.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.28	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.53	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.45	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.5	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.43	0.41	0.42	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.90	19.00	18.40	18.43	Max. 180	NAAQMS/36/2012-13

Reviewed by 04/02/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport

Authorised Signatory 04/02/26.

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Idma Laboratories Limited

TEST REPORT

LAB NO.	310126N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	28.01.2026	
Location of Sampling	ETS Township	
Date of Receiving of sample	31.01.2026	
Period of Analysis	31.01.2026 to 04.02.2026	
Date of Reporting	04.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	39.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.16	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.33	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<6.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.34	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.42	0.41	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.40	19.10	18.90	18.80	Max. 180	NAAQMS/36/2012-13

Reviewed by

EndofReport

Authorised Signatory

Idma Laboratories Ltd. Dipti Jain Asst. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.		060226N-E-401					Page No.1/1
Customer		M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing,Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		02.02.2026					
Location of Sampling		Time Office(Main Plant)					
Date of Receiving of sample		06.02.2026					
Period of Analysis		06.02.2026 to 10.02.2026					
Date of Reporting		10.02.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter(PM10)	$\mu g/m^3$	63.1				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	30.8				Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.12				Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.31				Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	9				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0				Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.52				Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.36	0.41	0.38	0.38	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.3	19.6	18.4	18.77	Max. 180	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

LAB NO.	060226N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.02.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	67.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	33.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.23	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.62	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.42	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.46	0.44	0.48	0.46	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.6	19.1	18.8	18.83	Max. 180	NAAQMS/36/2012-13

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Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager

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Idma Laboratories Limited

TEST REPORT

LAB NO.	060226N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	02.02.2026	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	70.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	33.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	17.85	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	19.15	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.15	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.53	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.42	0.46	0.41	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.2	19.4	18.6	18.73	Max. 180	NAAQMS/36/2012-13

EndofReport

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Idma Laboratories Limited

TEST REPORT

LAB NO.		060226N-E-404					Page No.1/1
Customer		M/s North Karanpura Super Thermal Power Project,POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing,Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		02.02.2026					
Location of Sampling		ETS(Township)					
Date of Receiving of sample		06.02.2026					
Period of Analysis		06.02.2026 to 10.02.2026					
Date of Reporting		10.02.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly								
1	Particulate Matter(PM10)	$\mu g/m^3$	60.8				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	31.5				Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	17.75				Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.26				Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	9				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0				Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.39				Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results (10-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.49	0.5	0.47	0.49	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.8	19.6	19.1	19.17	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	060226N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.02.2026	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	62.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	30.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	17.83	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	19.75	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.44	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.43	0.41	0.42	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.50	19.00	18.60	18.70	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	060226N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.02.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	61.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	30.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.21	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.56	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.45	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.52	0.51	0.49	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.70	19.10	18.80	18.87	Max. 180	NAAQMS/36/2012-13

EndofReport

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TEST REPORT

LAB NO.	060226N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.02.2026	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	68.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	33.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	17.54	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.06	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.42	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.38	0.41	0.39	0.39	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.90	18.60	18.20	18.23	Max. 180	NAAQMS/36/2012-13

10/02/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	060226N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.02.2026	
Location of Sampling	ETSTownship	
Date of Receiving of sample	06.02.2026	
Period of Analysis	06.02.2026 to 10.02.2026	
Date of Reporting	10.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	60.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	29.8	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	17.75	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	19.51	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.4	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.34	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.41	0.39	0.43	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.30	19.70	19.10	19.03	Max. 180	NAAQMS/36/2012-13

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TEST REPORT

LAB NO.	1402226N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	65.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	30.8	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.02	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.14	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.29	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.42	0.41	0.39	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.50	19.70	19.50	19.23	Max. 180	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	69.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	33.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.71	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.65	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.36	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.49	0.52	0.48	0.50	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.10	19.40	18.50	18.67	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	67.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	34.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.15	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.29	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.48	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.43	0.41	0.42	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.20	19.40	18.50	18.70	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 18/2/26 — Idma Laboratories Ltd. Dipti Jain Asst Tech Manager Panchkula

Reviewed by 18/2/26 — Idma Laboratories Ltd. Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	ETS(Township)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	58.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	28.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	17.33	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	19.25	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.31	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.49	0.52	0.51	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.20	19.60	19.30	19.03	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 18/02/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

Idma Laboratories Ltd. Tech. Mgr. Panchkula

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TEST REPORT

LAB NO.	140226N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.02.2026	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	64.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	32.1	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.15	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.21	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.39	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.46	0.51	0.49	0.49	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.00	19.50	18.90	18.80	Max. 180	NAAQMS/36/2012-13

EndofReport

18/02/26
Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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TEST REPORT

LAB NO.	140226N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.02.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	66.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	32.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.16	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.08	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.44	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.51	0.52	0.48	0.50	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.60	19.80	19.60	19.33	Max. 180	NAAQMS/36/2012-13

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Authorised by

Idma Laboratories Ltd. Dipti Jain Asst Tech Manager Panchkula

Reviewed by

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TEST REPORT

LAB NO.	140226N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.02.2026	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	68.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	33.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.36	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.64	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.35	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.44	0.45	0.43	0.44	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.30	19.40	19.10	18.93	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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TEST REPORT

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Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.02.2026	
Location of Sampling	ETSTownship	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	60.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	29.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	17.84	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	19.66	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.35	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	(8-16 hrs)	(16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.41	0.39	0.42	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.40	19.60	19.20	19.07	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 18/02/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	200226N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	16.02.2026	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	71.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	34.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.17	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.26	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.52	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.41	0.43	0.41	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.70	19.90	19.60	19.40	Max. 180	NAAQMS/36/2012-13

EndofReport

25/02/26
Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	200226N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	16.02.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	62.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	30.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.27	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.66	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.5	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.35	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.53	0.52	0.54	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.50	19.60	19.40	19.17	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	200226N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	16.02.2026	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	64.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	32.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.09	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.15	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.38	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.43	0.47	0.44	0.45	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.20	19.50	18.60	18.77	Max. 180	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

LAB NO.	200226N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	16.02.2026	
Location of Sampling	ETS(Township)	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	63.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	31.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	17.34	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	19.29	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.41	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.44	0.47	0.45	0.45	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.60	19.80	19.50	19.30	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	200226N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	17.02.2026	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	67.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	34.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.32	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.45	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	9.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.46	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			10-8 hrs	8-16 hrs	16-24 hrs			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.52	0.54	0.53	0.53	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.60	20.00	19.80	19.47	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 25/02/26 — Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	200226N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	17.02.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	65.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	32.6	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.45	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.63	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.34	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.45	0.48	0.51	0.48	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.80	19.90	19.40	19.37	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	200226N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	17.02.2026	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	68.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	33.7	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.41	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.56	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.43	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.47	0.44	0.41	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.80	19.70	19.30	19.27	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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TEST REPORT

LAB NO.	200226N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	17.02.2026	
Location of Sampling	ETSTownship	
Date of Receiving of sample	20.02.2026	
Period of Analysis	20.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	67.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	29.3	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	17.92	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	19.59	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.33	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.41	0.39	0.42	0.41	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.30	19.50	18.00	18.60	Max. 180	NAAQMS/36/2012-13

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	270226N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.02.2026	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	70.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	34.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.04	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.22	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.45	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.41	0.42	0.44	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.50	19.70	19.10	19.10	Max. 180	NAAQMS/36/2012-13

EndofReport

02/03/26
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TEST REPORT

LAB NO.	270226N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.02.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	67.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	33.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.03	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.38	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.37	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.44	0.48	0.46	0.46	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.40	19.50	18.80	18.90	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 02/03/26

Dipti Jain
Asst. Tech. Manager
Idma Laboratories Ltd.
Panchkula

Reviewed by 02/03/26

Rana
Tech. Mgr.
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TEST REPORT

LAB NO.	270226N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.02.2026	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	69.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	34.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.19	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.31	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.32	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.41	0.43	0.42	0.42	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.30	19.20	18.90	18.80	Max. 180	NAAQMS/36/2012-13

EndofReport

02/03/26

Authorised by

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TEST REPORT

LAB NO.	270226N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.02.2026	
Location of Sampling	ETS(Township)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	61.3	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	30.5	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	17.42	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	19.32	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.1	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.36	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.46	0.47	0.45	0.46	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.00	19.40	19.00	18.80	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by

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TEST REPORT

LAB NO.	270226N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	Time Office(Main Plant)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	73.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	35.9	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.39	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.52	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.57	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.52	0.51	0.49	0.51	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.70	20.00	19.60	19.43	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 02/03/26.

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 02/03/26.

Idma Laboratories Ltd. Kartar ... Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270226N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing ProtocoI	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	66.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	33.3	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.24	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.46	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.37	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.44	0.48	0.46	0.46	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.20	19.70	19.40	19.10	Max. 180	NAAQMS/36/2012-13

EndofReport

Authorised by 02/03/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 02/03/26

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Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270226N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	Switch Yard(Main Plant)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	71.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	35.2	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.37	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.61	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.49	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.42	0.44	0.42	0.43	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	17.80	19.60	19.30	18.90	Max. 180	NAAQMS/36/2012-13

EndofReport

02/03/26
Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

Idma Laboratories Ltd. Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270226N-E-408	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand- 825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing,Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	ETSTownship	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24 hourly					
1	Particulate Matter(PM10)	$\mu g/m^3$	59.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter(PM2.5)	$\mu g/m^3$	38.4	Max. 60	NAAQMS/36/2012-13
3	Sulphur Dioxide(SO_2)	$\mu g/m^3$	18.07	Max. 80	NAAQMS/36/2012-13
4	Nitrogen Dioxide(NO_2)	$\mu g/m^3$	20.14	Max. 80	NAAQMS/36/2012-13
5	Ammonia(NH_3)	$\mu g/m^3$	8.6	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max. 6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.11	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max. 20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.41	Max. 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
12	Carbon Monoxide(CO)	mg/m^3	0.39	0.41	0.38	0.39	Max. 4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.60	20.20	19.80	19.53	Max. 180	NAAQMS/36/2012-13

EndofReport

02/03/26

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 02/03/26.

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Idma Laboratories Limited

TEST REPORT

LAB NO.		070326N-E-401					PageNo.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing, Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		02.03.2026					
Location of Sampling		Time Office (Main Plant)					
Date of Receiving of sample		07.03.2026					
Period of Analysis		07.03.2026 to 12.03.2026					
Date of Reporting		12.03.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	µg/m³	67.9				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	34.2				Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	18.35				Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	20.42				Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	µg/m³	9.2				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0				Max.6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.16				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0				Max.20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1				.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.69				Max 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.38	0.42	0.39	0.40	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	µg/m³	18.6	20.2	19.4	19.40	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by
Dipti Jain
Asst. Tech. Manager
Idma Laboratories Ltd.
Panchkula

Authorised by
12/03/26
Kartar Singh
Tech. Mgr.
Idma Laboratories Ltd.
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Idma Laboratories Limited

TEST REPORT

LAB NO.		070326N-E-402					PageNo.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing, Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		02.03.2026					
Location of Sampling		DM Plant					
Date of Receiving of sample		07.03.2026					
Period of Analysis		07.03.2026 to 12.03.2026					
Date of Reporting		12.03.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	$\mu g/m^3$	70.5				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	36.1				Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.44				Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	2.75				Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.9				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.17				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0				Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.65				Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.42	0.44	0.44	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.7	20.3	19.6	19.53	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.		070326N-E-403					PageNo.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing, Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		02.03.2026					
Location of Sampling		Switch Yard (Main Plant)					
Date of Receiving of sample		07.03.2026					
Period of Analysis		07.03.2026 to 12.03.2026					
Date of Reporting		12.03.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	µg/m³	72.3				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	35.4				Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	17.96				Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	19.52				Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	µg/m³	9				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0				Max.6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.18				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0				Max.20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1				....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.71				Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(8-16 hrs)	(16-24 hrs)				
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.41	0.45	0.39	0.42	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	µg/m³	18.4	20.7	20.3	19.80	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.		070326N-E-404					PageNo.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing, Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		02.03.2026					
Location of Sampling		ETS (Township)					
Date of Receiving of sample		07.03.2026					
Period of Analysis		07.03.2026 to 12.03.2026					
Date of Reporting		12.03.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	$\mu g/m^3$	63.5				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.7				Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.88				Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.31				Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9.2				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0				Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.57				Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.51	0.45	0.48	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.6	19.9	19.6	19.37	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	070326N-E-405	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.03.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 12.03.2026	
Date of Reporting	12.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	64.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.8	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.14	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.23	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.63	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.44	0.42	0.44	0.43	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.80	20.40	20.10	19.77	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	070326N-E-406	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.03.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 12.03.2026	
Date of Reporting	12.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	64.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	34.2	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.35	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.62	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.59	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.47	0.5	0.49	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.50	20.10	19.80	19.47	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	070326N-E-407	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.03.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 12.03.2026	
Date of Reporting	12.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	70.6	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	35.3	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.12	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.23	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.15	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.54	Max 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.39	0.42	0.4	0.40	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.30	20.60	19.80	19.57	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Test Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.		070326N-E-408					PageNo.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing, Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		03.03.2026					
Location of Sampling		ETS Township					
Date of Receiving of sample		07.03.2026					
Period of Analysis		07.03.2026 to 12.03.2026					
Date of Reporting		12.03.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	µg/m³	62.2				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	31.7				Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	18.09				Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	20.16				Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	µg/m³	8.5				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0				Max.6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.13				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0				Max.20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1				----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.46				Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results (0-8 hrs)	(8-16 hrs)	(16-24 hrs)	Average	Specification	Test Methods
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.4	0.41	0.4	0.40	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	µg/m³	18.70	20.80	20.50	20.00	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Dipti Jain
Asst. Tech. Manager
Idma Laboratories Ltd.
Panchkula

Authorised by

Kanter Singh
Tech. Mgr.
Idma Laboratories Ltd.
Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	180326N-E-401	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.03.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 23.03.2026	
Date of Reporting	23.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	68.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.7	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.23	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.34	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.41	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.4	0.38	0.41	0.40	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.60	20.30	20.00	19.63	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	180326N-E-402	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.03.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 23.03.2026	
Date of Reporting	23.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	71.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	34.3	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.64	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.71	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.15	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.49	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.47	0.51	0.46	0.48	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.50	20.90	20.40	19.93	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised By

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	180326N-E-403	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.03.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 23.03.2026	
Date of Reporting	23.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	35.3	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.39	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.45	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.63	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.42	0.44	0.42	0.43	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.30	20.00	19.60	19.30	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	180326N-E-404	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.03.2026	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 23.03.2026	
Date of Reporting	23.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	60.5	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.2	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.56	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.74	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.15	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.46	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.51	0.48	0.49	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.60	20.20	19.90	19.57	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

23/03/26

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	180326N-E-405	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 23.03.2026	
Date of Reporting	23.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	66.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	34.5	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.36	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.41	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.52	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.48	0.5	0.47	0.48	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.20	20.10	19.50	19.27	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	180326N-E-406	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 23.03.2026	
Date of Reporting	23.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.8	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.46	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.34	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.67	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.49	0.51	0.47	0.49	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.80	20.90	20.50	20.07	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 23/3/26

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TEST REPORT

LAB NO.	180326N-E-407	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 23.03.2026	
Date of Reporting	23.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	70.6	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	35.8	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.53	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.81	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.16	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.74	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.43	0.42	0.41	0.42	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.90	20.70	19.90	19.83	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	180326N-E-408	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	ETS Township	
Date of Receiving of sample	18.03.2026	
Period of Analysis	18.03.2026 to 23.03.2026	
Date of Reporting	23.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	62.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.4	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.09	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.13	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.47	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.38	0.36	0.39	0.38	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.10	19.80	19.60	19.17	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

23/03/2

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Idma Laboratories Limited

TEST REPORT

LAB NO.	230326N-E-401	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	18.03.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 27.03.2026	
Date of Reporting	27.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	73.9	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	36.5	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.33	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.62	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9.1	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.17	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.69	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.42	0.44	0.42	0.43	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.90	20.30	19.60	19.60	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	230326N-E-402	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	18.03.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 27.03.2026	
Date of Reporting	27.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.9	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.37	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.79	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.64	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.51	0.53	0.52	0.52	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.40	20.30	19.20	19.30	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.		230326N-E-403					Page No.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing, Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		18.03.2026					
Location of Sampling		Switch Yard (Main Plant)					
Date of Receiving of sample		23.03.2026					
Period of Analysis		23.03.2026 to 27.03.2026					
Date of Reporting		27.03.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	$\mu g/m^3$	66.8				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.7				Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.22				Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.58				Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.9				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0				Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				----	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.58				Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.42	0.43	0.41	0.42	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.50	20.50	19.60	19.53	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	230326N-E-404	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	18.03.2026	
Location of Sampling	ETS (Township)	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 27.03.2026	
Date of Reporting	27.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	65.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	34.2	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.75	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.87	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.3	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.66	Max 5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.45	0.48	0.46	0.46	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.90	20.00	19.90	19.60	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	230326N-E-405	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.03.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 27.03.2026	
Date of Reporting	27.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	68.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	35.3	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.43	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.51	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9.2	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.61	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.5	0.52	0.51	0.51	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.40	20.50	19.90	19.60	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by: 27/3/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by: 27/3/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	230326N-E-406	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.03.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 27.03.2026	
Date of Reporting	27.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	67.2	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	33.8	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.56	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.74	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.13	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.45	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.42	0.46	0.48	0.45	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.50	19.80	19.20	19.17	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	230326N-E-407	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.03.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 27.03.2026	
Date of Reporting	27.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	70.1	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	35.6	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.63	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.71	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.16	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.64	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.43	0.44	0.43	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.70	20.60	19.10	19.47	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	230326N-E-408	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	19.03.2026	
Location of Sampling	ETS Township	
Date of Receiving of sample	23.03.2026	
Period of Analysis	23.03.2026 to 27.03.2026	
Date of Reporting	27.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	69	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	30.2	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.08	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.15	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.54	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.39	0.4	0.38	0.39	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.60	20.70	20.00	19.77	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.		Z70326N-E-401					PageNo.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing, Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		23.03.2026					
Location of Sampling		Time Office (Main Plant)					
Date of Receiving of sample		27.03.2026					
Period of Analysis		27.03.2026 to 31.03.2026					
Date of Reporting		31.03.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	µg/m³	72.5				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	36.6				Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	18.27				Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	20.38				Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	µg/m³	8.8				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0				Max.6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.17				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0				Max.20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1				---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.77				Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.43	0.44	0.45	0.44	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	µg/m³	18.40	20.20	19.30	19.30	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by 31/3/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270326N-E-402	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.03.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 31.03.2026	
Date of Reporting	31.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	68.4	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	34.5	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.37	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.44	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.7	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.14	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.62	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results (0-8 hrs)	Results (8-16 hrs)	Results (16-24 hrs)	Average	Specification	Test Methods
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.42	0.45	0.44	0.44	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.80	20.90	20.60	20.10	Max. 180	NAAQMS/36/2012-13

End of Report

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Idma Laboratories Limited

TEST REPORT

LAB NO.		270326N-E-403					PageNo.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing, Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		23.03.2026					
Location of Sampling		Switch Yard (Main Plant)					
Date of Receiving of sample		27.03.2026					
Period of Analysis		27.03.2026 to 31.03.2026					
Date of Reporting		31.03.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	$\mu g/m^3$	71.6				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	36.1				Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.25				Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.41				Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.8				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.15				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0				Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.67				Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.43	0.46	0.44	0.44	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.80	20.40	19.50	19.57	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by 31/3/26

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LAB NO.		270326N-E-404					PageNo.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing, Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		23.03.2026					
Location of Sampling		ETS (Township)					
Date of Receiving of sample		27.03.2026					
Period of Analysis		27.03.2026 to 31.03.2026					
Date of Reporting		31.03.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	$\mu g/m^3$	63.7				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	32.2				Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	17.64				Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	19.55				Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.2				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0				Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0				Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1				....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.47				Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.44	0.46	0.43	0.44	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	18.60	20.00	19.40	19.33	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by 31/3/26

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TEST REPORT

LAB NO.	270326N-E-405	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.03.2026	
Location of Sampling	Time Office (Main Plant)	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 31.03.2026	
Date of Reporting	31.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	75.6	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	38.1	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.43	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.61	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.18	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	---	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.67	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.5	0.49	0.51	0.50	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	19.20	20.10	19.80	19.70	Max. 180	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

LAB NO.		270326N-E-406					PageNo.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)					
Work Order No.		4000322280-037-1019					
Type of Sample		Ambient Air					
Quantity		1					
Packing, Markings		Filter Paper packed in Polythene Pouch					
Mode of collection of Sample		Sampling by Laboratories					
Sample Collected by		Idma Lab Representative					
Date of Sampling		24.03.2026					
Location of Sampling		DM Plant					
Date of Receiving of sample		27.03.2026					
Period of Analysis		27.03.2026 to 31.03.2026					
Date of Reporting		31.03.2026					
Sampling Protocol		NAAQMS/36/2012-13					
Testing Protocol		NAAQS and CPCB					
S.No.	Test Parameters	Units	Results				Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly								
1	Particulate Matter (PM10)	µg/m³	68				Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	µg/m³	34.9				Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	µg/m³	18.35				Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	µg/m³	20.41				Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	µg/m³	8.9				Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m³	<1.0				Max.6	NAAQMS/36/2012-13
7	Lead	µg/m³	0.12				Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m³	<8.0				Max.20	NAAQMS/36/2012-13
9	Mercury	µg/m³	<0.1				....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	µg/m³	0.56				Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m³	<0.9				Max. 1.0	NAAQMS/36/2012-13
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			00-8 hrs	08-16 hrs	16-24 hrs			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m³	0.43	0.47	0.44	0.45	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	µg/m³	18.90	20.50	20.30	19.90	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 31/3/26

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270326N-E-407	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.03.2026	
Location of Sampling	Switch Yard (Main Plant)	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 31.03.2026	
Date of Reporting	31.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	73.7	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	36.4	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.61	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.78	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	9	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.16	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.66	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.39	0.4	0.40	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	19.30	20.80	20.60	20.23	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270326N-E-408	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Ambient Air	
Quantity	1	
Packing, Markings	Filter Paper packed in Polythene Pouch	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.03.2026	
Location of Sampling	ETS Township	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 31.03.2026	
Date of Reporting	31.03.2026	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results	Specification	Test Method
CHEMICALTESTING(Ambient Air)24hourly					
1	Particulate Matter (PM10)	$\mu g/m^3$	62.8	Max. 100	NAAQMS/36/2012-13
2	Particulate Matter (PM2.5)	$\mu g/m^3$	31.5	Max.60	NAAQMS/36/2012-13
3	Sulphur Dioxide (SO_2)	$\mu g/m^3$	18.18	Max.80	NAAQMS/36/2012-13
4	Nitrogen Dioxide (NO_2)	$\mu g/m^3$	20.34	Max.80	NAAQMS/36/2012-13
5	Ammonia (NH_3)	$\mu g/m^3$	8.8	Max. 400	NAAQMS/36/2012-13
6	Arsenic	ng/m^3	<1.0	Max.6	NAAQMS/36/2012-13
7	Lead	$\mu g/m^3$	0.12	Max. 1.0	NAAQMS/36/2012-13
8	Nickel	ng/m^3	<8.0	Max.20	NAAQMS/36/2012-13
9	Mercury	$\mu g/m^3$	<0.1	.....	NAAQMS/36/2012-13
10	Benzene as C_6H_6	$\mu g/m^3$	0.57	Max.5	NAAQMS/36/2012-13
11	Benzo-a-pyrene	ng/m^3	<0.9	Max. 1.0	NAAQMS/36/2012-13

S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICALTESTING(Ambient Air)8hourly								
12	Carbon Monoxide (CO)	mg/m^3	0.41	0.43	0.41	0.42	Max.4	NAAQMS/36/2012-13
13	Ozone (O_3)	$\mu g/m^3$	19.50	20.60	20.30	20.13	Max. 180	NAAQMS/36/2012-13

End of Report

Reviewed by

Dipti Jain
Asst. Tech. Manager
Idma Laboratories Ltd. Panchkula

Authorised by

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Tech. Mgr.
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TEST REPORT

LAB NO.	131025N-E-010	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	Fired Coal(Unit-1)	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 17.10.2025	
Date of Reporting	17.10.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.27	ASTMD-4239

EndofReport*

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-011	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	Fired Coal(Unit-2)	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 17.10.2025	
Date of Reporting	17.10.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.28	ASTMD-4239

EndofReport*

Authorised by 17/10/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 17/10/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-012	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	Fired Coal(Unit-3)	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 17.10.2025	
Date of Reporting	17.10.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.26	ASTMD-4239

EndofReport*

Authorised by 17/10/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 17/10/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-018	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	Fired Coal(Unit-1)	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.29	ASTMD-4239

EndofReport*

Authorised by 30/10/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 30/10/25

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TEST REPORT

LAB NO.	271025N-E-019	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	Fired Coal(Unit-2)	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.27	ASTMD-4239

EndofReport*

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

30/10/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-020	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	Fired Coal(Unit-3)	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.25	ASTMD-4239

EndofReport*

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-415	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Fired Coal(Unit-1)	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 15.11.2025	
Date of Reporting	15.11.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.26	ASTMD-4239

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-416	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Fired Coal(Unit-2)	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 15.11.2025	
Date of Reporting	15.11.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.29	ASTMD-4239

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-417	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Fired Coal(Unit-3)	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 15.11.2025	
Date of Reporting	15.11.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.27	ASTMD-4239

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

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Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	231125N-E-415	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	21.11.2025	
Location of Sampling	Fired Coal(Unit-1)	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 28.11.2025	
Date of Reporting	28.11.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.29	ASTMD-4239

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

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TEST REPORT

LAB NO.	231125N-E-416	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	21.11.2025	
Location of Sampling	Fired Coal(Unit-2)	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 28.11.2025	
Date of Reporting	28.11.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.28	ASTMD-4239

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	231125N-E-417	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	21.11.2025	
Location of Sampling	Fired Coal(Unit-3)	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 28.11.2025	
Date of Reporting	28.11.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.26	ASTMD-4239

End of Report

Reviewed by 28/11/25

Authorised Signatory

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Idma Laboratories Limited

TEST REPORT

LAB NO.	161225N-E-401	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	Fired Coal(Unit-1)	
Date of Receivingof sample	16.12.2025	
Period of Analysis	16.12.2025 to 20.12.2025	
Date of Reporting	20.12.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.25	ASTM D-4239

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	161225N-E-402	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	Fired Coal(Unit-2)	
Date of Recelvingof sample	16.12.2025	
Period of Analysis	16.12.2025 to 20.12.2025	
Date of Reporting	20.12.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.27	ASTM D-4239

EndofReport

Authorised by 20/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 20/12/25

Idma Laboratories Ltd. Karlar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	251225N-E-401	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	Fired Coal(Unit-1)	
Date of Receivingof sample	25.12.2025	
Period of Analysis	25.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.28	ASTM D-4239

EndofReport

Authorised by 30/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 30/12/25

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TEST REPORT

LAB NO.	251225N-E-402	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	Fired Coal(Unit-2)	
Date of Receivingof sample	25.12.2025	
Period of Analysis	25.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.27	ASTM D-4239

EndofReport

Authorised by 30/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager

Reviewed by 30/12/25

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	251225N-E-403	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	Fired Coal(Unit-3)	
Date of Receivingof sample	25.12.2025	
Period of Analysis	25.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.29	ASTM D-4239

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-418	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	15.01.2026	
Location of Sampling	Fired Coal(Unit-1)	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.27	ASTM D-4239

EndofReport

Authorised by 23/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 23/01/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-419	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	Fired Coal(Unit-2)	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.29	ASTM D-4239

EndofReport

Authorised by 23/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-420	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	Fired Coal(Unit-3)	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.24	ASTM D-4239

EndofReport

Authorised by 23/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 23/01/26.

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Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-418	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	Fired Coal(Unit-1)	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.26	ASTM D-4239

EndofReport

Authorised by 30/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 30/01/26

Idma Laboratories Ltd. Kishor Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-419	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	Fired Coal(Unit-2)	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.25	ASTM D-4239

EndofReport

Authorised by 30/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 30/01/26

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TEST REPORT

LAB NO.	270126N-E-420	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	Fired Coal(Unit-3)	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.28	ASTM D-4239

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Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 30/01/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-427	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Fired Coal(Unit-1)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.29	ASTM D-4239

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-428	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Fired Coal(Unit-2)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.26	ASTM D-4239

EndofReport

18/02/26

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TEST REPORT

LAB NO.	140226N-E-429	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Fired Coal(Unit-3)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.27	ASTM D-4239

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270226N-E-415	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	Fired Coal(Unit-1)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.27	ASTM D-4239

EndofReport

02/03/26
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Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 02/03/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270226N-E-419	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	Fired Coal(Unit-2)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.27	ASTM D-4239

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Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	270226N-E-420	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	Fired Coal(Unit-3)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.27	ASTM D-4239

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TEST REPORT

LAB NO.	070326N-E-418	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing, Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.03.2026	
Location of Sampling	Fired Coal (Unit-1)	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 10.03.2026	
Date of Reporting	10.03.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.26	ASTMD-4239

End of Report

Reviewed by

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LAB NO.	070326N-E-419	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing, Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.03.2026	
Location of Sampling	Fired Coal (Unit-2)	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 10.03.2026	
Date of Reporting	10.03.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.29	ASTMD-4239

End of Report

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	070326N-E-420	PageNo.1/1
Customer	M/sNorthKaranpuraSuperThermalPowerProject,POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing, Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.03.2026	
Location of Sampling	Fired Coal (Unit-3)	
Date of Receiving of sample	07.03.2026	
Period of Analysis	07.03.2026 to 10.03.2026	
Date of Reporting	10.03.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.28	ASTMD-4239

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270326N-E-418	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing, Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.03.2026	
Location of Sampling	Fired Coal (Unit-1)	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 30.03.2026	
Date of Reporting	30.03.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.25	ASTMD-4239

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270326N-E-419	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing, Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.03.2026	
Location of Sampling	Fired Coal (Unit-2)	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 30.03.2026	
Date of Reporting	30.03.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.28	ASTMD-4239

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Kanta Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270326N-E-420	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fired Coal	
Quantity	1 Kg	
Packing, Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.03.2026	
Location of Sampling	Fired Coal (Unit-3)	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 30.03.2026	
Date of Reporting	30.03.2026	
Sampling Protocol	IS:436	

S.No.	Test Parameters	Units	Results	Test Method
1	Sulphur Content	%	0.26	ASTMD-4239

End of Report

Reviewed by 30/3/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised By

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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भारत सरकार
परमाणु ऊर्जा विभाग
विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

Government of India
Department of Atomic Energy
Board of Radiation & Isotope Technology

प्रमाणपत्र ट्रैकिंग आईडी/Certificate Tracking ID : 2505401
जारी करने की तिथि/Date of Issue : 18-Dec-2025
प्रमाणपत्र क्रमांक/Certificate Sr.No.: ULR-TC11703250000001736F

TC-16423

Radioanalytical Laboratory

RADIOACTIVITY TEST CERTIFICATE

Ref : BRIT/RAL/DOM/1420-1431/MISC/1041-1052/25-26

To :
M/S NTPC LIMITED (NORTH KARANPURA SUPER THERMAL POWER PROJECT)
PO.: TANDWA, DIST.CHATRA, PIN : 825321
JHARKHAND, INDIA.

This is regarding the sample of "COAL, FLY ASH & BOTTOM ASH" sent for radioactivity analysis vide your letter Ref.no. NKSTPP/EMG/RAT/48 dated 24.09.2025 as shown in italics:

Sr. No	SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLING DATE
1	COAL	NKSTPP-JHARKHAND	28/08/2025
2	DRY FLY ASH	NKSTPP - JHARKHAND	28.08.2025
3	BOTTOM ASH	NKSTPP - JHARKHAND	28.08.2025

DATE OF RECEIPT OF SAMPLE: 27.11.2025 **DATE OF COMPLETION OF TEST: 18.12.2025**

The samples were analysed for U-238, Ra-226 , Th-232 and K-40 radioactivity content by HPGe gamma spectrometry and the values obtained are as follows:

Sr. No	NAME OF THE PRODUCT	U-238 (Bq/Kg)	Ra-226 (Bq/Kg)	Th-232 (Bq/Kg)	K-40 (Bq/Kg)
1	COAL	45.7 ± 3.0	6.0 ± 1.1	79.2 ± 5.2	218.9 ± 15.5
2	DRY FLY ASH	126.6 ± 3.5	103.4 ± 8.9	189.6 ± 6.5	388.6 ± 23.0
3	BOTTOM ASH	131.4 ± 6.0	90.7 ± 11.7	191.3 ± 9.4	332.3 ± 27.63

Opinion: The measurement values are below the clearance level for radionuclides of natural origin in bulk solid materials, as per AERB directive 01/2010 (table-3) dated 26/11/2010.

Note: (i) The report pertains to the given sample only. (ii) The sample will be retained in this laboratory for a period of 1 month from certificate date and thereafter it will be disposed off. (iii) This report shall not be reproduced except in full, without written approval of the laboratory. (iv) The sampling is not done by this laboratory.

Checked by:
GANPAT B NAKTI
Assistant

Authorized Signatory:
AJAY NANA THAMKE
OIC, RAL

********** End of Report **********

The authenticity of this certificate is verifiable. Please scan the QR code using a QR scanning application on any mobile devices. Upon redirection you must enter the necessary information in landing page https://eportal.britatom.gov.in. We will then revert you back with a digital copy of the certificate in your verified e-mail ID.
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विआप्रौबो/ बीएआरसी परिसर, सेक्टर २०, वाशी, नवी मुंबई – ४०० ७०३ (महाराष्ट्र)
BRIT/ BARC Vashi Complex, Sector 20, Navi Mumbai - 400 703 (Maharashtra)
वेबसाइट/ Website: www.britatom.gov.in; दूरभाष/ 022 2788 7002/ 7006

Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-015	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	Boiler Unit-1 (660MW)	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	28	IS: 11255 Part 1
2	Stack gas Temperature	°C	122	IS: 11255 Part 1
3	Barometric Pressure	mmHg	753.12	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.7	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	20	IS: 11255 Part 1
9	Sampling Time	Minutes	44	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	21.29	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	23.44	IS: 11255 Part 1
15	Particulate Matter on 6%O2	mg/Nm^3	24.57	IS: 11255 Part 1

30/10

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.		271025N-E-015		Page No. 2/2
16	CO2	%	10.9	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	224.13	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	258.61	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	733.95	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	846.87	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0012	LATS/80 /2013-2014 /CPCB Manual

EndofReport*

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

30/10/25

Idma Laboratories Ltd. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-016	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	Boiler Unit-2 (660MW)	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	28	IS: 11255 Part 1
2	Stack gas Temperature	°C	126	IS: 11255 Part 1
3	Barometric Pressure	mmHg	753.14	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.5	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	Sampling Time	Minutes	45	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	23	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.73	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	24.80	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	26.43	IS: 11255 Part 1

30/10

Idma Laboratories Ltd. Dipti Jain Asst.Tech. Manager Panchkula

30/10/25

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

LAB NO.		2710251-016 TEST REPORT		Page No. 2/2
16	CO2	%	11	IS: 13270
17	Oxygen	%	8.1	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	228.36	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	265.53	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	716.04	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	832.60	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0014	LATS/80 /2013-2014 /CPCB Manual

EndofReport*

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

Idma Laboratories Ltd. Kanter Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	271025N-E-017	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.10.2025	
Location of Sampling	Boiler Unit-3 (660MW)	
Date of Receiving of sample	27.10.2025	
Period of Analysis	27.10.2025 to 30.10.2025	
Date of Reporting	30.10.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	29	IS: 11255 Part 1
2	Stack gas Temperature	°C	125	IS: 11255 Part 1
3	Barometric Pressure	mmHg	753.19	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.6	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	18.9	IS: 11255 Part 1
9	Sampling Time	Minutes	46	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	24	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3559290.48	IS: 11255 Part 1
12	Moisture	%	2.3	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.91	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	24.99	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	26.23	IS: 11255 Part 1

Idma Laboratories Limited

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Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

TEST REPORT

LAB NO.		271025N-E-017		Page No. 2/2
16	CO2	%	11	IS: 13270
17	Oxygen	%	7.9	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	246.51	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	282.26	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	765.32	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	848.92	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0013	LATS/80 /2013-2014 /CPCB Manual

EndofReport*

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

30/10/25

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-007	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	Boiler Unit-1 (660MW)	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 17.10.2025	
Date of Reporting	17.10.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	29	IS: 11255 Part 1
2	Stack gas Temperature	°C	123	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.62	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.3	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.2	IS: 11255 Part 1
9	Sampling Time	Minutes	38	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	27	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.87	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	24.95	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	26.19	IS: 11255 Part 1

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Idma Laboratories Limited

TEST REPORT

LAB NO.		131025N-E-007		Page No. 2/2
16	CO2	%	11	IS: 13270
17	Oxygen	%	7.9	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	221.65	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	253.80	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	735.08	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	841.69	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0012	LATS/80 /2013-2014 /CPCB Manual

EndofReport*

Authorised by

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Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-008	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	Boiler Unit-2 (660MW)	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 17.10.2025	
Date of Reporting	17.10.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	28	IS: 11255 Part 1
2	Stack gas Temperature	°C	127	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.61	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.1	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.4	IS: 11255 Part 1
9	Sampling Time	Minutes	39	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	26	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	23.19	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	25.53	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	26.76	IS: 11255 Part 1

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Idma Laboratories Limited

TEST REPORT

LAB NO.		131025N-E-008		Page No. 2/2
16	CO2	%	10.9	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	238.42	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	275.10	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	728.35	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	840.40	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0014	LATS/80 /2013-2014 /CPCB Manual

End of Report*

Authorised by

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TEST REPORT

LAB NO.	131025N-E-009	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.10.2025	
Location of Sampling	Boiler Unit-3 (660MW)	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 17.10.2025	
Date of Reporting	17.10.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	29	IS: 11255 Part 1
2	Stack gas Temperature	°C	125	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19	IS: 11255 Part 1
9	Sampling Time	Minutes	40	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	26	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	24.13	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	26.32	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	27.84	IS: 11255 Part 1

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Idma Laboratories Limited

TEST REPORT

LAB NO.		131025N-E-009		Page No. 2/2
16	CO2	%	11	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	223.51	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	257.90	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	733.25	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	846.06	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0013	LATS/80 /2013-2014 /CPCB Manual

EndofReport*

Authorised by

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Reviewed by

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TEST REPORT

LAB NO.	231125N-E-418	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	21.11.2025	
Location of Sampling	Boiler Unit-1 (660MW)	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 28.11.2025	
Date of Reporting	28.11.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	22	IS: 11255 Part 1
2	Stack gasTemperature	°C	121	IS: 11255 Part 1
3	Barometric Pressure	mmHg	753.21	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.6	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19	IS: 11255 Part 1
9	SamplingTime	Minutes	42	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	23	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	21.32	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	23.69	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	26.65	IS: 11255 Part 1

28/11/25

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Idma Laboratories Ltd. Kartar Singh Technical Manager Panchkula

Idma Laboratories Limited

TEST REPORT

LAB NO.		231125N-E-418		Page No. 2/2
16	CO2	%	10.8	IS: 13270
17	Oxygen	%	9	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	224.26	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	280.33	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	733.25	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	916.56	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0011	LATS/80 /2013-2014 /CPCB Manual

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Authorised by 28/11/25

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	231125N-E-419	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	21.11.2025	
Location of Sampling	Boiler Unit-2 (660MW)	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 28.11.2025	
Date of Reporting	28.11.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Amblent Temperature	°C	25	IS: 11255 Part 1
2	Stack gasTemperature	°C	124	IS: 11255 Part 1
3	Barometric Pressure	mmHg	753.15	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.6	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.2	IS: 11255 Part 1
9	SamplingTime	Minutes	44	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	23	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.84	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	27.41	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	26.56	IS: 11255 Part 1

28/11/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.		231125N-E-419		Page No. 2/2
16	CO2	%	10	IS: 13270
17	Oxygen	%	8.1	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	228.31	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	265.48	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	716.21	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	832.80	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0013	LATS/80 /2013-2014 /CPCB Manual

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Reviewed by 28/11/25

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TEST REPORT

LAB NO.	231125N-E-420	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	21.11.2025	
Location of Sampling	Boiler Unit-3 (660MW)	
Date of Receiving of sample	23.11.2025	
Period of Analysis	23.11.2025 to 28.11.2025	
Date of Reporting	28.11.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	20	IS: 11255 Part 1
2	Stack gasTemperature	°C	126	IS: 11255 Part 1
3	Barometric Pressure	mmHg	753.19	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.5	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	SamplingTime	Minutes	45	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.96	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	27.55	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	26.49	IS: 11255 Part 1

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Idma Laboratories Limited

TEST REPORT

LAB NO.		231125N-E-420		Page No. 2/2
16	CO2	%	10	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	246.55	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	284.48	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	765.32	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	883.06	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0012	LATS/80 /2013-2014 /CPCB Manual

EndofReport

Authorised by 28/11/25

Reviewed by 28/11/25

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Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

LAB NO.	111125N-E-418	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Boiler Unit-1 (660MW)	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 15.11.2025	
Date of Reporting	15.11.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	24	IS: 11255 Part 1
2	Stack gasTemperature	°C	124	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.66	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.4	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	SamplingTime	Minutes	38	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	28	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.9	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	22.90	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	26.02	IS: 11255 Part 1

15/11/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.		111125N-E-418		Page No. 1/2
16	CO2	%	12	IS: 13270
17	Oxygen	%	7.8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	221.87	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm^3	252.13	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	736.01	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm^3	835.32	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0013	LATS/80 /2013-2014 /CPCB Manual

EndofReport

Authorised by 15/11/25

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-419	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Boiler Unit-2 (660MW)	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 15.11.2025	
Date of Reporting	15.11.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	26	IS: 11255 Part 1
2	Stack gasTemperature	°C	121	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.32	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.3	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.2	IS: 11255 Part 1
9	SamplingTime	Minutes	41	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	23	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	23.26	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	25.84	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	29.08	IS: 11255 Part 1

15/11/25

15/11/25

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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TEST REPORT

LAB NO.		111125N-E-419		Page No. 1/2
16	CO2	%	10.8	IS: 13270
17	Oxygen	%	9	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	239.15	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	298.94	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	727.65	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	840.99	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0013	LATS/80 /2013-2014 /CPCB Manual

EndofReport

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TEST REPORT

LAB NO.	111125N-E-420	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type ofSample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collectionof Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	07.11.2025	
Location of Sampling	Boiler Unit-3 (660MW)	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 15.11.2025	
Date of Reporting	15.11.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	26	IS: 11255 Part 1
2	Stack gasTemperature	°C	123	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.59	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.1	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	SamplingTime	Minutes	42	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	4023545.76	IS: 11255 Part 1
12	Moisture	%	2.6	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	24.18	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	24.18	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	27.90	IS: 11255 Part 1

15/11/25

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TEST REPORT

LAB NO.		111125N-E-420		Page No. 2/2
16	CO2	%	12	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	223.51	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	257.90	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	733.25	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	846.06	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0013	LATS/80 /2013-2014 /CPCB Manual

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Reviewed by

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TEST REPORT

LAB NO.	151225N-E-401	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	Boiler Unit-1 (660MW)	
Date of Receivingof sample	15.12.2025	
Period of Analysis	15.12.2025 to 18.12.2025	
Date of Reporting	18.12.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	21	IS: 11255 Part 1
2	Stack gas Temperature	°C	120	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	----	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.5	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19	IS: 11255 Part 1
9	Sampling Time	Minutes	40	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	27	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	20.7	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	21.05	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	23.88	IS: 11255 Part 1

Idma Laboratories Limited
Dipti Jain
Asst. Tech. Manager
Panchkula

Idma Laboratories Ltd.
Tech.
Panchkula

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TEST REPORT

LAB NO.		151225N-E-401		Page No. 2/2
16	CO2	%	11.8	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	232.54	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	268.32	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	749.62	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	864.95	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0014	LATS/80 /2013-2014 /CPCB Manual

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Idma Laboratories Limited

TEST REPORT

LAB NO.	151225N-E-402	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.12.2025	
Location of Sampling	Boiler Unit-2 (660MW)	
Date of Receivingof sample	15.12.2025	
Period of Analysis	15.12.2025 to 18.12.2025	
Date of Reporting	18.12.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	22	IS: 11255 Part 1
2	Stack gas Temperature	°C	118	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.56	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.2	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	Sampling Time	Minutes	42	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	24	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.46	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	24.73	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	27.84	IS: 11255 Part 1

18/12/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.		151225N-E-402		Page No. 2/2
16	CO2	%	10.9	IS: 13270
17	Oxygen	%	8.9	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	244.36	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	302.93	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	733.95	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	909.86	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0015	LATS/80 /2013-2014 /CPCB Manual

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Authorised by 18/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 18/12/25

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

LAB NO.	261225N-E-401	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321, INDIA.	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	Boiler Unit-1 (660MW)	
Date of Receivingof sample	26.12.2025	
Period of Analysis	26.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	20	IS: 11255 Part 1
2	Stack gas Temperature	°C	121	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.59	IS: 11255 Part 1
4	Fuel	....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.6	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.3	IS: 11255 Part 1
9	Sampling Time	Minutes	42	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	26	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	21.56	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	21.74	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	25.07	IS: 11255 Part 1

30/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Idma Laboratories Ltd. Karan Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.		261225N-E-401		Page No. 2/2
16	CO2	%	11.9	IS: 13270
17	Oxygen	%	8.1	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	226.35	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	263.20	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	749.62	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	871.65	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0012	LATS/80 /2013-2014 /CPCB Manual

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	261225N-E-402	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321, INDIA.	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	Boiler Unit-2 (660MW)	
Date of Receivingof sample	26.12.2025	
Period of Analysis	26.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	21	IS: 11255 Part 1
2	Stack gas Temperature	°C	120	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19	IS: 11255 Part 1
9	Sampling Time	Minutes	40	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	24	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	23.04	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	25.13	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	28.33	IS: 11255 Part 1

30/12/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.		261225N-E-402		Page No. 2/2
16	CO2	%	11	IS: 13270
17	Oxygen	%	8.8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	235.41	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	289.44	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	724.98	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	891.37	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0013	LATS/80 /2013-2014 /CPCB Manual

30/12/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	261225N-E-403	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	23.12.2025	
Location of Sampling	Boiler Unit-3 (660MW)	
Date of Receivingof sample	26.12.2025	
Period of Analysis	26.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	21	IS: 11255 Part 1
2	Stack gas Temperature	°C	119	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.2	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.3	IS: 11255 Part 1
9	Sampling Time	Minutes	42	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	24	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	23.71	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	24.11	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	27.36	IS: 11255 Part 1

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Idma Laboratories Limited

TEST REPORT

LAB NO.		261225N-E-403		Page No. 2/2
16	CO2	%	11.8	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	228.03	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	263.11	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	741.36	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	855.42	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0014	LATS/80 /2013-2014 /CPCB Manual

Endof Report

Reviewed by 3/1/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by 01/1/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	190126N-E-415	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	15.01.2026	
Location of Sampling	Boiler Unit-1 (660MW)	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	20	IS: 11255 Part 1
2	Stack gas Temperature	°C	127	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.56	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.4	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	18.9	IS: 11255 Part 1
9	Sampling Time	Minutes	42	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	26	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	21.6	IS: 11255 Part 1
14	Particulate Matter on 12 % CO2	mg/Nm^3	20.41	IS: 11255 Part 1
15	Particulate Matter on 6 % O2	mg/Nm^3	24.92	IS: 11255 Part 1
16	CO2	%	12.7	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	333.8	IS: 11255 Part 7
20	NOx at 6 % O2	mg/Nm^3	385.15	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1346.5	IS: 11255 Part 2
22	SO2at 6 % O2	mg/Nm^3	1553.65	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0015	LATS/80 /2013-2014 /CPCB Manual

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TEST REPORT

LAB NO.	190126N-E-416	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	Boiler Unit-2 (660MW)	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	21	IS: 11255 Part 1
2	Stack gas Temperature	°C	122	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.56	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.1	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19	IS: 11255 Part 1
9	Sampling Time	Minutes	44	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	21.86	IS: 11255 Part 1
14	Particulate Matter on 12 % CO2	mg/Nm^3	23.85	IS: 11255 Part 1
15	Particulate Matter on 6 % O2	mg/Nm^3	25.03	IS: 11255 Part 1
16	CO2	%	11	IS: 13270
17	Oxygen	%	7.9	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	361.52	IS: 11255 Part 7
20	NOx at 6 % O2	mg/Nm^3	413.95	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1391.2	IS: 11255 Part 2
22	SO2at 6 % O2	mg/Nm^3	1592.98	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0014	LATS/80 /2013-2014 /CPCB Manual

23/01/26

Reviewed by

Endof Report

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LAB NO.	190126N-E-417	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	13.01.2026	
Location of Sampling	Boiler Unit-3 (660MW)	
Date of Receiving of sample	19.01.2026	
Period of Analysis	19.01.2026 to 23.01.2026	
Date of Reporting	23.01.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	21	IS: 11255 Part 1
2	Stack gas Temperature	°C	124	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.56	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.3	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.2	IS: 11255 Part 1
9	Sampling Time	Minutes	45	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.74	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	23.88	IS: 11255 Part 1
14	Particulate Matter on 12 % CO2	mg/Nm^3	24.28	IS: 11255 Part 1
15	Particulate Matter on 6 % O2	mg/Nm^3	27.77	IS: 11255 Part 1
16	CO2	%	11.8	IS: 13270
17	Oxygen	%	8.1	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	288.14	IS: 11255 Part 7
20	NOx at 6 % O2	mg/Nm^3	335.05	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1402.8	IS: 11255 Part 2
22	SO2at 6 % O2	mg/Nm^3	1631.16	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0013	LATS/80 /2013-2014 /CPCB Manual

Reviewed by 23/01/26

End of Report

Authorised by

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - I,

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Tel No. 0172 - 5064827,- 5064830

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Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Idma Laboratories Ltd. Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-415	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	Boiler Unit-1 (660MW)	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	23	IS: 11255 Part 1
2	Stack gas Temperature	°C	125	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.5	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	Sampling Time	Minutes	43	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3559290.48	IS: 11255 Part 1
12	Moisture	%	2.3	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.08	IS: 11255 Part 1
14	Particulate Matter on 12 % CO2	mg/Nm^3	22.08	IS: 11255 Part 1
15	Particulate Matter on 6 % O2	mg/Nm^3	25.48	IS: 11255 Part 1
16	CO2	%	12	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	317.5	IS: 11255 Part 7
20	NOx at 6 % O2	mg/Nm^3	366.35	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1342.4	IS: 11255 Part 2
22	SO2at 6 % O2	mg/Nm^3	1548.92	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0013	LATS/80 /2013-2014 /CPCB Manual

EndofReport

Authorised by

Dipti Jain
Asst. Tech Manager
Idma Laboratories Ltd.
Panchkula

Reviewed by

Karan Singh
Tech. Mgt.
Idma Laboratories Ltd.
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Idma Laboratories Limited

TEST REPORT

LAB NO.		270126N-E-416	Page No. 1/1
Customer		M/sNorthKaranpuraSuperThermalPowerProject,POST-	
Work Order No.		4000322280-037-1019	
Type of Sample		Boiler Stack Emission	
Quantity		1	
Packing,Markings		Thimble packed in Plastic Box.	
Mode of collection of Sample		Sampling by Laboratories	
Sample Collected by		Idma Lab Representative	
Date of Sampling		24.01.2026	
Location of Sampling		Boiler Unit-2 (660MW)	
Date of Receiving of sample		27.01.2026	
Period of Analysis		27.01.2026 to 30.01.2026	
Date of Reporting		30.01.2026	
Sampling Protocol		CPCB Manual	
S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	24	IS: 11255 Part 1
2	Stack gas Temperature	°C	123	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.1	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	Sampling Time	Minutes	45	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	24	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3404538.72	IS: 11255 Part 1
12	Moisture	%	2.2	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.97	IS: 11255 Part 1
14	Particulate Matter on 12 % CO2	mg/Nm^3	25.29	IS: 11255 Part 1
15	Particulate Matter on 6 % O2	mg/Nm^3	27.79	IS: 11255 Part 1
16	CO2	%	10.9	IS: 13270
17	Oxygen	%	8.6	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	331.6	IS: 11255 Part 7
20	NOx at 6 % O2	mg/Nm^3	401.13	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1378.5	IS: 11255 Part 2
22	SO2at 6 % O2	mg/Nm^3	1667.54	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0015	LATS/80 /2013 2014 /CPCB Manual

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270126N-E-417	Page No. 1/1
Customer	M/sNorthKaranpuraSuperThermalPowerProject,POST-	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Samoling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.01.2026	
Location of Sampling	Boiler Unit-3 (660MW)	
Date of Receiving of sample	27.01.2026	
Period of Analysis	27.01.2026 to 30.01.2026	
Date of Reporting	30.01.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	22	IS: 11255 Part 1
2	Stack gas Temperature	°C	125	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.4	IS: 11255 Part 1
9	Sampling Time	Minutes	44	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	24	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	24.15	IS: 11255 Part 1
14	Particulate Matter on 12 % CO2	mg/Nm^3	24.56	IS: 11255 Part 1
15	Particulate Matter on 6 % O2	mg/Nm^3	28.30	IS: 11255 Part 1
16	CO2	%	11.8	IS: 13270
17	Oxygen	%	8.2	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	265.71	IS: 11255 Part 7
20	NOx at 6 % O2	mg/Nm^3	311.38	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1325.7	IS: 11255 Part 2
22	SO2at 6 % O2	mg/Nm^3	1553.55	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0012	LATS/80 /2013-2014 /CPCB Manual

Reviewed by

Dipti Jain
Asst. Tech. Manager
Idma Laboratories Ltd.
Panchkula

End of Report

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-415	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Boiler Unit-1 (660MW)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	25	IS: 11255 Part 1
2	Stack gas Temperature	°C	134	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.2	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	SamplingTime	Minutes	45	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.3	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	21.76	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	26.55	IS: 11255 Part 1
16	CO2	%	12.3	IS: 13270
17	Oxygen	%	8.4	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	342.65	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm^3	407.92	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1352.47	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm^3	1610.08	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0014	LATS/80 /2013-2014 /CPCB Manual

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TEST REPORT

LAB NO.	140226N-E-416	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Boiler Unit-2 (660MW)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	25	IS: 11255 Part 1
2	Stack gas Temperature	°C	136	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	18.8	IS: 11255 Part 1
9	SamplingTime	Minutes	45	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	21.74	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	23.29	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	25.08	IS: 11255 Part 1
16	CO2	%	11.2	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	354.28	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm^3	408.78	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1379.62	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm^3	1591.87	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0013	LATS/80 /2013-2014 /CPCB Manual

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TEST REPORT

LAB NO.	140226N-E-417	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	09.02.2026	
Location of Sampling	Boiler Unit-3 (660MW)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	25	IS: 11255 Part 1
2	Stack gas Temperature	°C	127	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.57	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.2	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19	IS: 11255 Part 1
9	SamplingTime	Minutes	44	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	26	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	24.05	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	24.25	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	27.97	IS: 11255 Part 1

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TEST REPORT

LAB NO.		140226N-E-417		Page No. 2/2
16	CO2	%	11.9	IS: 13270
17	Oxygen	%	8.1	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	237.45	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	276.10	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	1421.57	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	1652.99	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0014	LATS/80 /2013-2014 /CPCB Manual

EndofReport

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TEST REPORT

LAB NO.	270226N-E-415	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	Boiler Unit-1 (660MW)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	26	IS: 11255 Part 1
2	Stack gas Temperature	°C	132	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.59	IS: 11255 Part 1
4	Fuel	----	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.4	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.2	IS: 11255 Part 1
9	SamplingTime	Minutes	42	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	26	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	21.94	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	22.31	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	25.71	IS: 11255 Part 1

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Idma Laboratories Ltd. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.		270226N-E-415		Page No. 2/2
16	CO2	%	11.8	IS: 13270
17	Oxygen	%	8.2	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	326.15	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	382.21	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	1334.69	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	1564.09	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0012	LATS/80 /2013-2014 /CPCB Manual

EndofReport

Tested by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270226N-E-416	Page No. 1/2
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing,Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	Boiler Unit-2 (660MW)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	26	IS: 11255 Part 1
2	Stack gas Temperature	°C	134	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	----	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.1	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19	IS: 11255 Part 1
9	SamplingTime	Minutes	44	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3559290.48	IS: 11255 Part 1
12	Moisture	%	2.3	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	23.12	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	25.22	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	27.09	IS: 11255 Part 1

02/03/26
Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

2/3/26
Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.		270226N-E-416		Page No. 2/2
16	CO2	%	11	IS: 13270
17	Oxygen	%	8.2	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm³	324.17	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm³	379.89	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm³	1382.96	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm³	1620.66	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm³	0.0013	LATS/80 /2013-2014 /CPCB Manual

EndofReport

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst Tech Manager Panchkula

Reviewed by

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TEST REPORT

LAB NO.	270226N-E-417	Page No. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing, Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.02.2026	
Location of Sampling	Boiler Unit-3 (660MW)	
Date of Receiving of sample	27.02.2026	
Period of Analysis	27.02.2026 to 02.03.2026	
Date of Reporting	02.03.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	26	IS: 11255 Part 1
2	Stack gas Temperature	°C	133	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.59	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	SamplingTime	Minutes	45	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3868794	IS: 11255 Part 1
12	Moisture	%	2.5	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	23.66	IS: 11255 Part 1
14	Particulate Matter on 12%CO2	mg/Nm^3	23.66	IS: 11255 Part 1
15	Particulate Matter on6%O2	mg/Nm^3	27.30	IS: 11255 Part 1
16	CO2	%	12	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	273.15	IS: 11255 Part 7
20	NOx at 6%O2	mg/Nm^3	315.17	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1341.28	IS: 11255 Part 2
22	SO2 at 6%O2	mg/Nm^3	1547.63	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0014	LATS/80 /2013-2014 /CPCB Manual

Reviewed by

"Endof Report"

Authorised by

Idma Laboratories Ltd. Dipti Jain Assistant Tech. Manager Panchkula

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TEST REPORT

LAB NO.		070326N-E-415		Page No. 1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)		
Work Order No.		4000322280-037-1019		
Type of Sample		Boiler Stack Emission		
Quantity		1		
Packing, Markings		Thimble packed in Plastic Box.		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		03.03.2026		
Location of Sampling		Boiler Unit-1 (660MW)		
Date of Receiving of sample		07.03.2026		
Period of Analysis		07.03.2026 to 12.03.2026		
Date of Reporting		12.03.2026		
Sampling Protocol		CPCB Manual		
S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	30	IS: 11255 Part 1
2	Stack gas Temperature	°C	138	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.56	IS: 11255 Part 1
4	Fuel	----	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.2	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	18.8	IS: 11255 Part 1
9	Sampling Time	Minutes	46	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	24	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3249786.96	IS: 11255 Part 1
12	Moisture	%	2.1	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	23.4	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	23.21	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	27.42	IS: 11255 Part 1
16	CO2	%	12.1	IS: 13270
17	Oxygen	%	8.2	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	354.65	IS: 11255 Part 7
20	NOx at 6% O2	mg/Nm^3	415.61	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1371.42	IS: 11255 Part 2
22	SO2 at 6% O2	mg/Nm^3	1607.13	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0015	LATS/80 /2013-2014 /CPCB Manual

End of Report

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TEST REPORT

LAB NO.		070326N-E-416		PageNo. 1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)		
Work Order No.		4000322280-037-1019		
Type of Sample		Boiler Stack Emission		
Quantity		1		
Packing, Markings		Thimble packed in Plastic Box.		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		03.03.2026		
Location of Sampling		Boiler Unit-2 (660MW)		
Date of Receiving of sample		07.03.2026		
Period of Analysis		07.03.2026 to 12.03.2026		
Date of Reporting		12.03.2026		
Sampling Protocol		CPCB Manual		
S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	31	IS: 11255 Part 1
2	Stack gas Temperature	°C	142	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.56	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.2	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19	IS: 11255 Part 1
9	Sampling Time	Minutes	44	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.08	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	24.09	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	25.28	IS: 11255 Part 1
16	CO2	%	11	IS: 13270
17	Oxygen	%	7.9	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	347.65	IS: 11255 Part 7
20	NOx at 6% O2	mg/Nm^3	398.07	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1362.48	IS: 11255 Part 2
22	SO2 at 6% O2	mg/Nm^3	1560.09	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0012	LATS/80 /2013-2014 /CPCB Manual

End of Report

Reviewed by

Dibti Jain, Asst. Tech. Manager, Idma Laboratories Ltd., Panchkula

Authorised by

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TEST REPORT

LAB NO.		070326N-E-417		PageNo. 1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)		
Work Order No.		4000322280-037-1019		
Type of Sample		Boiler Stack Emission		
Quantity		1		
Packing, Markings		Thimble packed in Plastic Box.		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		03.03.2026		
Location of Sampling		Boiler Unit-3 (660MW)		
Date of Receiving of sample		07.03.2026		
Period of Analysis		07.03.2026 to 12.03.2026		
Date of Reporting		12.03.2026		
Sampling Protocol		CPCB Manual		
S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	31	IS: 11255 Part 1
2	Stack gas Temperature	°C	132	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	Sampling Time	Minutes	46	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	24	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3559290.48	IS: 11255 Part 1
12	Moisture	%	2.3	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	23.71	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	23.71	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	27.57	IS: 11255 Part 1
16	CO2	%	12	IS: 13270
17	Oxygen	%	8.1	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	241.36	IS: 11255 Part 7
20	NOx at 6% O2	mg/Nm^3	280.65	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1392.87	IS: 11255 Part 2
22	SO2 at 6% O2	mg/Nm^3	1619.62	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0013	LATS/80 /2013-2014 /CPCB Manual

End of Report

Reviewed by

Authorised by

Idma Laboratories Limited
Kartar Singh Tech. Mgr.
Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.		270326N-E-415		PageNo. 1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)		
Work Order No.		4000322280-037-1019		
Type of Sample		Boiler Stack Emission		
Quantity		1		
Packing, Markings		Thimble packed in Plastic Box.		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		24.03.2026		
Location of Sampling		Boiler Unit-1 (660MW)		
Date of Receiving of sample		27.03.2026		
Period of Analysis		27.03.2026 to 31.03.2026		
Date of Reporting		31.03.2026		
Sampling Protocol		CPCB Manual		
S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	32	IS: 11255 Part 1
2	Stack gas Temperature	°C	136	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	----	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.2	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	18.9	IS: 11255 Part 1
9	Sampling Time	Minutes	44	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3404538.72	IS: 11255 Part 1
12	Moisture	%	2.2	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	21.54	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	21.72	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	25.24	IS: 11255 Part 1
16	CO2	%	11.9	IS: 13270
17	Oxygen	%	8.2	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	319.25	IS: 11255 Part 7
20	NOx at 6% O2	mg/Nm^3	374.12	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1291.65	IS: 11255 Part 2
22	SO2 at 6% O2	mg/Nm^3	1513.65	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0011	LATS/80 /2013-2014 /CPCB Manual

End of Report

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Idma Laboratories Limited

TEST REPORT

LAB NO.	270326N-E-416	PageNo. 1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Boiler Stack Emission	
Quantity	1	
Packing, Markings	Thimble packed in Plastic Box.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	24.03.2026	
Location of Sampling	Boiler Unit-2 (660MW)	
Date of Receiving of sample	27.03.2026	
Period of Analysis	27.03.2026 to 31.03.2026	
Date of Reporting	31.03.2026	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	32	IS: 11255 Part 1
2	Stack gas Temperature	°C	136	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	----	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.3	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19.1	IS: 11255 Part 1
9	Sampling Time	Minutes	46	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	24	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	23.12	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	25.69	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	26.68	IS: 11255 Part 1
16	CO2	%	10.8	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	331.64	IS: 11255 Part 7
20	NOx at 6% O2	mg/Nm^3	382.66	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1348.55	IS: 11255 Part 2
22	SO2 at 6% O2	mg/Nm^3	1556.02	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0014	LATS/80 /2013-2014 /CPCB Manual

End of Report

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Idma Laboratories Limited

TEST REPORT

LAB NO.		270326N-E-417		PageNo. 1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)		
Work Order No.		4000322280-037-1019		
Type of Sample		Boiler Stack Emission		
Quantity		1		
Packing, Markings		Thimble packed in Plastic Box.		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		24.03.2026		
Location of Sampling		Boiler Unit-3 (660MW)		
Date of Receiving of sample		27.03.2026		
Period of Analysis		27.03.2026 to 31.03.2026		
Date of Reporting		31.03.2026		
Sampling Protocol		CPCB Manual		
S.No.	Test Parameters	Units	Results	Test Method
1	Ambient Temperature	°C	31	IS: 11255 Part 1
2	Stack gas Temperature	°C	135	IS: 11255 Part 1
3	Barometric Pressure	mmHg	752.58	IS: 11255 Part 1
4	Fuel	.....	Coal	IS: 11255 Part 1
5	Stack Height	Meters	275	IS: 11255 Part 1
6	Stack Dia	Meters	7.4	IS: 11255 Part 1
7	Stack gas Pressure	mm/Hg	5.1	IS: 11255 Part 1
8	Stack gas Velocity	m/sec	19	IS: 11255 Part 1
9	Sampling Time	Minutes	44	IS: 11255 Part 1
10	Sampling Flow Rate	LPM	25	IS: 11255 Part 1
11	Volumetric Flow Rate	Nm^3/hr	3714042.24	IS: 11255 Part 1
12	Moisture	%	2.4	IS: 11255 Part 1
13	Particulate Matter on dry basis	mg/Nm^3	22.98	IS: 11255 Part 1
14	Particulate Matter on 12% CO2	mg/Nm^3	22.79	IS: 11255 Part 1
15	Particulate Matter on 6% O2	mg/Nm^3	26.52	IS: 11255 Part 1
16	CO2	%	12.1	IS: 13270
17	Oxygen	%	8	IS: 13270
18	CO	%	<0.1	IS: 13270
19	NOx at dry basis	mg/Nm^3	259.35	IS: 11255 Part 7
20	NOx at 6% O2	mg/Nm^3	299.25	IS: 11255 Part 7
21	SO2 at dry basis	mg/Nm^3	1312.51	IS: 11255 Part 2
22	SO2 at 6% O2	mg/Nm^3	1514.43	IS: 11255 Part 2
23	Mercury as Hg	mg/Nm^3	0.0013	LATS/80 /2013-2014 /CPCB Manual

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Final Report

Review of Hydrogeology to assess impact of NKSTPP on surface and ground water (especially around ash dyke) and propose specific mitigation measures

(Based on Pre-and Post-monsoon monitoring of 2023 and 2024)

Submitted to
NTPC North Karanpura Super Thermal Power Project
Post: Tandwa, District: Chatra, Jharkhand

Submitted by
Prof. Manoj Kumar Jain (PI)
Prof. Brijesh Kumar Yadav (Co-PI)

DEPARTMENT OF HYDROLOGY
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE (UTTARAKHAND), INDIA

JANUARY 2025

Title	Review of Hydrogeology to assess impact of NKSTPP on surface and ground water (especially around ash dyke) and propose specific mitigation measures. A study conducted by the Department of Hydrology, Indian Institute of Technology Roorkee, Roorkee – 247667 (Uttarakhand)
Client	NTPC Limited
Disclaimer	While every opportunity has been taken to ensure the accuracy of the material presented in this document, IIT-R cannot be held responsible for errors or omissions but reserve the right to provide further clarification or consultation. The opinion contained in this report is our personal, professional opinion and should not be considered as the opinion of IIT Roorkee.
Document No.	HYD-6004/2023-24/FR
PO reference	5500042490-037-1035
Consultants	Prof. Manoj Kumar Jain, Department of Hydrology Prof. Brijesh K. Yadav, Department of Hydrology Indian Institute of Technology, Roorkee, Uttarakhand 247667, India
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Date	28 January 2025

EXECUTIVE SUMMARY

THE STUDY AREA

North Karanpura Super Thermal Power Project is located between the Magadh coal block and Garhi river near the village Kamta / Tandwa in the Simaria subdivision of the Chatra district, Jharkhand. at 23°51'02"N, 85°00'44"E. The area surrounding the power plant is fairly levelled and sparsely populated. The surrounding area is mostly a monsoon-fed agricultural area with a single crop. The geographic extent of the study area has been taken as an area within 12 km from the periphery of the project boundary. The study area is covered in Survey of India toposheets 73E/1 & 73A/1.

OBJECTIVES OF THE STUDY

The main objectives of the study consist of the following:

Surface Water Hydrology

a) Any change in the drainage pattern of the study area with respect to previous years.
b) Status of identified surface water bodies, if any (including degenerated water bodies) within the study area (12 km radius from the plant boundary), their exploitation and potential for development of degenerated water bodies. Recommendations by consultant to improve the condition of degenerated water bodies by NTPC.
c) Surface water level monitoring using already existing Scale/gauge at Check Dam site of Garhi river monitoring on a half-yearly basis.
d) To study the surface water quality at identified location and current sources of contamination, if any.

e) To study the impact of post construction activity and operation of thermal power plant on surface water w.r.t pre-construction period/Previous year.
f) Status of rainwater harvesting at NTPC premises with quantity of accumulated rainwater due to rainwater harvesting and status of watershed management at study area.
g) Recommendation/suggestions to NTPC for taking site specific mitigation measures.

Ground Water Hydrology

To review the changes with respect to previous study

a) Define the present hydro-geological scenario of the study area through water table contour map & ground water flow direction map.
b) Assessment of groundwater depletion if any.
c) Estimation of annual recharge and utilisation of ground water during operation of NKSTPP.
d) Status of Implementation of NTPC Rainwater harvesting Policy. Enumerate any increase/decrease in the potentials for rainwater harvesting and suggestions for augmenting ground water recharge.
e) To study on groundwater quality at identified locations and current sources of contamination, if any.
f) To study the impact of post construction activity and operation of thermal power plant and ash pond on ground water during the year.
g) Data collection from existing monitoring network for annual review and monitoring of ground water levels and quality.
h) Coordinates of tube wells of Plant & Township area & their locations shall be provided on Geo reference maps.
i) Recommendation/suggestions to NTPC for taking site specific mitigation measures.

However, the consultant is free to recommend any additional observation/finding apart from reviewing the hydrogeological condition with respect to the previous study.

SUMMARY OF THE STUDY

Drainage Pattern and Watershed of the Study Area

The drainage pattern of the study area was studied using Survey of India topographic sheets and satellite data/google earth images of the current year. A Digital Elevation Model (DEM) of the study area was also utilized to study the existing drainage pattern. The drainage network extracted from Survey of India toposheets was compared with recent drainage information derived from DEM and Google earth images/other available satellite images. No significant change in the drainage pattern was noticed. The plant area is drained by the Garhi Nadi, which is a tributary of the Damodar River. The Garhi Nadi is formed after the confluence of Barki Nadi and Chandru Nadi near the north-eastern boundary of the plant. The Garhi Nadi meets the Damodar river at about 5 km south of the project area near the village Kingra.

The watershed of the Garhi Nadi was delineated using SRTM DEM. The confluence of Garhi Nadi with the Damodar River was taken as the outlet of the watershed. The total area of the Garhi watershed at its outlet point at the confluence with the Damodar River is 559.68 km^2.

Establishment of groundwater level monitoring stations and their monitoring

The groundwater table was monitored directly in existing open wells and tube wells of the study area during pre-monsoon and post-monsoon seasons using a dipmeter. The water table contour maps of both the seasons of the study area show flow regimes similar to the groundwater flow regimes reported in the past. Also, the groundwater contour map of the entire Chatra district during pre- and post-monsoon seasons (2012-13) reported by CGWB shows a comparable groundwater fluctuation pattern with the current observations of the area. This indicates that the dynamic groundwater resources of the study area are not depleted during the past decade because of the plant development in the area. Due to differential groundwater extraction patterns, the groundwater flow

pattern seems to change locally during the pre- and post-monsoon periods. In general, the groundwater flow follows the surface drainage pattern and flows mostly in the south and southeast direction to the plant.

Surface water level monitoring at Check Dam site of Garhi Nadi

The existing staff gauge was monitored during pre- and post-monsoon visits to record the status of stored water in the Check dam. A site photograph showing the staff gauge and water level was taken during each visit, and the same is provided in the report for the record.

Surface water and groundwater monitoring of heavy metals

Surface water and groundwater samples from the plant site and its surrounding areas were collected and brought to the laboratory of IIT Roorkee. The samples were analysed in the Institute Instrumentation centre of IIT Roorkee for monitoring heavy metals. The concentration of heavy metals in the pre- and post-monsoon periods in the years 2021, 2022, 2023 and pre-monsoon 2024 were analysed. Some trace metals show variations while comparing the yearly and seasonal data, such as arsenic (As) and Manganese (Mn). In comparison to the BIS (2012) limit, some traces of Arsenic (As) were reported in the post-monsoon period of 2021; however, in the other periods (pre-monsoon 2021, pre- and post-monsoon 2022, 2023), Arsenic was not observed or found within the prescribed BIS (2012) limits for drinking water. The concentration of Mn, Cd, and Pb reduced significantly in post-monsoon period sampling during both years showing the dilution impact. Major cations and anions, on the other hand, were studied before and after the monsoon season, and it was noticed that the majority of the ions were within the BIS permissible limit (2012). Although sulfate, fluoride, and nitrate concentrations were marginally higher in a few samples of the pre-monsoon period of 2021, they appear to be diluted in the post-monsoon period of 2021. A similar pattern was also observed for the year 2022 and 2023. Overall, the geological formations of the area and the presence

of coal mines in the near vicinity of the study area could be the possible reason for the presence of some trace metals in water samples.

No significant change in the water quality parameters is observed in the study area during the pre- and post-monsoon seasons of the last four years (i.e. 2021, 2022, 2023, and 2024). The presence of trace metals like Al and Fe is found in some water samples. Fe was found mainly in the old hand pumps, which seems to be due to rusting of the well cashing. The aggressive purging process reduced the Fe level in these sampling points. Aluminium seems to be high due to the geogenic formation of the area and shall be treated for potable water supply. No deterioration trend has been observed from pre-monsoon 2021 to post-monsoon season 2024 in the area.

Hydrogeology of the Area

The Chatra district's Tandwa region is surrounded by a complicated tectonic structure and a variety of geological formations. The lower and upper Gondwanas comprise the geological formations of carbonaceous shale, sandstone, coal seams, and red clay. Groundwater occurs mostly in phreatic conditions in all lithological units of the area and sometimes locally in semiconfined and confined conditions in deeper aquifers.

Specific remedial measures based upon the monitoring report of water samples for any deterioration observed during the sampling period.

No deterioration trend of the water resources is observed from Pre-monsoon 2021 to post-monsoon 2024 in the area. Some of the sampling sites are observed to have poor maintenance conditions and need to be avoided for further sampling. Trace metals like Al and Fe have been present in some water samples during the last three seasons. An aggressive purging process is required for further monitoring of the area to avoid the possible existence of the Fe in well casings.

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1 INTRODUCTION

NTPC Ltd. is a Public Sector Undertaking (PSU) engaged in generating electricity and allied activities. It is the largest power company in India, with an electric power generation capacity of more than 68,962 MW. From fossil fuels, it has forayed into generating electricity via hydro, nuclear and renewable energy sources. NTPC currently operates 51 power stations, including 23 coal based, 7 gas based, 1 hydro, 1 wind, 18 solar, and 1 small hydro plant. Further, it has 9 coal and 4 gas station, 8 hydro-based and 5 renewable energy projects owned by joint ventures or subsidiaries. In May 2010, NTPC was conferred Maharatna status by the Union Government of India.

1.1 North Karanpura Super Thermal Power Project (NKSTPP)

The North Karanpura Super Thermal Power Project (NKSTPP) of NTPC Limited is a coal-based thermal power plant located between the Magadh coal block and Garhi river near the villages Kamta and Tandwa in the Simaria subdivision of the Chatra district, Jharkhand. The NKSTPP is located at 23°51'02"N, 85°00'44"E. The area surrounding the power plant is fairly levelled and sparsely populated. The surrounding area is mainly a monsoon-fed agricultural area with a single crop. The installed capacity of the power plant is 1980 MW (3x660 MW).

The NKSTPP is well connected by air, train, and road. The nearest airport Ranchi is 100 km from the plant. The nearest railway station Ray on the Sone Nagar – Daltonganj section of Eastern Railways, is located approximately 20 km away from the power plant. The power plant and township are accessible from NH-33 connecting Hazaribagh and Ranchi. The water requirements of the power plant are met from the dam/reservoir constructed across the Garhi river, a tributary of the Damodar River. The coal requirement for NKSTPP is met from the Magadh block of the North Karanpura coal fields of CCL. The coal is being transported from the coal block to the plant through a Pipe Conveyor system.

1.2 OBJECTIVES OF THE STUDY

Thermal power projects consume large quantities of water for their operation, which is generally obtained from surface water sources, which may affect the surface water hydrology of the area. In addition, there are certain structures and activities, which may affect the ground water hydrology by dewatering etc. Further, fresh water is becoming a scarce resource day by day, NTPC understands its responsibility towards the conservation of surface and ground water resources for the benefit of the project as well as the general population within the study area, i.e., within 12 km. from the boundary of the project. In view of the above, the main objectives of the study may be summarised as follows:

1.2.1 *Surface Water Hydrology*

a) Any change in the drainage pattern of the study area with respect to previous years.
b) Status of identified surface water bodies, if any (including degenerated water bodies) within the study area (12 km radius from the plant boundary), their exploitation and potential for development of degenerated water bodies. Recommendations by consultant to improve the condition of degenerated water bodies by NTPC.
c) Surface water level monitoring using already existing Scale/gauge at Check Dam site of Garhi river monitoring on a half-yearly basis.
d) To study the surface water quality at identified location and current sources of contamination, if any.
e) To study the impact of post construction activity and operation of thermal power plant on surface water w.r.t pre-construction period/Previous year.
f) Status of rainwater harvesting at NTPC premises with quantity of accumulated rainwater due to rainwater harvesting and status of watershed management at study area.

g) Recommendation/suggestions to NTPC for taking site specific mitigation measures.

1.2.2 *Ground Water Hydrology*

To review the changes with respect to previous study:

a) Define the present hydro-geological scenario of the study area through water table contour map & ground water flow direction map.
b) Assessment of groundwater depletion if any.
c) Estimation of annual recharge and utilisation of ground water during operation of NKSTPP.
d) Status of Implementation of NTPC Rainwater harvesting Policy. Enumerate any increase/decrease in the potentials for rainwater harvesting and suggestions for augmenting ground water recharge.
e) To study on groundwater quality at identified locations and current sources of contamination, if any.
f) To study the impact of post construction activity and operation of thermal power plant and ash pond on ground water during the year.
g) Data collection from existing monitoring network for annual review and monitoring of ground water levels and quality.
h) Coordinates of tube wells of Plant & Township area & their locations shall be provided on Geo reference maps.
i) Recommendation/suggestions to NTPC for taking site specific mitigation measures.

However, the consultant is free to recommend any additional observation/finding apart from reviewing the hydrogeological condition with respect to the previous study.

1.2.3 *Geographical Extent of the Study Area*

The geographic extent of the study area shall consist of an area within 12 km from the periphery of the project boundary. Figure 1 shows the index map of

the plant location, and Figure 2 shows the 12 km geographic extent of the study area drawn on Survey of India toposheets (73E/1 & 73A/1).



Figure 1. Index map showing the location of NTPC North Karanpura Power Station

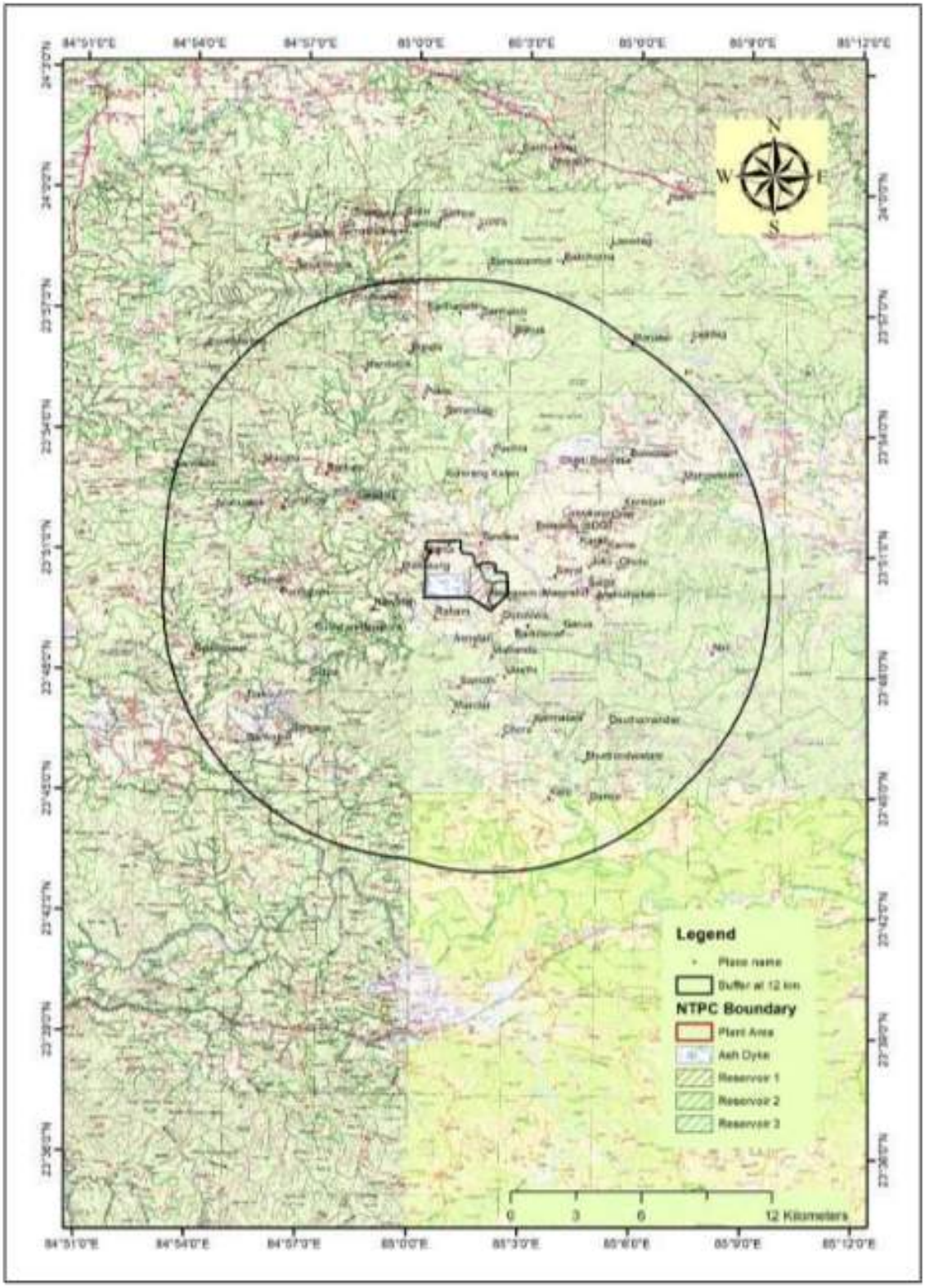


Figure 2. The geographic extent of study area shown with a 12 km buffer on Survey of India toposheets.

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2 SURFACE WATER HYDROLOGY

2.1 *The drainage pattern of the study area*

The drainage pattern of the study area was studied using Survey of India topographic sheets (shown in Figure 2) and satellite data/google earth images of the current year. A Digital Elevation Model (DEM) of the study area was also utilized to study the existing drainage pattern. A DEM of the area is shown in Figure 3. The area in the vicinity and in southeast and southwest directions of NKSTPP is hilly, as shown in Figure 3. The eastern side of the NKSTPP is having a higher elevation. The drainage network extracted from Survey of India toposheets was compared with recent drainage information derived from DEM and Google earth images/other available satellite images. No significant change in the drainage pattern was noticed. The NKSTPP area is drained by the Garhi Nadi, which is a tributary of the Damodar River. The Garhi Nadi is formed after the confluence of Barki Nadi and Chandru Nadi near the north-eastern boundary of NKSTPP. The drainage pattern of Garhi Nadi within a 12 km radius of the NKSTPP boundary is shown in Figure 4. As can be seen from Figure 4, the study area is located about 2 km from the right bank of the Garhi Nadi, and many minor drains originating in and around the study area finally meet the Garhi Nadi at its right bank. The Garhi Nadi meets the Damodar River at about 11 km south of the project area near the village Kingra.

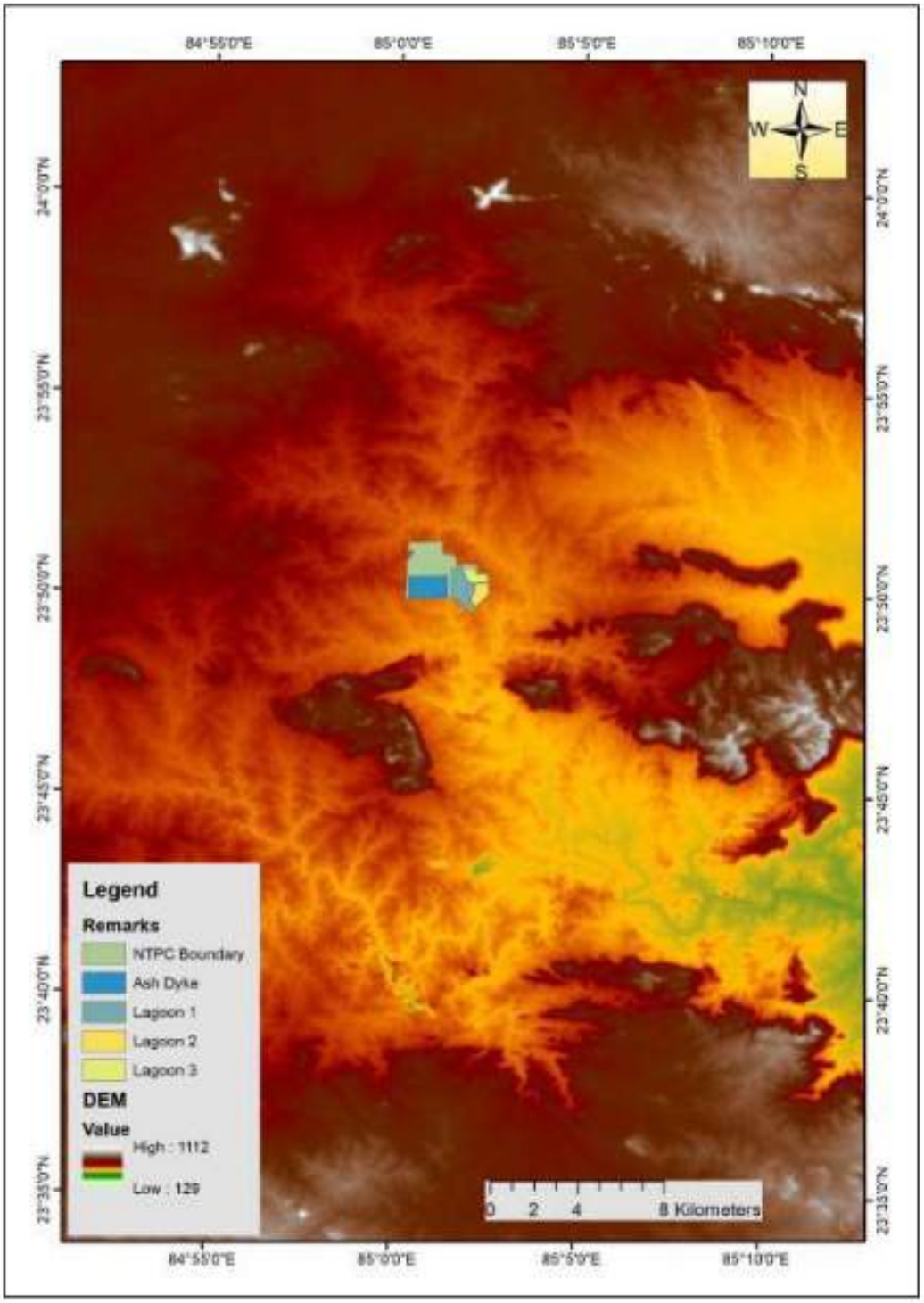


Figure 3. The DEM of the area surrounding the NTPC North Karanpura plant site.

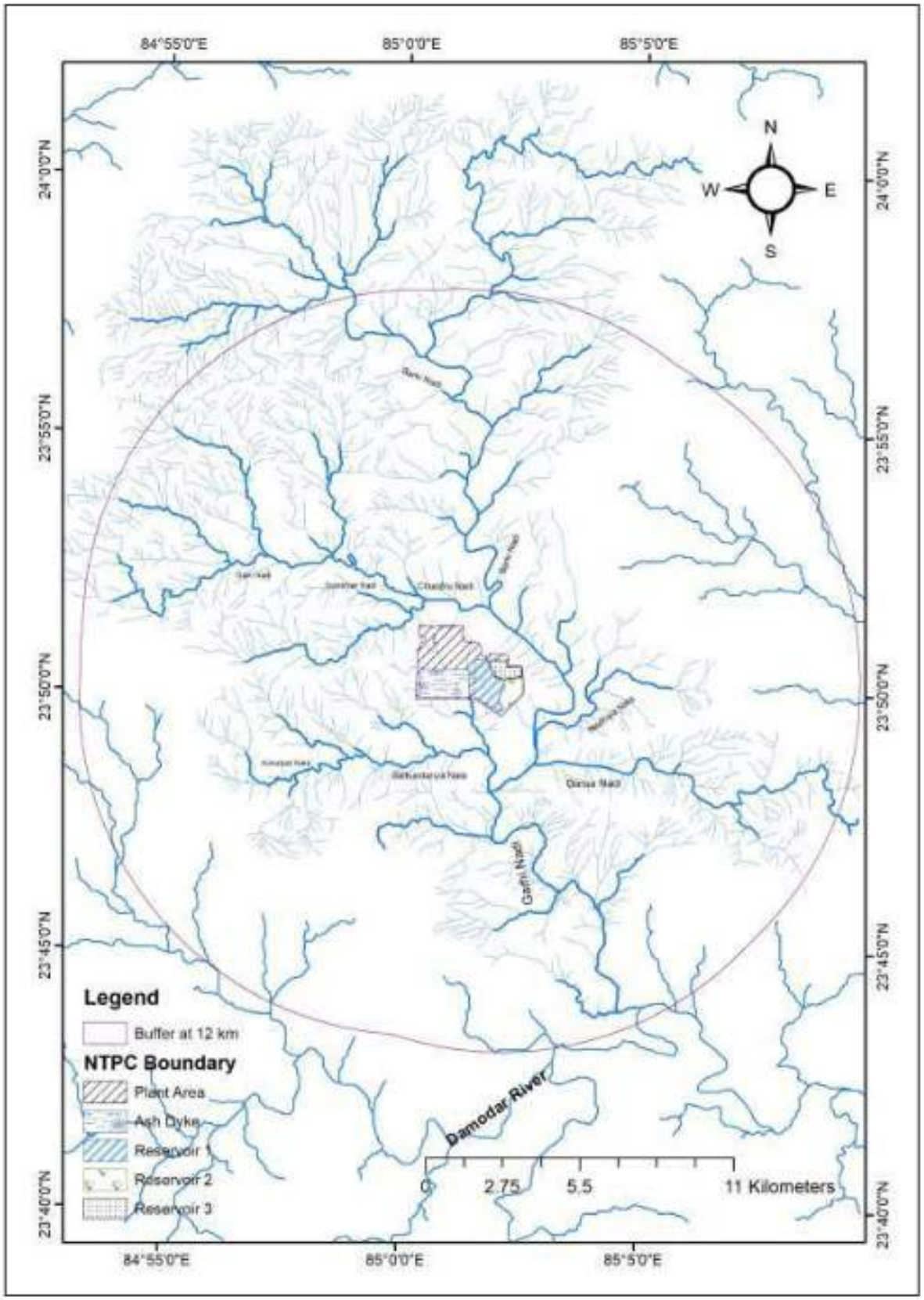


Figure 4. The drainage pattern of the study area

2.2 *Status of Identified Surface Water Bodies*

Water bodies in the study area mainly consist of ponds (Talav), and natural drains. The present status of the surface water bodies in the study area (12 km radius) was studied based on the analysis of Landsat 8 satellite images for path 141 row 043 acquired on 20 April 2023 and 21 October 2023 (during pre-and post-monsoon season). The acquired pre- and post-monsoon images are shown in Figure 7 and Figure 8, respectively. These images were acquired from the USGS data portal (https://earthexplorer.usgs.gov/) and analysed to map the extent of water bodies present within a 12 km radius from the NTPC plant boundary with limited ground-truthing during field visits. The acquired images were classified using a supervised classification method. Classified land use map of the area (within 12 km radius) is shown in Figure 9. Classified land uses and their statistics is presented in Table 1. As can be seen from Table 1, the area within 12 km radius from the plant is dominated by agriculture (43%) and forest land (37%). A significant area within 12 km radius is under mining (6.85%). Area under water bodies is only 7 km^2 (including the area of reservoir created within the plant area), which is about 1.16% of the area within 12 km buffer. Three prominent waters bodies (other than reservoir created in the plant area) could be seen on classified land use map shown in Figure 9. These ponds and rivers play an important role in augmenting the area's groundwater resources and must be monitored regularly.

Field visit to some of these prominent water bodies was conducted during pre-monsoon visits of June 26 – 28, 2023 to observe the status and need for rejuvenation. Keredari pond in one of the prominent water bodies in the area. A photograph of the lake taken during the pre-monsoon visit on June 27, 2023, is shown in Figure 5. Another small pond was also visited near Hanuman mandir on June 27, 2023, and the same is shown in Figure 6.



Figure 5. View of Keredari pond during site visit on June 27, 2023.



Figure 6. View of pond near Hanuman Mandir (OS33) during site visit on June 27, 2023.

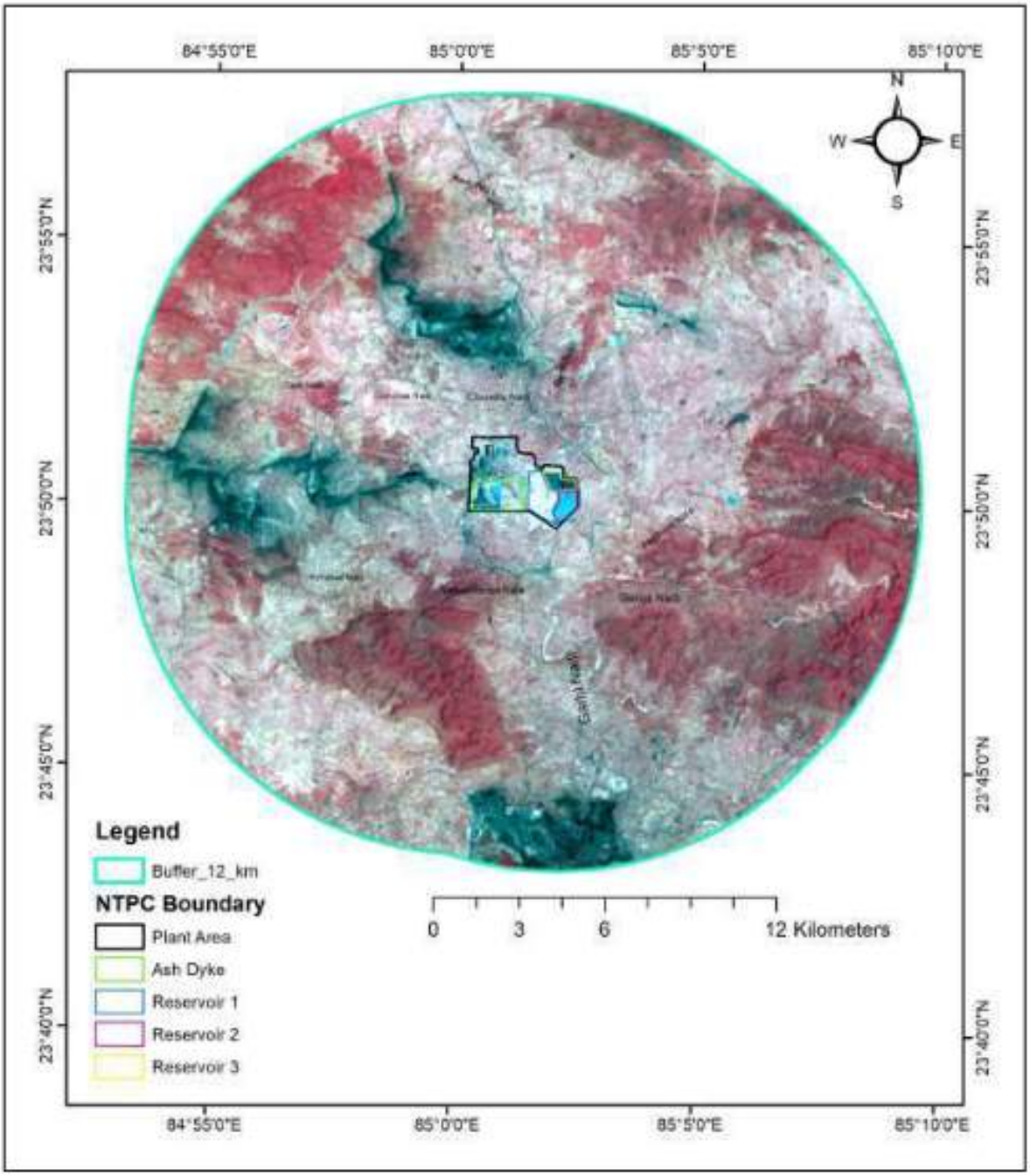


Figure 7. Landsat 8 satellite data for pre-monsoon 2023 season (DOP: 20.4.2023).

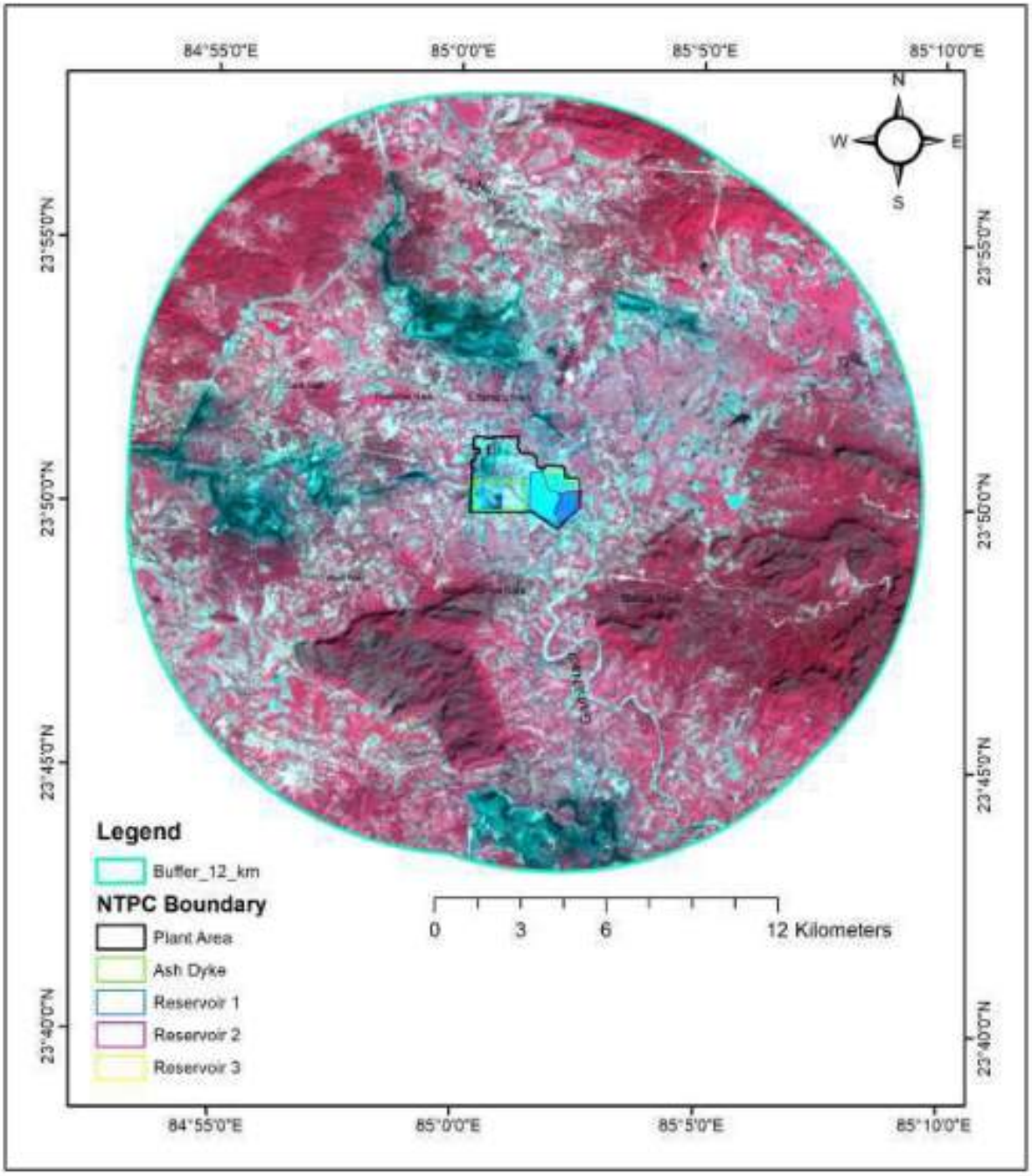


Figure 8. Landsat 8 satellite data for post-monsoon 2023 season (DOP: 21.10.2023).

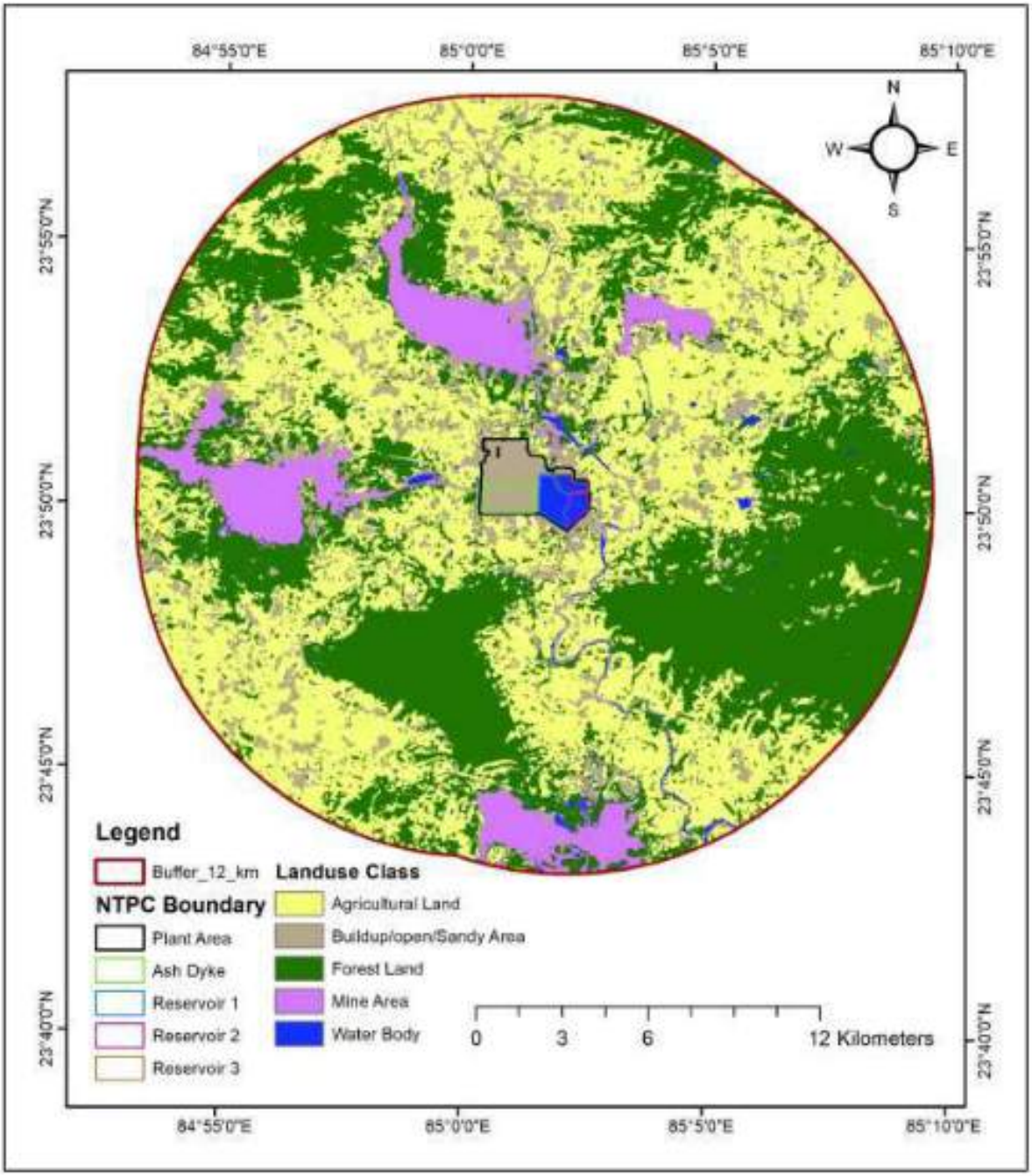


Figure 9. Landuse map of study area depicting extent of identified waterbodies during 2023.

Table 1. Landuse classes and their statistics within study area (12 km radius from plant)

Class Name	Area (sq. km.)	% of the total area
Water Body	7.02	1.16
Forest Land	226.49	37.42
Agriculture Area	264.72	43.73
Mine Area	41.47	6.85
Buildup/open/Sandy area	65.61	10.84
Total	605.31	100

2.3 Surface water level monitoring using already existed Scale/gauge at Check Dam site of Garhi Nadi

The surface water level in the Dam on Garhi Nadi was monitored during pre- and post-monsoon visits. The photograph taken during the site visit and the gauge reading are given below.

2.3.1 *Surface water level during pre-monsoon 2023*

The team visited the check dam site on June 28 , 2023, and found the gates of the check dam closed, allowing minor base flow to pass to the downstream side, and the water level was found below the lowest marking level of the staff gauge installed in the check dam as shown in Figure 10. So, the dam was empty during the pre-monsoon 2023 visit, and the gauge reading was 433 m, which corresponds to ground level in the dam.



Figure 10. Site photograph of water level gauge and check dam on June 28, 2023, during the pre-monsoon period.

2.3.2 *Surface water level during post-monsoon 2023*

On November 8, 2023, the team conducted a site visit to the check dam and observed that the dam gates were open, facilitating a minor base flow downstream. The water level was noted to be below the lowest marking level of the staff gauge, as depicted in Figure 11. Consequently, during the post-monsoon visit in 2023, the dam appeared to be empty, with the gauge reading recorded at 433 meters, indicating the ground level within the dam.



Figure 11. Site photograph of water level gauge and check dam on November 8, 2023, during the post-monsoon period.

2.3.3 *Surface water level during pre-monsoon 2024*

Figure 12 shows the Surface water level during the pre-monsoon season of the year 2024. The Surface water level during pre-monsoon was similar to that observed during the previous year (2023) pre-monsoon, as discussed in section 2.3.1. The dam was empty during the pre-monsoon 2024 visit, and the gauge reading was 433 m, which corresponds to the ground level in the dam.



Figure 12. Site photograph of water level gauge and check dam taken in year 2024, during the pre-monsoon period.

2.3.4 *Surface water level during post-monsoon 2024*

Error! Reference source not found. shows the Surface water level during the post-monsoon season of the year 2024. The Surface water level during pre-monsoon was similar to that observed during the previous year (2023) pre-monsoon, as discussed in section 2.3.1. The dam was empty during the post-monsoon 2024 visit, and the gauge reading was 433 m, which corresponds to the ground level in the dam.



Figure 13 Site photograph of water level gauge and check dam taken in year 2024, during the post-monsoon period.

2.4 Surface Water Quality at Identified Location and Current Sources of Contamination, If Any

A reconnaissance survey of the NTPC North Karanpura (Tandwa, Jharkhand) plant area, ash dyke, and surrounding area of the plant, including the pumping station at Garhi Nadi, was undertaken. The team identified several observation points for data collection of surface water samples. Accordingly, water samples from surface ponds, rivers, and ash dyke areas were collected from the identified data collection points in and around the plant boundary. Identified sampling points with their locations are given in Table 2 and Table 3 for pre and post monsoon season for year 2023, respectively. The location of identified observation points is shown on a map in Figure 14.

Table 2. Surface water sampling locations in and around NTPC North Karanpura station during pre-monsoon period of 2023

S. No.	Site code	Type of site/location	Latitude	Longitude	Type of Analysis
1	OS-12	Garhi River/Tandwa	23.85674	85.03336	Ex-situ
2	OS-14	Garhi River/Kasaha DPS	23.86546	85.00205	In-situ and Ex-situ
3	OS-23	Garhi River	23.79011	85.04322	In-situ and Ex-situ
4	OS- 24	Garhi River	23.74898	85.069	In-situ and Ex-situ
5	OS-29	Garhi River	23.93336	85.02205	In-situ and Ex-situ
6	OS-33	Pond	23.8838	85.08946	In-situ and Ex-situ
7	OS-35	Pond	23.86359	85.09739	In-situ and Ex-situ
8	OS-48	Ash Dyke	23.84009	85.01138	In-situ and Ex situ
9	OS-49	Reservoir	23.84376	85.03216	In-situ and Ex situ

Table 3. Surface water sampling locations in and around NTPC North Karanpura station during post-monsoon period of 2023

S. No.	Site code	Type of site/location	Latitude	Longitude	Type of Analysis
1	OS-12	Garhi River/Tandwa	23.85674	85.03336	Ex-situ
2	OS-14	Garhi River/Kasaha DPS	23.86546	85.00205	In-situ and Ex-situ
3	OS-23	Garhi River	23.79011	85.04322	Discarded
4	OS- 24	Garhi River	23.74898	85.069	In-situ and Ex-situ
5	OS-29	Garhi River	23.93336	85.02205	In-situ and Ex-situ
6	OS-33	Pond	23.8838	85.08946	In-situ and Ex-situ
7	OS-35	Pond	23.86359	85.09739	In-situ and Ex-situ
8	OS-48	Ash Dyke	23.84009	85.01138	In-situ and Ex situ
9	OS-49	Reservoir	23.84376	85.03216	In-situ and Ex situ
10	OS-50	Lake	23.84339000	84.94763000	Insitu and Ex situ
11	OS-51	Lake	23.83462000	84.98462000	Insitu and Ex situ
12	OS-52	Overflow Lagoon	23.83148267	85.00980400	Insitu and Ex situ

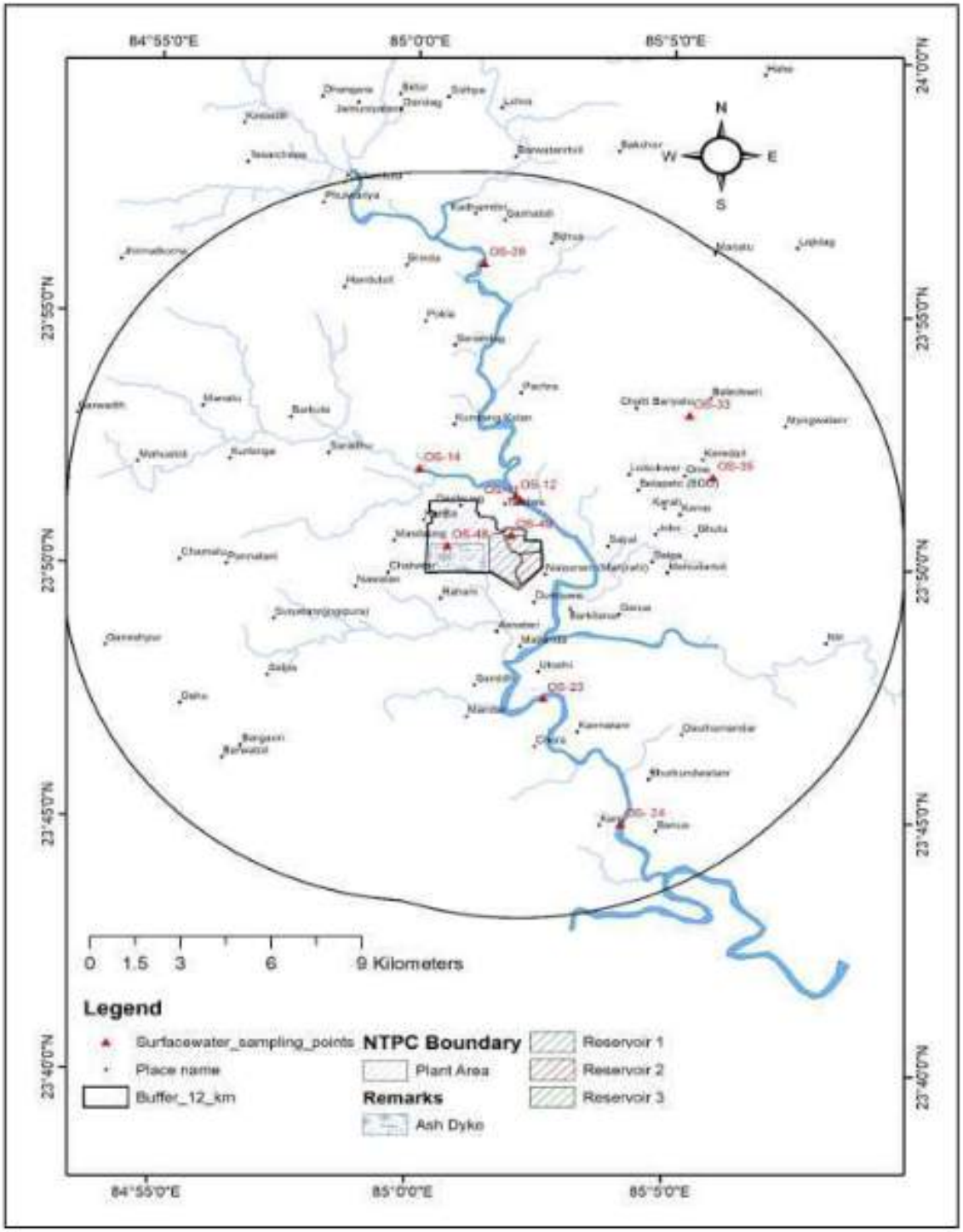


Figure 14. Map depicting identified surface water sampling points during pre-monsoon period.

2.4.1 *Surface Water Quality monitoring pre-monsoon 2023*

During the In-situ analysis of the samples, pH, TDS (Total dissolved solids), EC (Electrical Conductivity), DO (Dissolved Oxygen), and temperature were measured at the water collection site using the multi-meter electrode. The result of In-situ analysis for the pre-monsoon period is listed in Table 4

The pH values for the water samples range from 5.82 to 7.98. The highest pH value was recorded for sample OS-14, measuring 7.98, indicating slightly alkaline conditions. On the other hand, sample OS-48 had the lowest pH of 5.82, suggesting slightly acidic conditions. However, the average pH value for all samples falls within the neutral to slightly alkaline range. Electrical conductivity (EC) values vary from 0.17 mS to 1.19 mS. The highest EC value was observed in sample OS-33, measuring 1.19 mS, indicating relatively high ion concentration. In contrast, sample OS-24 had the lowest EC value of 0.17 mS, suggesting lower ion content. The average EC for the dataset falls within the range of low to moderate conductivity. Likewise, total dissolved solids (TDS) values span from 80 ppm to 590 ppm. Sample OS-33 exhibited the highest TDS at 590 ppm, while sample OS-24 had the lowest TDS at 80 ppm. Dissolved oxygen (DO) levels range from 5.79 mg/l to 9.84 mg/l. The highest DO level was recorded for sample OS-29, measuring 9.84 mg/l, indicating well-oxygenated water. In contrast, sample OS-35 had the lowest DO level of 5.79 mg/l. The average DO level for all samples falls within the typical range for freshwater environments. Temperature (T) measurements range from 26.7°C to 31.2°C. Sample OS-24 recorded the highest temperature of 31.2°C, while sample OS-35 had the lowest temperature of 26.7°C. These temperature values provide insights into the thermal conditions of the water samples.

Table 4. Mean values of pH, EC, TDS, DO, and temperature observed during In-situ analysis in pre-monsoon period 2023.

S. No.	Code	pH	EC (mS)	TDS (ppm)	DO (mg/l)	E (m)	T (°C)
1	OS-12			Only Ex-situ			
2	OS-14	7.98	0.3	140	8.63	451	27.3
3	OS-23	7.87	0.34	160	6.25	465	29.6
4	OS- 24	7.27	0.17	80	6.7	463	31.2
5	OS-29	7.16	0.25	120	9.84	467	27.8
6	OS-33	7.84	1.19	590	7.2	450	26.9
7	OS-35	7.97	0.27	130	5.79	453	28.2
8	OS-48	5.82	0.45	220	8.93	456	26.7
9	OS-49	6.54	0.24	120	6.04	459	27.4
BIS Limits (2012)	AL	6.5-8.5	NS	500	NS	-	-
	PL	NR		2000			

Notations: E: elevation; T: temperature; AL: acceptable limit; PL: permissible limit; NR: no relaxation; NS: Not specified

Samples collected during pre-monsoon season were bought to IIT Roorkee Laboratories for further analysis. Heavy metals, and major ions were analysed in the collected water samples using inductively coupled plasma mass spectrometry/Microwave plasma atomic emission spectroscopy (ICP-MS/MP-AES) and Ion Chromatography (IC) for finding the concentration.

All the samples were first acid digested, diluted to a suitable degree, filtered through a 0.45-micron filter, and then proceed for ICP-MS/MP-AES analysis. The purpose of acid digestion was to destroy the matrix, which otherwise interferes during atomization. Also, digestion converts all forms of metal into a single oxidation state. Samples are analysed using ICP-MS for Li, B, Al, Cr, Cd, Mn, Fe, Co, Ni, Cu, Zn, As, Sr, Ag, Ba, Hg, and Pb, listed in Table 5. Apart from this, samples were analysed using ion chromatography (IC) for Ca, Mg, Na, K, Cl, SO_4^{2-}, F^-, and NO_3^- and results are listed in Table 6. All the water quality analysis results are compared with Bureau of Indian Standards (BIS) code IS 10500:2012 to check the groundwater quality status.

The measured concentrations in parts per million (ppm) of heavy metals are listed in Table 5. Lithium (Li) has the mean concentration of 0.015 ppm, ranging

from BDL to 0.126 ppm. The mean concentration of Boron (B) is 0.05 ppm, with values varying from 0.01 ppm to 0.23 ppm. Aluminum (Al) concentrations range between 0.12 ppm to 7.77 ppm with mean value of 1.82 ppm. Chromium (Cr) concentration spanning from BDL to 0.15 ppm with an average of 0.11 ppm. Manganese (Mn) concentrations ranged from BDL ppm to 0.43 ppm with a mean value of 0.12 ppm. Iron (Fe) concentrations exhibit a mean value of 0.76 ppm, with values varying from a minimum of 0.09 ppm to a maximum of 1.85 ppm. Cobalt (Co) concentrations are relatively low, with a mean value of 0.004 ppm, ranging from a minimum of 0.001 ppm to a maximum of 0.014 ppm. Nickel (Ni) concentration spanning from BDL to 0.08 ppm with mean value of 0.05 ppm. Copper (Cu) concentrations range from BDL ppm to 0.05 ppm with an average value of 0.03 ppm. Zinc (Zn) exhibits a mean concentration of approximately 0.20 ppm, with values varying from 0.04 ppm to 0.83 ppm. Arsenic (As) concentrations range from 0.001 ppm to 0.174 ppm with mean value of 0.021 ppm. Strontium (Sr) concentration spanning from 0.07 ppm to 0.40 ppm with an average of 0.13 ppm. Barium (Ba) concentrations have a mean of approximately 0.136 ppm, ranging from a minimum of 0.041 ppm to a maximum of 0.554 ppm. Mercury (Hg) concentrations are also negligible, and lead (Pb) concentrations exhibit a mean of about 0.006 ppm.

The concentration of major ions elements measured in surface water samples and their comparison with BIS limits are listed in Table 6. The Ca concentration ranged from 24.3 ppm to 236.7 ppm, with an average value of 122 ppm. The K concentration ranged from 2.1 ppm to 51.4 ppm, with an average value of 10.1 ppm. Likewise, the Mg concentration ranged from 5.3 ppm to 21.5 ppm, with an average value of 10.6 ppm. Further, the Na content ranged from 11.3 to 29.5 ppm, with an average of 20.8 ppm. The concentration of F ranged from 0.6 to 14 ppm, with an average of 2.9 ppm. The chloride concentration ranged from 10 to 201.8 ppm, with an average of 45.3 ppm. The NO_3 content ranged from below the detection limit (BDL) to 11.1 ppm, with an average of 2.8 ppm. This indicates that the NO_3 concentration in all surface water samples is well within the BIS limit, i.e., 45 ppm. Sulphate concentration ranged from 20.2 ppm to

381.4 ppm, with an average of 119 ppm. The TH content in the present study area ranged from 83 ppm to 626 ppm, with an average of 348.2 ppm. The total alkalinity (TA) ranged from 58 to 164 ppm, with an average of 100.2 ppm.

Table 5. Mean concentration of heavy metals observed in the surface water samples during the pre-monsoon period of 2023 and their comparison with BIS limits of IS 10500:2012

S.No.	Code	Li	B	Al	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Ag	Cd	Ba	Hg	Pb
1	OS-12	0.001	0.02	**1.3**	**0.14**	0.04	0.7	0.004	0.06	0.03	0.11	0.003	0.10	0.001	**0.004**	0.08	BDL	BDL
2	OS-14	BDL	0.02	**1.2**	**0.14**	0.03	0.7	0.003	0.06	0.02	0.10	0.002	0.08	BDL	0.003	0.07	BDL	0.01
3	OS-23	0.006	0.03	**1.3**	**0.15**	0.03	0.7	0.003	0.06	0.03	0.12	0.002	0.10	BDL	0.003	0.08	BDL	BDL
4	OS-24	0.003	0.02	**0.1**	BDL	BDL	0.1	0.001	BDL	BDL	0.04	0.002	0.07	BDL	0.001	0.04	BDL	BDL
5	OS-29	BDL	0.01	**0.6**	**0.07**	0.02	0.4	0.002	0.03	0.01	0.09	0.001	0.07	BDL	0.002	0.05	BDL	BDL
6	OS-33	0.001	0.05	**1.3**	**0.13**	**0.36**	1.9	0.003	0.06	0.02	0.09	0.005	0.40	BDL	0.002	0.55	BDL	BDL
7	OS-35	BDL	0.02	**1.6**	**0.14**	0.07	1.0	0.003	0.06	0.05	0.16	0.002	0.08	BDL	**0.004**	0.11	BDL	0.01
8	OS-48	0.126	0.23	**7.8**	**0.08**	**0.43**	0.6	0.014	0.08	0.05	0.21	0.174	0.22	BDL	**0.005**	0.10	0.002	0.02
9	OS-49	0.002	0.03	**1.2**	**0.12**	0.05	0.8	0.002	0.05	0.05	0.83	0.001	0.07	BDL	**0.004**	0.13	BDL	BDL
BIS Limits	**AL**	**NS**	**0.5**	**0.03**	**0.05**	**0.1**	**0.3**	**NS**	**0.02**	**0.05**	**5**	**0.01**	**NS**	**0.1**	**0.003**	**0.7**	**0.001**	**0.01**
	PL		**1**	**0.2**	**NR**	**0.3**	**NR**		**NR**	**1.5**	**15**	**0.05**		**NR**	**NR**	**NR**	**NR**	**NR**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit

Table 6. Mean concentration of major ions in the surface water samples during pre-monsoon period of 2023 and their comparison with BIS limits of IS 10500:2012

S.No.	Code	Ca	K	Mg	Na	F	Cl	Br	NO_3	PO_4	SO_4	TH	TA
1	OS-12	63.8	3.9	10.8	24.1	**1.8**	63.4	ND	1.0	ND	93.7	204	85
2	OS-14	60.5	3.1	10.9	22.9	1.3	14.1	ND	ND	ND	31.0	196	102
3	OS-23	104.9	4.2	9.5	19.6	1.5	28.9	ND	2.4	ND	77.3	301	113
4	OS-24	24.3	3.4	5.3	18.1	1.4	28.7	ND	2.0	ND	82.1	83	59
5	OS-29	88.7	2.5	8.6	14.4	0.6	10.0	ND	ND	ND	34.2	257	164
6	OS-33	208.1	51.4	21.5	29.5	**1.9**	201.8	ND	11.1	ND	381.4	608	113
7	OS-35	137.7	2.1	13.0	25.4	0.7	22.5	ND	ND	ND	20.2	397	92
8	OS-48	236.7	14.7	8.5	11.3	**14**	21.0	ND	2.4	ND	280.2	626	58
9	OS-49	173.2	5.7	7.3	22	**2.9**	17.3	ND	6.2	ND	71.4	462	116
BIS	**AL**	**75**	**NS**	**30**	**NS**	**1**	**250**	**NS**	**45**	**NS**	**200**	**200**	**200**
Limits	**PL**	**200**		**100**		**1.5**	**1000**		**NR**		**400**	**600**	**600**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit; all the concentration in ppm; TH: Total Hardness; TA: Total alkalinity

TSS, Silica, oil & grease, phenolic compounds (PC), COD, BOD, and MPN were determined in specific samples during the pre-monsoon season. For TSS measurement, samples were filtered, dried, and weighed. Silica, oil & grease, phenolic compounds are measured using the gravimetric method. COD and BOD are measured through the oxidation-titration method. The concentration of BOD, COD, Oil & Grease, silica, MPN, total suspended solids (TSS) obtained in the water samples, and comparison with BIS limits of IS 10500:2012 are listed in Table 7. The maximum BOD was reported in samples OS- 35 located in Keredari village. The COD concentration ranged between 32 mg/L to 182 mg/L. Moreover, most samples show nil MPN value per 100 mL concentration of samples.

Table 7. Concentration of specific elements obtained in the surface water samples and comparison with BIS limits of IS 10500:2012

S.No.	Code	BOD	MPN	O&G	Silica	COD	TSS	PC
1	OS-24	1.5	NIL	ND	3.6	68	3.6	ND
2	OS-29	2.3	<25	ND	1.8	32	3.9	ND
3	OS-33	1.01	NIL	ND	2.9	145	4.4	ND
4	OS-35	3.1	<25	ND	4.1	152	6	ND
5	OS-48	1.2	NIL	ND	1.7	182	2.1	ND
BIS Limits	AL		0	NS	NS	NS	NS	0.001
	PL	NS						0.002

2.4.2 *Surface Water Quality monitoring post-monsoon 2023*

During the In-situ analysis of the samples, pH, TDS (Total dissolved solids), EC (Electrical Conductivity), DO (Dissolved Oxygen), and temperature were measured at the water collection site using the multi-meter electrode. The result of In-situ analysis for the post-monsoon period is listed in Table 8. Map depicting identified surface water sampling points during post-monsoon period is shown in Figure 15. The sampling at location OS-23 could not be carried out due to local protest and disturbances created by the villagers.

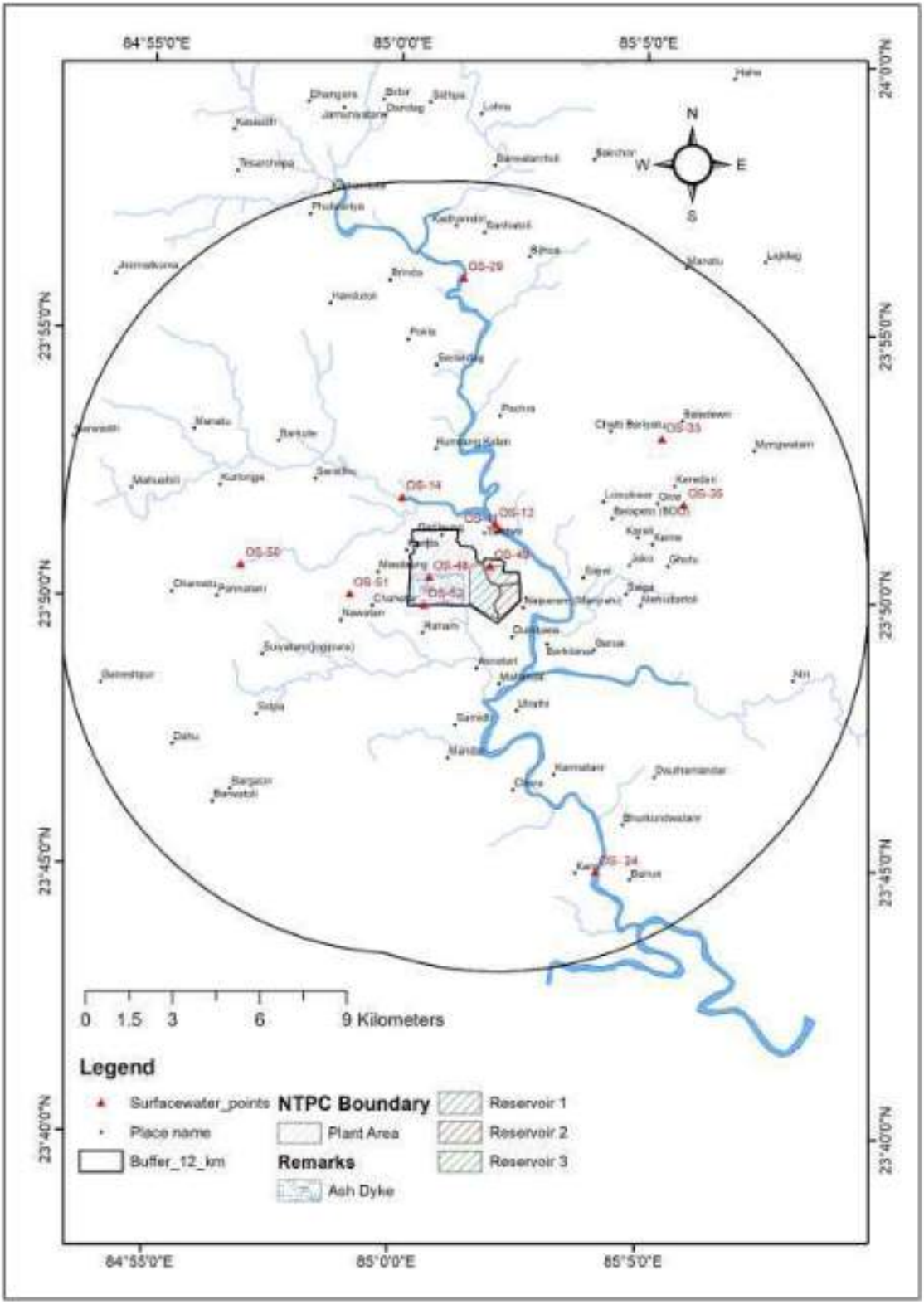


Figure 15. Map depicting identified surface water sampling points during post-monsoon period of 2023.

The pH values for the surface water samples range from 5.9 to 8.24, the average pH value for all samples falls within the neutral to slightly alkaline range i.e. 7.4. Electrical conductivity (EC) values vary from 0.19 mS to 0.51 mS with an average value of 0.4 mS. Total dissolved solids (TDS) values ranged from 90 ppm to 250 ppm with an average value of 170.9 ppm. Dissolved oxygen (DO) levels range from 6.21 mg/l to 11.9 mg/l with an average value of 8 ppm. The average DO level for all samples falls within the typical range for freshwater environments. Temperature (T) measurements range from 24.6°C to 27.8°C with an average value of 26.2°C. These temperature values provide insights into the thermal conditions of the water samples.

Table 8. Mean values of pH, EC, TDS, DO, and temperature observed during In-situ analysis in post-monsoon period 2023.

S.No.	Code	pH	EC (mS)	TDS (ppm)	DO (mg/l)	E (m)	T (°C)
1	OS-12	7.69	0.49	200	6.21	440	26.3
2	OS-14	8.24	0.3	150	8.37	451	24.6
3	OS-23	Site discarded due to unforeseen situation					
4	OS- 24	7.88	0.34	170	7.1	463	27.7
5	OS-29	8.15	0.26	130	11.94	467	27.8
6	OS-33	7.67	0.39	190	7.4	450	26.8
7	OS-35	8.21	0.21	100	10.81	453	26
8	OS-48	5.9	0.51	250	8.17	456	25.4
9	OS-49	7.09	0.19	90	6.21	459	25.8
10	OS-50	7.44	0.34	170	6.49	497	25.4
11	OS-51	7.54	0.39	190	7.73	467	26.7
12	OS-52	5.96	0.49	240	7.12	444	25.2
BIS Limits (2012)	AL	6.5-8.5	NS	500	NS	-	-
	PL	NR		2000			

Notations: E: elevation; T: temperature; AL: acceptable limit; PL: permissible limit; NR: no relaxation; NS: Not specified

Samples were analysed using ICP-MS for Li, B, Al, Cr, Cd, Mn, Fe, Co, Ni, Cu, Zn, As, Sr, Ag, Ba, Hg, and Pb, listed in Table 5. Lithium (Li) has the mean concentration of 0.23 ppm, ranging from 0.001 to 1.24 ppm. The mean concentration of Boron (B) is 0.07 ppm, with values varying from 0.01 ppm to 0.34 ppm. Aluminum (Al) concentrations range between 0.14 ppm to 9.4 ppm with mean value of 1.93 ppm. Chromium (Cr) concentration spanning from 0.02 to 0.26 ppm with an average of 0.04 ppm. Manganese (Mn) concentrations ranged from 0.67 ppm to 17.59 ppm with a mean value of 2.34 ppm. Iron (Fe) concentrations exhibit a mean value of 0.31 ppm, with values varying from a

minimum of 0.14 ppm to a maximum of 1.16 ppm. Cobalt (Co) concentrations are relatively low, with a mean value of 0.004 ppm, ranging from a minimum of 0.001 ppm to a maximum of 0.019 ppm. Nickel (Ni) concentration spanning from 0.01 to 0.23 ppm with mean value of 0.04 ppm. Copper (Cu) concentrations range from 0.003 ppm to 0.038 ppm with an average value of 0.010 ppm. Zinc (Zn) exhibits a mean concentration of approximately 0.05 ppm, with values varying from 0.015 ppm to 0.154 ppm. Arsenic (As) concentrations range from 0.001 ppm to 0.021 ppm with mean value of 0.004 ppm. Strontium (Sr) concentration spanning from 0.057 ppm to 0.291 ppm with an average of 0.141 ppm. Barium (Ba) concentrations have a mean of approximately 0.099 ppm, ranging from a minimum of 0.046 ppm to a maximum of 0.246 ppm. The average mercury (Hg) concentrations are found to be negligible with values ranged from BDL to 0.001 ppm. Lead (Pb) concentrations exhibit a mean of about 0.002 ppm, ranging from a BDL to 0.010 ppm.

Apart from heavy metal analysis, samples were analysed for Ca, Mg, Na, K, Cl, SO_4^{2-}, F^-, and NO_3^- during post monsoon period. The measured observations were compared with Bureau of Indian Standards (BIS-code IS 10500:2012) to check the compliance status of surface water quality, listed in Table 6. The Ca concentration ranged from 17.4 ppm to 59.1 ppm, with an average value of 33.7 ppm. The K concentration ranged from 0.2 ppm to 12.5 ppm, with an average value of 3.5 ppm. Likewise, the Mg concentration ranged from 4.8 ppm to 21.2 ppm, with an average value of 11 ppm. Further, the Na content ranged from 17.3 to 116.9 ppm, with an average of 51.1 ppm. The concentration of F ranged from 0.1 to 14.6 ppm, with an average of 2.9 ppm. The chloride concentration ranged from 5.3 to 29.9 ppm, with an average of 11.9 ppm. The NO_3 content ranged from 0.8 ppm to 5.6 ppm, with an average of 2.5 ppm. This indicates that the NO_3 concentration in all surface water samples is well within the BIS limit, i.e., 45 ppm. Sulphate concentration ranged from 15.7 ppm to 181 ppm, with an average of 76.7 ppm. The TH content in the present study area ranged from 63.2 ppm to 183.4 ppm, with an average of 129.4 ppm. The total alkalinity (TA) ranged from 60 to 175 ppm, with an average of 103.7 ppm.

Table 9. Mean concentration of heavy metals observed in the surface water samples during the post-monsoon period of 2023 and their comparison with BIS limits of IS 10500:2012

S.No.	Code	Li	B	Al	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Ag	Cd	Ba	Hg	Pb
1	OS-12	0.01	0.02	0.1	0.02	0.76	0.2	0.001	0.01	0.007	0.02	0.001	0.2	BDL	0.003	0.10	0.001	BDL
2	OS-14	BDL	0.01	0.1	0.02	0.74	0.2	0.001	0.01	0.004	0.01	0.001	0.1	BDL	0.002	0.06	BDL	BDL
3	OS-23	Site discarded due to unforeseen situation																
4	OS-24	0.06	0.03	0.1	0.02	0.87	0.2	0.001	0.01	0.004	0.03	0.001	0.1	BDL	0.002	0.09	BDL	BDL
5	OS-29	BDL	0.01	0.1	0.02	0.70	0.2	0.001	0.01	0.004	0.05	0.001	0.1	BDL	0.003	0.05	BDL	BDL
6	OS-33	BDL	0.03	0.1	0.02	0.72	0.2	0.001	0.01	0.003	0.03	0.002	0.2	BDL	0.002	0.25	BDL	BDL
7	OS-35	BDL	0.01	0.1	0.02	0.74	0.2	0.001	0.01	0.004	0.04	0.001	0.1	BDL	0.002	0.08	BDL	BDL
8	OS-48	**1.17**	0.28	**9.4**	0.02	**1.34**	0.2	0.013	0.07	0.038	0.15	0.021	0.3	BDL	**0.005**	0.14	BDL	0.01
9	OS-49	0.01	0.03	1.7	0.02	0.82	**0.8**	0.001	0.01	0.004	0.02	0.001	0.1	BDL	0.002	0.06	BDL	BDL
10	OS-50	0.01	0.02	0.14	0.02	0.67	0.14	BDL	0.01	BDL	0.03	BDL	0.13	BDL	0.00	0.07	BDL	BDL
11	OS-51	0.02	0.02	0.1	0.02	0.78	0.2	0.001	0.01	BDL	0.02	BDL	0.1	BDL	0.002	0.06	BDL	BDL
12	OS-52	**1.24**	0.34	**9.1**	0.26	**17.59**	**1.2**	0.019	0.23	0.035	0.15	0.014	0.3	BDL	**0.015**	0.15	0.001	0.01
BIS Limits	**AL**	**NS**	**0.5**	**0.03**	**0.05**	**0.1**	**0.3**	**NS**	**0.02**	**0.05**	**5**	**0.01**	**NS**	**0.1**	**0.003**	**0.7**	**0.001**	**0.01**
	PL		**1**	**0.2**	**NR**	**0.3**	**NR**		**NR**	**1.5**	**15**	**0.05**		**NR**	**NR**	**NR**	**NR**	**NR**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit

Table 10. Mean concentration of major ions in the surface water samples during post-monsoon period of 2023 and their comparison with BIS limits of IS 10500:2012

S. No.	Code	Ca	K	Mg	Na	F	Cl	Br	NO_3	PO_4	SO_4	TH	TA
1	OS-12	40.5	2.4	16.2	117	2.1	8.3	3.1	5.6	ND	82.5	168	90
2	OS-14	31.05	0.15	11.1	58.4	0.55	6.7	3.4	1.8	ND	16.6	123	95
3	OS-23	**Site discarded due to unforeseen situation**											
4	OS-24	33.9	1.35	10.2	60.3	1.22	18.3	3.1	3.0	ND	44.8	127	105
5	OS-29	20.7	0.3	9.15	52.8	0.31	9.2	3.0	1.9	ND	15.7	89.4	65
6	OS-33	26.7	10.8	10.2	69.8	0.51	29.9	2.3	2.0	ND	30.8	109	175
7	OS-35	17.4	0.3	7.05	48.9	0.57	15.8	2.9	0.8	ND	21.0	72.5	110
8	OS-48	53.7	6.6	8.1	38.1	**14.6**	10.1	3.3	5.2	ND	181.0	167	80
9	OS-49	17.4	1.5	4.8	25.2	0.08	10.2	2.2	3.2	ND	60.8	63.2	60
10	OS-50	38.1	0.45	14.3	33.8	0.07	5.3	3.2	1.5	ND	94.76	154	106
11	OS-51	32.25	1.65	21.2	17.3	0.28	7.5	2.2	1.3	ND	130.1	168	120
12	OS-52	59.1	12.45	8.7	40.4	**11.6**	9.4	3.4	1.4	ND	166.1	183	135
BIS	**AL**	**75**	**NS**	**30**	**NS**	**1**	**250**	**NS**	**45**	**NS**	**200**	**200**	**200**
Limits	**PL**	**200**		**100**		**1.5**	**1000**		**NR**		**400**	**600**	**600**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit; all the concentration in ppm; TH: Total Hardness; TA: Total alkalinity

TSS, Silica, oil & grease, phenolic compounds (PC), COD, BOD, and MPN were determined in specific samples during the pre-monsoon season. For TSS measurement, samples were filtered, dried, and weighed. Silica, oil & grease, phenolic compounds are measured using the gravimetric method. COD and BOD are measured through the oxidation-titration method. The concentration of BOD, COD, Oil & Grease, silica, MPN, total suspended solids (TSS) obtained in the surface water samples, and comparison with BIS limits of IS 10500:2012 during post monsoon are listed in Table 11.

Table 11.Concentration of specific elements obtained in the surface water samples and comparison with BIS limits of IS 10500:2012

S.No.	Code	BOD	MPN	O&G	Silica	COD	TSS	PC
1	OS-24	3.9	<100	ND	2.3	102	5.1	ND
2	OS-29	2.7	<125	ND	19	95	2.8	ND
3	OS-33	9.4	NIL	ND	3.1	31	1.1	ND
4	OS-35	2.5	NIL	ND	3.7	147	2.5	ND
5	OS-48	4.2	NIL	ND	1.7	120	1.9	ND
BIS Limits	AL PL	NS	0	NS	NS	NS	NS	0.001 0.002

Overall, the pre and post-monsoon surface water datasets exhibit seasonal variations in some parameters. The pH values remain within the neutral to slightly alkaline range in both periods. EC and TDS show lower values during the post-monsoon, indicating dilution effects. DO levels are consistently favorable for aquatic life in both seasons. Temperature ranges indicate typical conditions for freshwater ecosystems, with slight variations reflecting seasonal changes. Next, comparing the trace element concentrations for pre- and post-monsoon in surface water datasets shows seasonal variations. In the pre-monsoon period, Lithium (Li) averages 0.015 ppm, while post-monsoon sees a notable increase to 0.23 ppm. Similarly, Boron (B) increases from 0.05 ppm to 0.07 ppm. Aluminum (Al) concentrations show a slight rise from 1.82 ppm to

1.93 ppm. Notably, Manganese (Mn) experiences a substantial increase from 0.12 ppm to 2.34 ppm in the post-monsoon period. During the monsoon season, intensified weathering processes and increased precipitation may lead to enhanced leaching of these heavy metals from minerals present in the geological formations. Runoff during the monsoon can facilitate the transport of dissolved heavy metals into surface water, contributing to higher concentrations. Iron (Fe) concentrations decrease from 0.76 ppm to 0.31 ppm, indicating potential dilution effects. Major ions such as Calcium (Ca), Magnesium (Mg), Sodium (Na), and Potassium (K) maintain acceptable levels in both periods. Nitrate (NO_3) concentrations remain well below the BIS limit of 45 ppm, suggesting minimal contamination. These findings highlight the impact of seasonal variability on trace element concentrations and the overall resilience of the surface water system in maintaining compliance with water quality standards.

2.4.3 *Surface Water Quality monitoring pre-monsoon 2024*

Throughout the In-situ analysis of the water samples, pH, EC (Electrical Conductivity), TDS (Total dissolved solids), DO (Dissolved Oxygen), and temperature were measured at the water collection site using the multi-meter electrode. The results of In-situ analysis for the pre-monsoon period of 2024 are listed in Table 12.

The pH level for the water samples ranges from 5.73 to 8.17. The highest pH value was recorded for sample OS-33, measuring 7.91, indicating slightly alkaline conditions. On the other hand, sample OS-52 had the lowest pH of 5.73, suggesting slightly acidic conditions. The average pH value was recorded as 7.31 which falls within the neutral to slightly alkaline range. Electrical conductivity (EC) values vary from 0.10 mS to 1.04 mS. The highest EC value was observed in sample OS-50, measuring 1.04 mS, indicating relatively high ion concentration. In contrast, sample OS-52 had the lowest EC value of 0.10 mS, suggesting lower ion content. The average EC for the dataset falls within the range of low to moderate conductivity. Likewise, total dissolved solids (TDS) values span from 100 ppm to 520 ppm.

Sample OS-50 exhibited the highest TDS at 520- ppm, while sample OS-49 had the lowest TDS at 100 ppm. Dissolved oxygen (DO) levels range from 6.56 mg/l to 9.10 mg/l. The highest DO level was recorded for sample OS-48, measuring 9.10 mg/l, indicating well-oxygenated water. In contrast, sample OS-12 had the lowest DO level of 4.44 mg/l. The average DO Concentration was recorded 7.67 in mg/L. The average DO level for all samples falls within the typical range for freshwater environments. Temperature (T) measurements range from 27.96°C to 34.10°C. Sample OS-35 recorded the highest temperature of 34.1°C, while sample OS-48 had the lowest temperature of 27.96°C. The average temperature was recorded 31.19°C. These temperature values provide insights into the thermal conditions of the water samples.

Samples collected during the pre-monsoon season of 2024 were bought to IIT Roorkee Laboratories for further analysis. Heavy metals, and major ions were analysed in the collected water samples using inductively coupled plasma mass spectrometry/Microwave plasma atomic emission spectroscopy (ICP-MS/MP-AES) and Ion Chromatography (IC). All the samples were first acid digested, diluted to a suitable degree, filtered through a 0.45-micron filter, and then proceed for ICP-MS/MP-AES analysis. The purpose of acid digestion was to destroy the matrix, which otherwise interferes during atomization. Also, digestion converts all forms of metal into a single oxidation state. Samples are analysed using ICP-MS for Li, B, Al, Cr, Cd, Mn, Fe, Co, Ni, Cu, Zn, As, Sr, Ag, Ba, Hg, and Pb, listed in Table 13. Apart from this, samples were analysed using ion chromatography (IC) for Ca, Mg, Na, K, Cl, SO_4^{2-}, F^-, and NO_3^- and results are listed in Table 14. All the water quality analysis results are compared with Bureau of Indian Standards (BIS) code IS 10500:2012 to check the water quality status.

The measured concentrations in parts per million (ppm) of heavy metals are listed in Table 13. Lithium (Li) has the mean concentration of 0.137 ppm, ranging from 0.001 to 1.100 ppm. The mean concentration of Boron (B) is 0.04 ppm, with values varying from 0.01 ppm to 0.27 ppm. Aluminum (Al) concentrations range between 0.002 ppm to 0.809 ppm with mean value of 0.092 ppm. Chromium (Cr) concentration spanning from 0.001 to 0.020 ppm with an average of 0.005 ppm.

Manganese (Mn) concentrations ranged from 0.000 ppm to 0.530 ppm with a mean value of 0.064 ppm. Iron (Fe) concentrations exhibit a mean value of 0.019 ppm, with values varying from a minimum of 0.003 ppm to a maximum of 0.100 ppm. Cobalt (Co) concentrations are relatively low, with a mean value of 0.001 ppm, ranging from a minimum of 0.000 ppm to a maximum of 0.012 ppm. Nickel (Ni) concentration spanning from 0.000 to 0.020 ppm with mean value of 0.004 ppm. Copper (Cu) concentrations range from 0.000 ppm to 0.010 ppm with an average value of 0.002 ppm. Zinc (Zn) exhibits a mean concentration of approximately 0.007 ppm, with values varying from 0.003 ppm to 0.023 ppm. Arsenic (As) concentrations range from 0.001 ppm to 0.004 ppm with mean value of 0.0004 ppm. Strontium (Sr) concentration spanning from 0.003 ppm to 0.210 ppm with an average of 0.032 ppm. Barium (Ba) concentrations have a mean of approximately 0.018 ppm, ranging from a minimum of 0.004 ppm to a maximum of 0.100 ppm. Mercury (Hg) maximum concentrations are also 0.001ppm, and lead (Pb) concentrations range from 0.000 ppm to 0.010 ppm with mean value of 0.001 ppm.

The concentration of major ions elements measured in surface water samples and their comparison with BIS limits are listed in Table 14. The Ca concentration ranged from 3.75 ppm to 36.90 ppm, with an average value of 14.06 ppm. The K concentration ranged from 2.75 ppm to 31.80 ppm, with an average value of 9.61 ppm. Likewise, the Mg concentration ranged from 5.80 ppm to 27.70 ppm, with an average value of 13.35 ppm. Further, the Na content ranged from 5.85 to 29.55 ppm, with an average of 16.97 ppm. The concentration of F ranged from 0.39 to 1.87ppm, with an average of 1.20 ppm. The chloride concentration ranged from 5.41 to 104.77 ppm, with an average of 29.70 ppm. The NO_3 content ranged from below the detection limit 0.00 to 5.19 ppm, with an average of 1.90 ppm. This indicates that the NO_3 concentration in all surface water samples is well within the BIS limit, i.e., 45 ppm. Sulphate concentration ranged from 15.68 ppm to 370.78 ppm, with an average of 127.34 ppm. The TH content in the present study area ranged from 92 ppm to 580 ppm, with an average of 374.40 ppm. The total alkalinity (TA) ranged from 46 to 136 ppm, with an average of 86.6 ppm.

Table 12 Mean values of pH, EC, TDS, DO, and temperature observed during In-situ analysis in pre-monsoon period 2024

S. No.	Code	pH	EC (mS)	TDS (ppm)	DO (mg/l)	T (°C)
1.	OS-12	7.54	0.45	220	4.44	29.80
2.	OS-14	7.72	0.32	150	6.78	32.50
3.	OS- 24	7.23	0.6	290	6.90	28.70
4.	OS-29	7.48	0.32	150	8.48	32.20
5.	OS-33	7.91	0.83	410	7.71	33.00
6.	OS-35	7.53	0.37	180	8.01	34.10
7.	OS-48	5.86	0.48	240	9.10	27.96
8.	OS-49	8.17	0.21	100	7.60	30.30
9.	OS-50	7.73	1.04	520	8.27	31.70
10.	OS-51	7.70	0.44	220	7.24	30.40
11.	OS-52	5.73	0.1	500	6.56	31.00
1. BIS Limits 2. (2012)	AL	6.5-8.5	NS	500	NS	-
	PL	NR		2000		

Table 13 Mean concentration of heavy metals observed in the surface water samples during the pre-monsoon period of 2024 and their comparison with BIS limits of IS 10500:2012

S.No.	Code	Li	B	Al	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Ag	Cd	Ba	Hg	Pb
1	OS-12	0.007	0.01	BDL	0.001	0.02	0.003	BDL	BDL	BDL	0.004	BDL	0.011	BDL	BDL	0.007	BDL	BDL
2	OS-14	0.005	0.01	BDL	0.001	BDL	0.003	BDL	BDL	BDL	0.005	BDL	0.005	BDL	BDL	0.005	BDL	BDL
3	OS- 24	0.004	0.01	BDL	0.001	BDL	0.004	BDL	BDL	BDL	0.005	BDL	0.011	BDL	BDL	0.010	BDL	BDL
4	OS-29	0.008	0.01	BDL	0.001	BDL	0.004	BDL	BDL	BDL	0.005	BDL	0.007	BDL	BDL	0.005	BDL	BDL
5	OS-33	0.001	0.01	BDL	0.001	BDL	0.004	BDL	BDL	BDL	0.004	BDL	0.020	BDL	BDL	0.030	BDL	BDL
6	OS-35	0.007	0.01	BDL	0.001	BDL	0.004	BDL	BDL	BDL	0.005	BDL	0.006	BDL	BDL	0.008	BDL	BDL
7	OS-48	0.136	0.27	0.08	0.020	**0.53**	0.100	0.012	0.020	0.01	0.010	0.004	0.210	BDL	BDL	0.100	0.001	0.010
8	OS-49	0.035	0.01	0.01	0.019	0.02	0.060	BDL	0.011	BDL	0.005	BDL	0.003	BDL	BDL	0.004	BDL	BDL
9	OS-50	0.044	0.01	BDL	0.001	BDL	0.004	BDL	BDL	BDL	0.003	BDL	0.021	BDL	BDL	0.004	BDL	BDL
10	OS-51	0.034	0.01	BDL	0.001	BDL	0.003	BDL	BDL	BDL	0.004	BDL	0.006	BDL	BDL	0.005	BDL	BDL
11	OS-52	1.100	0.04	0.81	0.001	0.08	0.004	0.002	0.009	BDL	0.023	BDL	0.035	BDL	0.001	0.008	BDL	BDL
BIS Limits	**AL**	**NS**	**0.5**	**0.03**	**0.05**	**0.1**	**0.3**	**NS**	**0.02**	**0.05**	**5**	**0.01**	**NS**	**0.1**	**0.003**	**0.7**	**0.001**	**0.01**
	PL		**1**	**0.2**	**NR**	**0.3**	**NR**		**NR**	**1.5**	**15**	**0.05**		**NR**	**NR**	**NR**	**NR**	**NR**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit

Table 14. Mean concentration of major ions in the surface water samples during pre-monsoon period of 2024and their comparison with BIS limits of IS 10500:2012

S.No.	Code	Ca	K	Mg	Na	F	Cl	Br	NO_3	PO_4	SO_4	TH	TA
1	OS-12	6.45	2.45	25.50	27.45	1.18	15.50	ND	2.50	*ND*	49.53	218	88
2	OS-14	5.55	2.75	27.70	19.50	1.05	9.42	ND	2.10	*ND*	18.76	206	96
3	OS- 24	6.15	3.70	7.65	26.65	1.12	26.40	ND	5.20	*ND*	67.51	92	90
4	OS-29	19.8	4.95	5.80	12.60	0.39	76.25	ND	3.00	*ND*	23.56	258	46
5	OS-33	18.75	31.8	17.40	8.70	1.63	104.77	ND	1.20	*ND*	33.41	580	136
6	OS-35	3.75	3.80	22.10	20.40	0.54	20.80	ND	2.10	*ND*	15.68	328	82
7	OS-48	36.9	13.90	7.40	10.70	1.40	20.10	ND	3.40	*ND*	230.20	528	86
8	OS-49	28.35	8.45	9.85	14.85	0.71	6.03	ND	0.00	*ND*	30.10	436	66
9	OS-50	6.75	10.05	17.55	5.85	1.87	7.55	ND	1.10	*ND*	307.66	362	86
10	OS-51	7.95	9.05	10.70	20.85	1.56	5.41	ND	1.00	*ND*	175.75	468	86
11	OS-52	6.60	7.65	7.35	29.55	1.74	20.24	ND	0.00	*ND*	370.78	486	92
BIS Limits	**AL**	**75**	**NS**	**30**	**NS**	**1**	**250**	**NS**	**45**	**NS**	**200**	**200**	**200**
	PL	**200**		**100**		**1.5**	**1000**		**NR**		**400**	**600**	**600**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit; all the concentration in ppm; TH: Total Hardness; TA: Total alkalinity

2.4.4 *Surface Water Quality monitoring post-monsoon 2024*

During the In-situ analysis of the samples, pH, TDS (Total dissolved solids), EC (Electrical Conductivity), DO (Dissolved Oxygen), and temperature were measured at the water collection site using the multi-meter electrode. The results of In-situ analysis for the post-monsoon period are listed in Table 8. Map depicting identified surface water sampling points during post-monsoon period is shown in Figure 15.

The pH values for the surface water samples range from 4.05 to 8.89, with an average pH value for all samples falls within the neutral to slightly alkaline range i.e. 7.54. Electrical conductivity (EC) values vary from 0.18 mS to 0.89 mS with an average value of 0.45 mS. Total dissolved solids (TDS) values ranged from 80 ppm to 440 ppm with an average value of 222.73 ppm. Dissolved oxygen (DO) levels range from 6.62 mg/l to 9.65 mg/l with an average value of 7.87 ppm. The average DO level for all samples falls within the typical range for freshwater environments. Temperature (T) measurements range from 21.40°C to 24.90°C with an average value of 22.77°C.

Table 15 . Mean values of pH, EC, TDS, DO, and temperature observed during In-situ analysis in post-monsoon period 2024

S. No.	Code	pH	EC (mS)	TDS (ppm)	DO (mg/l)	T (°C)
1	OS-12	8.20	0.39	190.00	8.01	22.80
2	OS-14	8.89	0.32	160.00	7.80	22.90
3	OS- 24	8.12	0.35	170.00	8.50	22.10
4	OS-29	8.74	0.28	140.00	9.65	22.50
5	OS-33	8.53	0.53	260.00	9.22	22.40
6	OS-35	8.10	0.20	100.00	6.62	21.40
7	OS-48	4.05	0.89	440.00	7.52	22.80
8	OS-49	8.62	0.18	80.00	7.56	23.60
9	OS-50	6.88	0.72	360.00	7.13	22.20
10	OS-51	7.70	0.39	190.00	7.11	24.90
11	OS-52	5.15	0.75	360.00	7.50	22.90
BIS Limits (2012)	AL	6.5-8.5	NS	500	NS	-
	PL	NR		2000		

Notations: E: elevation; T: temperature; AL: acceptable limit; PL: permissible limit; NR: no relaxation; NS: Not specified

Samples were also analyzed using ICP-MS for Li, Al, Cr, Cd, Mn, Fe, Co, Ni, Cu, Zn, As, Sr, Ag, Ba, Hg, and Pb, as listed in Table 5. Lithium (Li) has the mean concentration of 0.010 ppm, ranging from BDL to 0.035 ppm. Aluminum (Al)

concentrations range between BDL ppm to 0.046 ppm with mean value of 0.017 ppm. Chromium (Cr) concentration spanning from BDL to 0.008 ppm with an average of 0.006 ppm. Manganese (Mn) concentrations ranged from BDL ppm to 0.276 ppm with a mean value of 0.059 ppm. Iron (Fe) concentrations exhibit a mean value of 0.024 ppm, with values varying from a minimum of BDL ppm to a maximum of 0.276 ppm. Cobalt (Co) concentrations are relatively low, with a mean value of 0.011 ppm, ranging from a minimum of BDL ppm to a maximum of 0.064 ppm. Nickel (Ni) concentration spanning from BDL to 0.014 ppm with mean value of 0.002 ppm. Copper (Cu) concentrations range from BDL ppm to 0.078 ppm with an average value of 0.007 ppm. Zinc (Zn) exhibits a mean concentration of approximately 0.129 ppm, with values varying from BDL ppm to 0.945 ppm. Arsenic (As) concentrations range from BDL ppm to 0.001 ppm. Strontium (Sr) concentration spanning from 0.030 ppm to 0.878 ppm with an average of 0.246 ppm. Barium (Ba) concentrations have a mean of approximately 0.095 ppm, ranging from a minimum of 0.022 ppm to a maximum of 0.427 ppm. The average mercury (Hg) concentrations are found 0.003 with values ranged from 0.002 to 0.004 ppm. Lead (Pb) is found in negligible concentration level at the sampling points.

Apart from heavy metal analysis, samples were analysed for Ca, K, Mg, Na, NH_4, Li, F, Cl, Br, NO_3, PO_4, SO_4, TH and TA during the post monsoon period 2024. The measured observations were compared with Bureau of Indian Standards (BIS-code IS 10500:2012) to check the compliance status of surface water quality, listed in Table 6. The Ca concentration ranged from 16.55 ppm to 100.03 ppm, with an average value of 44.73 ppm. The K concentration ranged from 4.74 ppm to 28.03 ppm, with an average value of 14.32 ppm. Likewise, the Mg concentration ranged from 0.12 ppm to 27.71 ppm, with an average value of 6.93 ppm. Further, the Na content ranged from 4.74 to 28.03 ppm, with an average of 14.32 ppm. The concentration of F ranged from 0.04 to 1.60 ppm, with an average of 0.73 ppm. The chloride concentration ranged from 4.30 to 122 ppm, with an average of 20.16 ppm. The NO_3 content ranged from 0.94 ppm to 4.30 ppm, with an average of 2.13 ppm. This indicates that the NO_3 concentration in all surface water samples is well within

the BIS limit, i.e., 45 ppm. Sulphate concentration ranged from 14.30 ppm to 168.00 ppm, with an average of 59.55 ppm. The TH content in the present study area ranged from 61.10 ppm to 178 ppm, with an average of 117.48 ppm. The total alkalinity (TA) ranged from 53 to 128 ppm, with an average of 90.64 ppm.

TSS, Silica, oil & grease, phenolic compounds (PC), COD, BOD, and MPN were determined in specific samples during the post-monsoon season 2024. For TSS measurement, samples were filtered, dried, and weighed. Silica, oil & grease, phenolic compounds are measured using the gravimetric method. COD and BOD are measured through the oxidation-titration method. The concentration of BOD, COD, Oil & Grease, silica, MPN, total suspended solids (TSS) obtained in the surface water samples, and comparison with BIS limits of IS 10500:2012 during post monsoon are listed in Table 11.

Table 16 Concentration of specific elements obtained in the surface water samples in post monsoon 2024 and comparison with BIS limits of IS 10500:2012

S. No.	Code	BOD	MPN	O&G	Silica	COD	TSS	PC
1	OS-24	2.8	<100	ND	1.9	102	4.1	ND
2	OS-29	2.4	<125	ND	16.4	102	3.1	ND
3	OS-33	8.2	NIL	ND	2.8	160	1.4	ND
4	OS-35	2.4	NIL	ND	2.6	108	2.2	ND
5	OS-48	4.4	NIL	ND	1.8	120	1.8	ND
BIS Limits	AL	NS	0	NS	NS	NS	NS	0.001
	PL							0.002

Table 17 Mean concentration of heavy metals observed in the surface water samples during the post-monsoon period of 2024 and their comparison with BIS limits of IS 10500:2012

S. No.	Code	Li	Al	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Ag	Cd	Ba	Hg	Pb
1	OS-12	0.005	0.027	0.007	0.032	BDL	BDL	BDL	BDL	BDL	BDL	0.191	BDL	BDL	0.069	0.004	BDL
2	OS-14	BDL	0.028	0.006	0.013	BDL	BDL	BDL	BDL	0.001	BDL	0.124	BDL	BDL	0.022	0.004	BDL
3	OS-24	0.010	0.046	0.007	0.002	BDL	BDL	BDL	BDL	BDL	BDL	0.161	BDL	BDL	0.064	0.003	BDL
4	OS-29	BDL	BDL	0.007	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.126	BDL	BDL	0.024	0.003	BDL
5	OS-33	0.015	BDL	0.006	0.015	BDL	BDL	BDL	BDL	0.034	BDL	0.400	BDL	BDL	0.427	0.003	BDL
6	OS-35	0.015	BDL	0.004	0.036	BDL	BDL	BDL	BDL	0.038	BDL	0.122	BDL	BDL	0.059	0.003	BDL
7	OS-48	0.032	0.011	0.008	0.255	0.261	0.064	0.014	0.078	0.945	0.001	0.878	BDL	0.016	0.245	0.003	BDL
8	OS-49	BDL	0.029	BDL	0.006	BDL	BDL	BDL	BDL	BDL	BDL	0.075	BDL	BDL	0.024	0.002	BDL
9	OS-50	0.035	0.022	0.005	0.276	BDL	0.060	0.014	BDL	0.404	BDL	0.466	BDL	BDL	0.046	0.002	BDL
10	OS-51	BDL	0.013	0.008	0.006	BDL	BDL	BDL	BDL	BDL	BDL	0.135	BDL	BDL	0.039	0.002	BDL
11	OS-52	BDL	0.011	0.007	0.005	BDL	BDL	BDL	BDL	BDL	BDL	0.030	BDL	BDL	0.024	0.004	BDL
BIS Limits	AL	NS	0.03	0.05	0.1	0.3	NS	0.02	0.05	5	0.01	NS	0.1	0.003	0.7	0.001	0.01
	PL		0.2	NR	0.3	NR		NR	1.5	15	0.05		NR	NR	NR	NR	NR

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit

Table 18 Mean concentration of major ions in the surface water samples during post-monsoon period of 2024 and their comparison with BIS limits of IS 10500:2012

S. No.	Code	Ca	K	Mg	Na	NH_4	Li	F	Cl	Br	NO_3	PO_4	SO_4	TH	TA
1	OS-12	27.49	20.14	5.84	20.14	0.35	0.05	1.40	5.8	BDL	4.3	ND	65.2	142	86
2	OS-14	30.41	20.86	0.12	20.86	0.28	BDL	0.88	7.2	BDL	0.94	ND	16.6	103	75
3	OS-24	29.03	18.63	6.27	18.63	0.72	0.12	0.72	21.2	BDL	2.62	ND	24.4	102	102
4	OS-29	29.31	19.13	5.99	19.13	0.40	BDL	0.58	8.3	BDL	1.72	ND	14.3	78	53
5	OS-33	38.31	28.03	10.77	28.03	BDL	BDL	0.71	17.8	BDL	1.98	ND	26.6	102	95
6	OS-35	23.29	8.14	0.16	8.14	BDL	BDL	0.48	122	BDL	1.22	ND	18.9	66.2	80
7	OS-48	91.19	11.49	0.19	11.49	BDL	2.75	1.40	8.23	BDL	4.16	ND	168.0	178	76
8	OS-49	16.55	5.40	1.92	5.40	0.43	BDL	0.04	11.9	BDL	2.28	ND	42.2	61.1	72
9	OS-50	100.58	7.96	27.71	7.96	0.29	0.21	0.08	4.3	BDL	1.23	ND	56.6	142	112
10	OS-51	30.00	4.74	17.13	4.74	0.68	BDL	0.13	6.8	BDL	1.45	ND	98.1	156	118
11	OS-52	75.92	12.98	0.17	12.98	0.18	2.33	**1.60**	8.2	BDL	1.54	ND	124.1	162	128
BIS Limits	**AL**	**75**	**NS**	**30**	**NS**			**1**	**250**	**NS**	**45**	**NS**	**200**	**200**	**200**
	PL	**200**		**100**				**1.5**	**1000**		**NR**		**400**	**600**	**600**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit; all the concentration in ppm; TH: Total Hardness; TA: Total alkalinity

2.5 *Impact of Post-Construction Activity and Operation of Thermal Power Plant on Surface Water Reference to Previous Year*

Available surface water information for the pre-construction period/previous years and current observations are analyzed to assess the impact of post-construction and operation of the thermal power plant on surface water resources of the study area. The impact of post-construction activity and operation of the thermal power plant on surface water was reviewed on the basis of past studies (HYD, IIT Roorkee 2021-2022). The pH ranged from 6.40 to 7.57 in pre-monsoon while in post-monsoon it varied from 5.81 to 7.98 in the year 2021. However, in the year 2022 pH concentration ranged from 6.22 to 7.96 in pre-monsoon while in the post monsoon period ranged from 6.11 to 7.96. The concentration of heavy metals in the pre and post monsoon period in the years 2021 and 2022 was analyzed. The pH values for the water samples range from 5.82 to 7.98 for the pre-monsoon period of year 2023. This shows there is no significant variation in pH level of surface water. The average pH value for all samples falls within the neutral to slightly alkaline range in the year 2023.

Aluminium (Al) and Iron (Fe) had slightly higher concentrations in both the years (2021 and 2022) when compared to BIS (2012) limits for drinking water. Some of the trace metals shows variations while comparing the yearly and seasonal data such as arsenic (As) and Manganese (Mn). In comparison to the BIS (2012) limit, some traces of Arsenic (As) were reported in the post-monsoon period of 2021; however, in the other periods (pre-monsoon 2021, pre- and post-monsoon 2022), Arsenic was well below the prescribed BIS (2012) limits for drinking water. The concentration of Mn, Cd, and Pb reduced significantly in post monsoon period sampling during both the years, which shows the dilution impact. Major cations and anions, on the other hand, were studied before and after the monsoon season, and it was noticed that the majority of the ions were within the BIS permissible limit (2012). Although sulfate, fluoride, and nitrate

concentrations were marginally higher in a few samples of the pre-monsoon period of 2021, they appear to be diluted in the post-monsoon period of 2021. A similar pattern was also observed for the year 2022. Likewise, in year 2023, some of the trace metal like Al, Fe, Cr, and Cd are relatively elevated in comparison to BIS standards due to geology of the area. These pollutants in the surface water may reach to the groundwater. Therefore, regular monitoring of the surface water resources is recommended in the near future.

2.6 *Status of Rainwater Harvesting at NTPC Premises with Quantity of Accumulated Rainwater Due to Rainwater Harvesting and Status of Watershed Management at Study Area*

2.6.1 *Status of rainwater harvesting at NTPC premises*

Due to the built-up area and the other impervious zones inside the pant premise and township area, natural infiltrating water to the underlying groundwater has been changed. However, a substantial open area still exists both within the plant and residential colony in the form of open areas and lawns. This open area also contributes to groundwater recharge. Within plant, there will be a separate isolated effluent drainage and treatment facility and so storm water drainage will be dedicated drainage works for rainwater. The area occupied by plant facilities is within inner boundary of plant is 14,17,880 m^2 which is about 15% of total area within NKSTPP property line under external boundary. Ash pond will occupy about 23.93 lakhs Sqm which is about 25% of total land. Balance about 50% of land will remain vacant in natural state. Also, most of the land surrounding the plant site is covered by intense agricultural activities with fairly good infiltration capacity. Therefore, as of now, there is no clear trend of groundwater table decline in the study area.

The storm runoff from the township and plant areas such as paved areas, rooftops, lawns, and the plant area is at present drained through a well-

designed storm drainage network consisting of catch drains, and trunk drains. During the site visit, the team could locate only one rainwater harvesting structure near STP inside township with 3 recharging pits side by side. pit. A photograph of the rainwater harvesting structure is shown in Appendix-C. So, the present rainwater harvesting facilities at the NTPC premises need to be augmented with suitable recharge structures, recharge ponds etc.

2.6.2 *Status of watershed management at the study area*

The land use of area within a 12 km radius of the NTPC North Karanpura Station consists of forest area (37.4%), agriculture area (43.7%), mine area (6.8%) and other land use as shown in Figure 9 and land use statistics shown in Table 1. The forest areas act as source of recharge. Two large waterbodies could be seen in the eastern side of the North Karanpura Station, which could be regarded as watershed management work undertaken in the area. Besides these large ponds, farmers have also constructed small ponds at their farm level to store rainwater for irrigation from which recharge is also taking place.

2.7 *Recommendation/suggestions to NTPC for taking site specific mitigation measures.*

As pollutant in the surface water can reach the groundwater table, regular monitoring of the surface water resources is recommended in the near future. Also, for mitigating and controlling surface water pollution requires upgrading of water treatment plants and implementing stormwater management practices to reduce runoff. Further, encouraging sustainable agricultural practices, erosion control measures, and public education on responsible waste disposal are essential. Regular monitoring programs are crucial for tracking changes in surface water quality and identifying pollution sources are necessary.

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3 GROUND WATER HYDROLOGY

3.1 Define the present hydro-geological scenario of the study area through water table contour map & ground water flow direction map

The present hydrogeological scenario of the study area has been studied through observing water table in the identified open wells within 12 km radius from the power station. The location of identified monitoring stations is shown in Figure 16.

3.2 Groundwater table monitoring during pre-monsoon 2023

During the pre-and post-monsoon site visits, groundwater table from various identified locations was observed using a dip meter. The observed groundwater level during the pre-monsoon 2023 period is listed in Table 19. The observed groundwater levels were plotted, and the groundwater flow direction was computed. The observed groundwater table and flow direction for the pre-monsoon 2023 season is depicted in Figure 17. As can be seen from Figure 17, the groundwater flows mainly in the south and south-east direction to the plant.

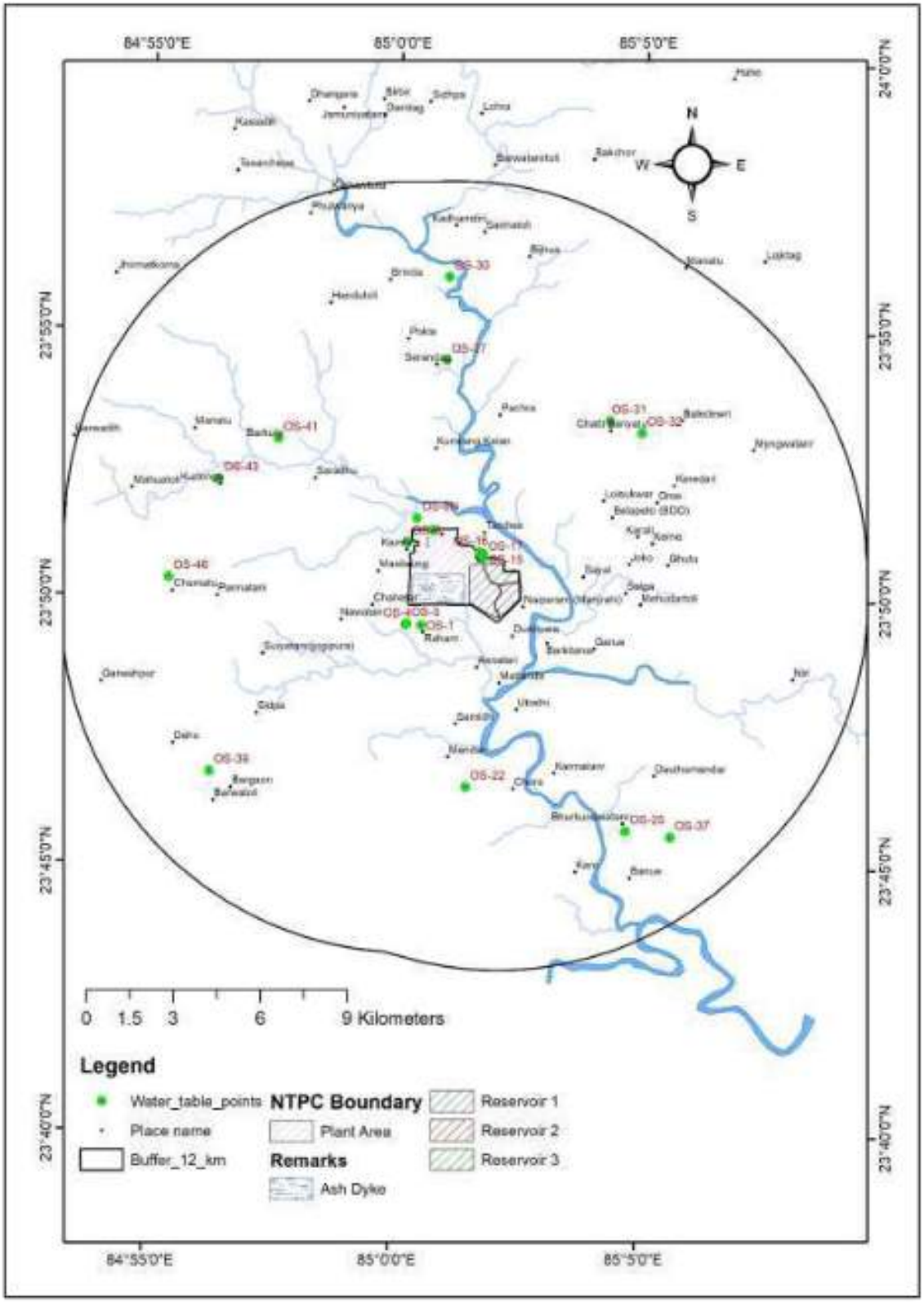


Figure 16. Groundwater level monitoring stations present in and around the plant site.

Table 19. Groundwater level measured below ground level (BGL) in meters during the pre-monsoon period (June 2023).

S.no	New code	Type of site/location	Latitude	Longitude	Depth(m)	Elevation(m)	Water table elevation (m)
1	OS-1	Open Well/Raham	23.82485	85.00885	6.3	453	446.7
2	OS-4	Open well/Raham	23.825	85.0036	5.34	451	445.66
3	OS-5	Open well/Raham	23.82525	85.00403	6.86	468	461.14
4	OS-6	Open Well/Kamta	23.85062	85.00388	12.28	473	460.72
5	OS-9N	Open Well/Garilaung	23.85812	85.00701	7.65	465	457.35
6	OS-15	Open Well/Tandwa	23.8472	85.02965	1.67	456	454.33
7	OS-16	Open Well/Tandwa	23.84765	85.02828	5.9	457	451.1
8	OS-17	Open Well/Tandwa	23.84605	85.02968	5.4	456	450.6
9	OS-22	Handpump	23.77459	85.02452	7.24	449	441.76
10	OS-25	Open well	23.76132	85.07883	7.4	434	426.6
11	OS-27	Open well	23.90753	85.01626	5.3	479	473.7
12	OS-30	Open well	23.93338	85.0169	7.94	486	478.06
13	OS-31	Open well	23.88916	85.07196	6.04	484	477.96
14	OS-32	Open well	23.88548	85.08292	4.02	468	463.98
15	OS-37	Open Well	23.7596	85.09406	4.2	423	418.8
16	OS-39	Open well	23.7786	84.93775	7.8	472	464.2
17	OS-41	Open well	23.88246	84.95973	10.08	492	481.92
18	OS-43	Open well	23.86965	84.93961	7.73	504	496.27
19	OS-46	Open well	23.83891	84.92311	6.91	525	518.09
20	OS-47	Open well	23.85439	85.01236	2.6	460	457.4

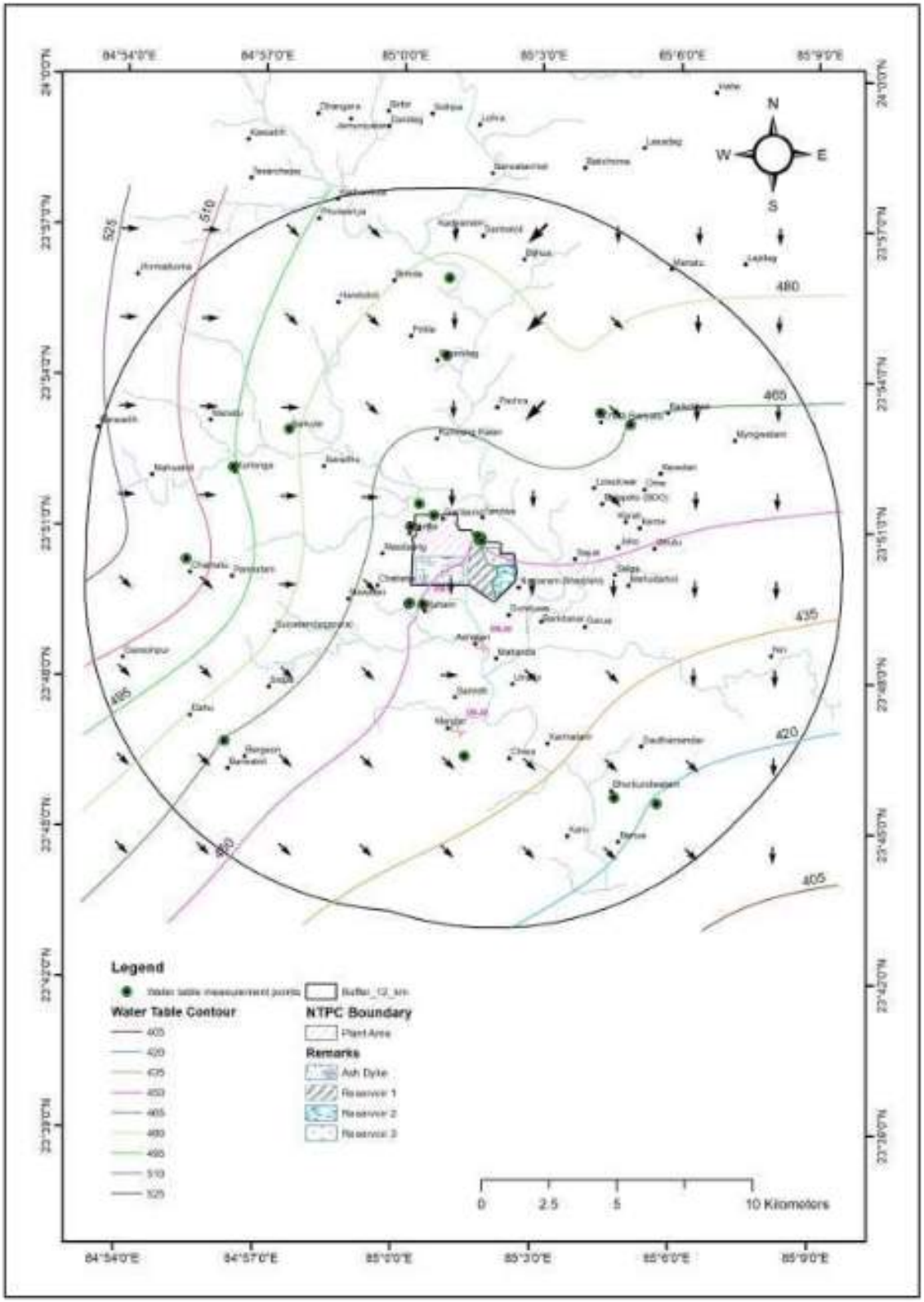


Figure 17. Groundwater level and flow direction in and around the plant area during pre-monsoon 2023.

3.3 *Groundwater table monitoring during post-monsoon 2023*

During the post-monsoon site visit, an advanced dip meter was used to measure and record groundwater levels at various identified locations. The collected data is presented in *Table 20* during the post-monsoon period (November 2023). The observed groundwater level data were graphically represented in ArcGIS to discern the groundwater flow direction during the post-monsoon period. Upon analysis of *Figure 18*, it is evident that the predominant direction of groundwater flow remains consistent with the previous season, primarily trending towards the south and southeast. This observation indicates a stability in the groundwater dynamics, with no substantial deviations from the established flow directions.

Table 20. Groundwater level measured below ground level (BGL) in meters during the post-monsoon period (November 2023).

S.no	New code	Type of site/location	Latitude	Longitude	Depth(m)	Elevation(m)	Water table elevation (m)
1	OS-1	Open Well/Raham	23.82485	85.00885	4.7	453	448.3
2	OS-4	Open well/Raham	23.825	85.0036	4.4	451	446.6
3	OS-5	Open well/Raham	23.82525	85.00403	4.5	468	463.5
4	OS-6	Open Well/Kamta	23.85062	85.00388	7.65	473	465.35
5	OS-9	Open Well/Garilaung	23.85812	85.00701	3.5	465	461.5
6	OS-15	Open Well/Tandwa	23.8472	85.02965	2.3	456	453.7
7	OS-16	Open Well/Tandwa	23.84765	85.02828	0.85	457	456.15
8	OS-17	Open Well/Tandwa	23.84605	85.02968	2.35	456	453.65
9	OS-22	Handpump	23.77459	85.02452	5.4	432	426.6
10	OS-25	Open well	23.76132	85.07883	5.39	434	428.61
11	OS-27	Open well	23.90753	85.01626	3.1	479	475.9
12	OS-30	Open well	23.93338	85.0169	5.64	486	480.36
13	OS-31	Open well	23.88916	85.07196	4.85	484	479.15
14	OS-32	Open well	23.88548	85.08292	2.92	468	465.08
15	OS-37	Open Well	23.7596	85.09406	2.5	423	420.5
16	OS-39	Open well	23.7786	84.93775	4.25	472	467.75
17	OS-41	Open well	23.88246	84.95973	6.8	492	485.2
18	OS-43	Open well	23.86965	84.93961	6.1	504	497.9
19	OS-46	Open well	23.83891	84.92311	4.01	525	520.99
20	OS-47	Open well	23.85439	85.01236	1.25	460	458.75

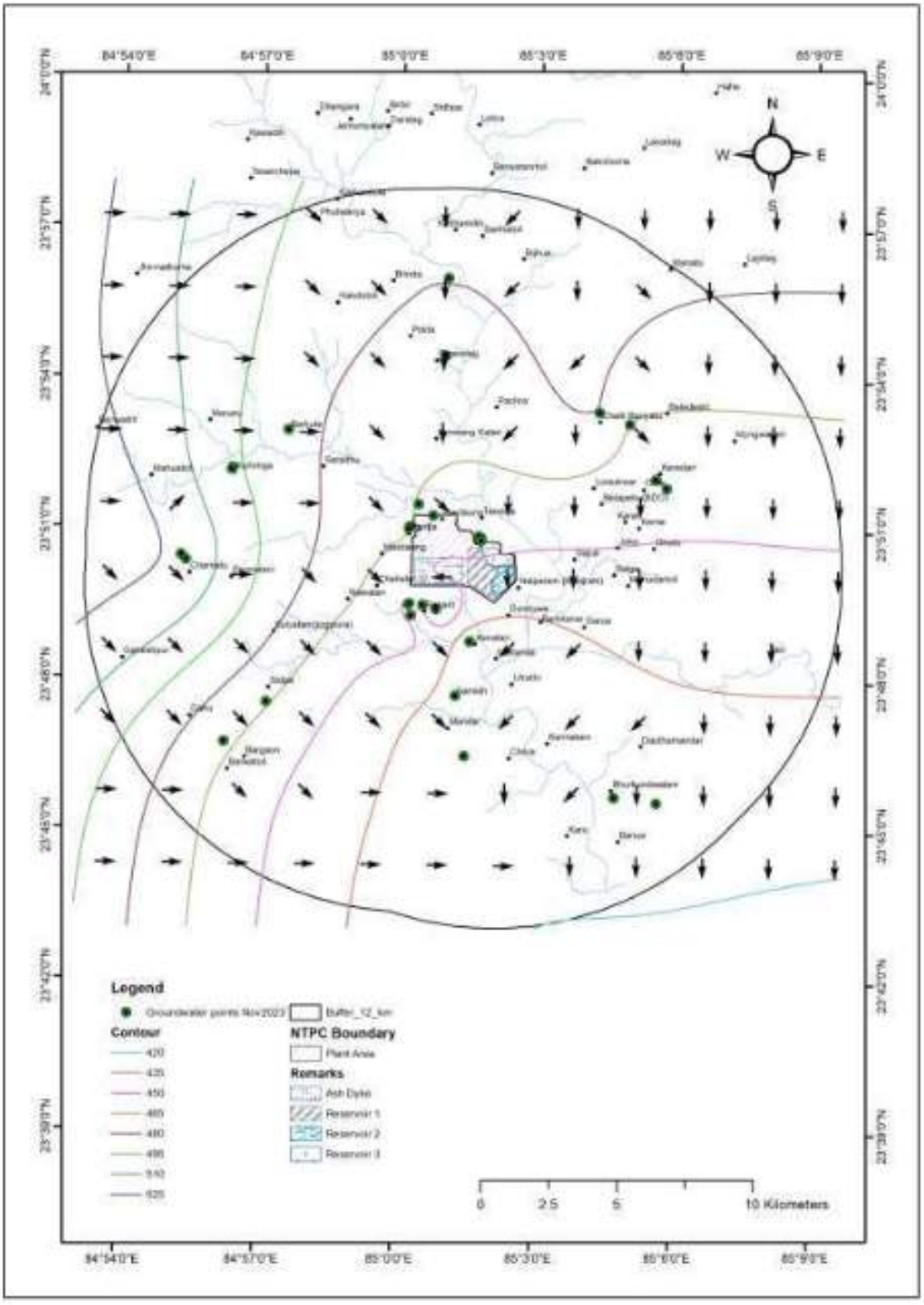


Figure 18. Groundwater level and flow direction in and around the plant area during post-monsoon season of 2023.

3.4 *Groundwater table monitoring during pre-monsoon 2024*

During the pre-monsoon 2024 site visits, groundwater table from various identified locations was observed using a dip meter. The observed groundwater level during the pre-monsoon 2024 period is listed in Table 21. The observed groundwater levels were plotted, and the groundwater flow direction was computed. The observed groundwater table and flow direction for the pre-monsoon 2024 season is depicted in Figure 19. As can be seen from Figure 19, the groundwater flows mainly in the south and south-east direction to the plant.

Table 21. Groundwater level measured below ground level in meters during the pre-monsoon period (2024).

S.no	New code	Type of site/location	Latitude	Longitude	Depth(m)	Elevation(m)	Water table elevation (m)
1.	OS-1	Open Well/Raham	23.82485	85.00885	6.20	453	446.8
2.	OS-4	Open well/Raham	23.825	85.0036	6.23	451	444.77
3.	OS-5	Open well/Raham	23.82525	85.00403	7.75	468	460.25
4.	OS-6	Open Well/Kamta	23.85062	85.00388	11.56	473	461.44
5.	OS-9	Open Well/Garilaung	23.85812	85.00701	7.10	465	457.9
6.	OS-15	Open Well/Tandwa	23.8472	85.02965	1.65	456	454.35
7.	OS-16	Open Well/Tandwa	23.84765	85.02828	6	457	451
8.	OS-17	Open Well/Tandwa	23.84605	85.02968	4.3	456	451.7
9.	OS-20	Open well	23.8127	85.02598	7.10	432	424.9
10.	OS-22	Handpump	23.77459	85.02452	6.18	449	442.82
11.	OS-25	Open well	23.76132	85.07883	7.46	434	426.54
12.	OS-27	Open well	23.90753	85.01626	6.5	479	472.5
13.	OS-30	Open well	23.93338	85.0169	11.6	486	474.4
14.	OS-31	Open well	23.88916	85.07196	7.80	484	476.2
15.	OS-32	Open well	23.88548	85.08292	5.3	468	462.7
16.	OS-37	Open Well	23.7596	85.09406	4.44	423	418.56
17.	OS-39	Open well	23.7786	84.93775	6.35	472	465.65
18.	OS-41	Open well	23.88246	84.95973	10.10	492	481.9
19.	OS-43	Open well	23.86965	84.93961	8.50	504	495.5
20.	OS-46	Open well	23.83891	84.92311	7.23	525	517.77
21.	OS-47	Open well	23.85439	85.01236	2.88	460	457.12

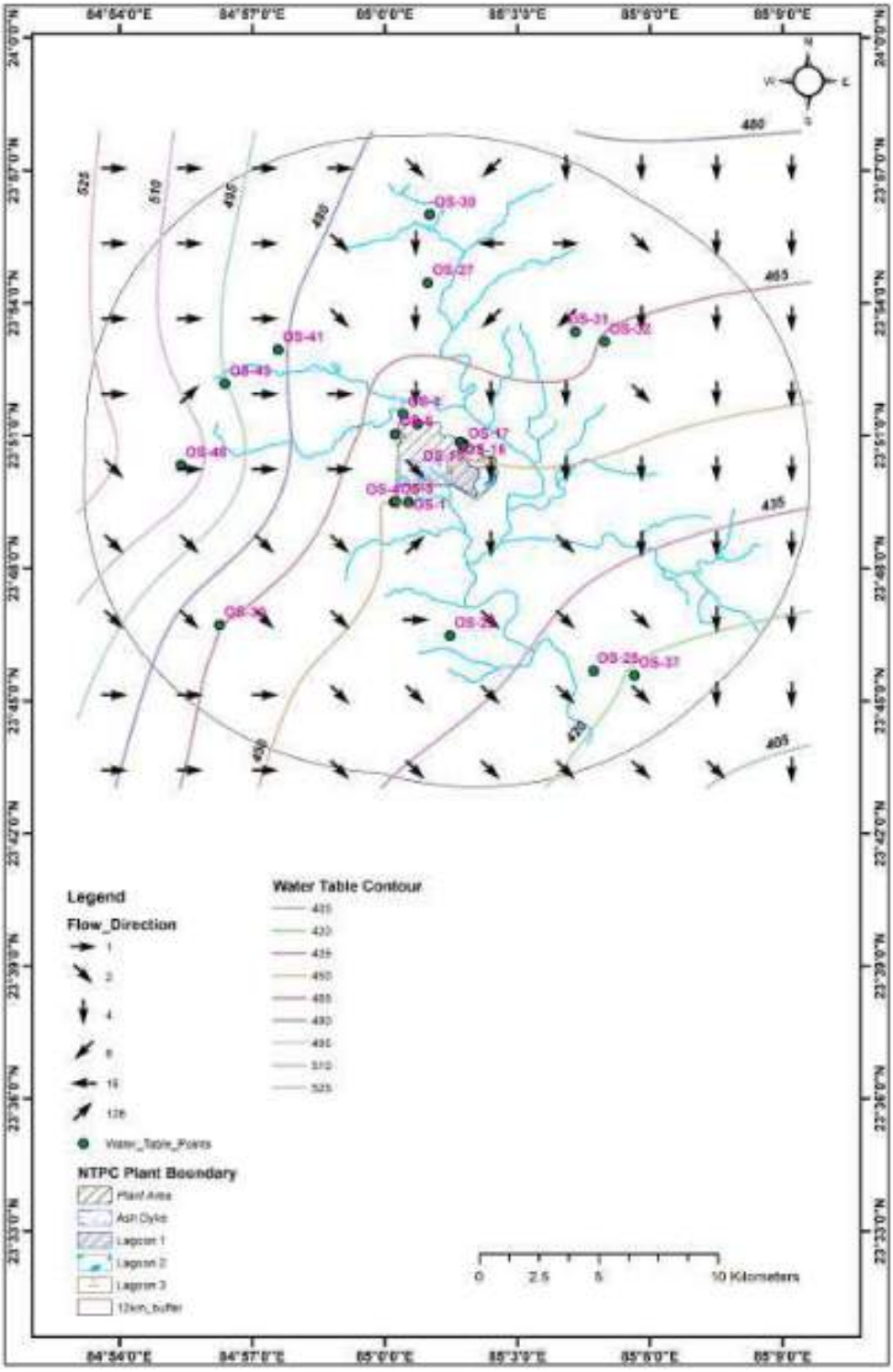


Figure 19. Groundwater level and flow direction in and around the plant area during the pre-monsoon season of 2024.

3.5 *Groundwater table monitoring during post-monsoon 2024*

During the post-monsoon site visit, a dip meter was used to measure and record groundwater levels at various identified locations. The collected data is presented in Table 20 during the post-monsoon period of year 2024. The observed groundwater level data were graphically represented in ArcGIS to discern the direction of the groundwater flow during this season. Upon analysis of Figure 18, it is evident that the predominant direction of groundwater flow remains consistent with the previous season, primarily trending towards the south and southeast. This observation indicates stability in the groundwater dynamics, with no substantial deviations from the established flow directions during the study period.

Table 22 Groundwater level measured below ground level (BGL) in meters during the post-monsoon period 2024.

S.no	New code	Type of site/location	Latitude	Longitude	Depth(m)	Elevation(m)	Water table elevation (m)
1.	OS-1	Open Well/Raham	23.82485	85.00885	4.63	453.00	448.37
2.	OS-4	Open well/Raham	23.82500	85.00360	3.67	451.00	447.33
3.	OS-5	Open well/Raham	23.82525	85.00403	4.84	468.00	463.16
4.	OS-6	Open Well/Kamta	23.85062	85.00388	5.45	473.00	467.55
5.	OS-9N	Open Well/Garilaung	23.82344	85.01366	4.65	465.00	460.35
6.	OS-16	Open Well/Tandwa	23.84765	85.02828	0.60	457.00	456.40
7.	OS-17	Open Well/Tandwa	23.84605	85.02968	2.42	456.00	453.58
8.	OS-20	Handpump/Asnatari	23.81270	85.02598	5.94	432.00	426.06
9.	OS-25	Open well	23.76132	85.07883	5.20	434.00	428.80
10.	OS-27	Open well	23.90753	85.01626	4.44	479.00	474.56
11.	OS-30	Open well	23.93338	85.01690	6.30	486.00	479.70
12.	OS-31	Open well	23.88916	85.07196	5.09	484.00	478.91
13.	OS-32	Open well	23.88548	85.08292	3.93	468.00	464.07
14.	OS-39	Open well	23.77876	84.93758	4.35	472.00	467.65
15.	OS-41	Open well	23.88246	84.95973	7.32	492.00	484.68
16.	OS-43	Open well	23.86965	84.93961	6.53	504.00	497.47
17.	OS-46	Open well	23.83891	84.92311	5.57	525.00	519.43
18.	OS-47	Open well	23.85439	85.01236	1.67	460.00	458.33

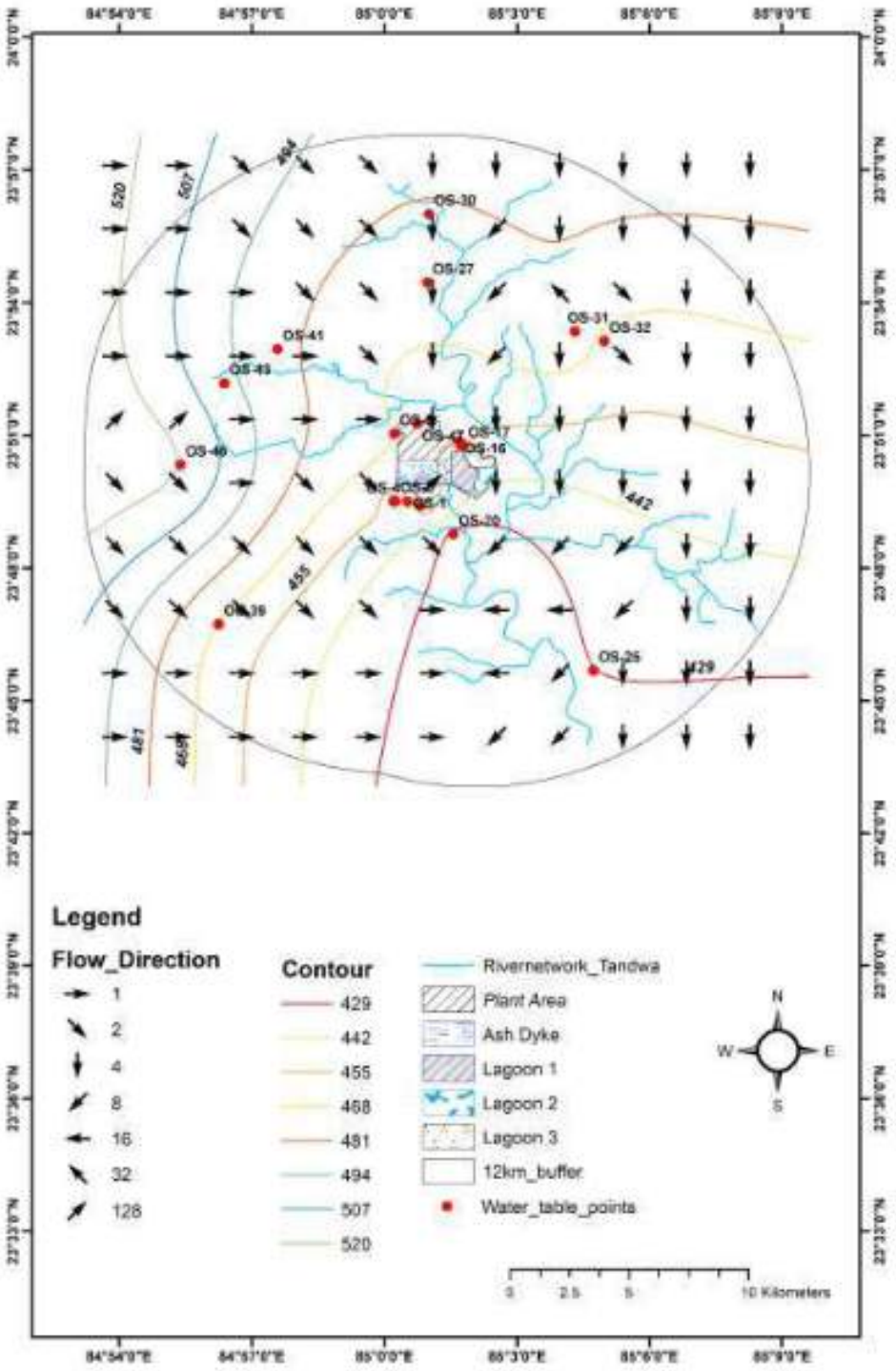


Figure 20 Groundwater level and flow direction in and around the plant area during post-monsoon season of 2024.

3.6 *Assessment of groundwater depletion*

The comparison of water table levels between Pre-Monsoon 2023 (PreM 2023) and Post-Monsoon 2023 (PostM 2023) reveals important insights into the impact of monsoon rains on groundwater levels across various sites. Positive F values, indicating a rise in the water table, were observed at several locations. For instance, the site OS-6 showed the most significant rise with an increase of 4.63 meters, followed by OS-9 and OS-39, with rises of 4.15 meters and 3.55 meters, respectively. Conversely, negative F values, indicating a fall in the water table, were more prevalent. Only OS-15 experienced a slight drop with a decrease of 0.63 meters. When comparing the water levels between PreM 2023 and PreM 2024, the trend shows overall groundwater depletion, with many sites showing negative F values, signifying a long-term decline in groundwater levels. The site OS-30 recorded the most significant fall with a decrease of 3.66 meters, followed by OS-31, OS-32, and OS-27, all of which experienced substantial drops. However, some sites displayed positive F values, indicating a rise in water levels, such as OS-39, which saw the most considerable increase of 1.45 meters, followed by OS-41 and OS-22. The recorded water levels for the Pre-monsoon of 2024 and Post monsoon of 2024 periods (denoted as "F in m") are listed in Table 23. The recorded water levels vary significantly across the sites, with the highest fluctuation observed at site OS-6, where the difference was 6.91 meters. Conversely, smaller fluctuations are noted at several other locations, such as OS-47, with a difference of just 1.21 meters. Some sites, such as OS-15, OS-22, and OS-37, have missing data for the Post monsoon 2024 period, indicated as "NA." These fluctuations provide valuable insights into groundwater recharge and depletion dynamics over the monitoring period. The pre-and post-monsoon depth to the water level of previous years (2023 and 2024) shows the rising trend in water level after pre-monsoon period in both seasons presented in Table 23.

Table 23 Water level fluctuations before and after Pre and post monsoon periods of year 2023 and 2024 in meters.

Sr. No	Name of Site	Latitude	Longitude	PreM 2023	PostM 2023	F in m (PreM 23- PostM 23)	PreM 2024	PostM 2024	F in m (PreM 23- PostM24)
1	OS-1	23.82485	85.00885	6.3	4.7	1.6	6.2	3.67	2.53
2	OS-4	23.825	85.0036	5.34	4.4	0.94	6.23	4.84	1.39
3	OS-5	23.82525	85.00403	6.86	4.5	2.36	7.75	5.45	2.30
4	OS-6	23.85062	85.00388	12.28	7.65	4.63	11.56	4.65	6.91
5	OS-9	23.85812	85.00701	7.65	3.5	4.15	7.1	3.67	3.43
6	OS-15	23.8472	85.02965	1.67	2.3	-0.63	1.65	NDA	NDA
7	OS-16	23.84765	85.02828	5.9	0.85	5.05	6	0.6	5.40
8	OS-17	23.84605	85.02968	5.4	2.35	3.05	4.3	2.42	1.88
9	OS-22	23.77459	85.02452	7.24	5.4	1.84	6.18	NDA	NDA
10	OS-25	23.76132	85.07883	7.4	5.39	2.01	7.46	5.2	2.26
11	OS-27	23.90753	85.01626	5.3	3.1	2.2	6.5	4.44	2.06
12	OS-30	23.93338	85.0169	7.94	5.64	2.3	11.6	6.3	5.30
13	OS-31	23.88916	85.07196	6.04	4.85	1.19	7.8	5.09	2.71
14	OS-32	23.88548	85.08292	4.02	2.92	1.1	5.3	3.93	1.37
15	OS-37	23.7596	85.09406	4.2	2.5	1.7	4.44	NDA	NDA
16	OS-39	23.7786	84.93775	7.8	4.25	3.55	6.35	4.35	2.00
17	OS-41	23.88246	84.95973	10.08	6.8	3.28	10.1	7.32	2.78
18	OS-43	23.86965	84.93961	7.73	6.1	1.63	8.5	6.53	1.97
19	OS-46	23.83891	84.92311	6.91	4.01	2.9	7.23	5.57	1.66
20	OS-47	23.85439	85.01236	2.6	1.25	1.35	2.88	1.67	1.21

Notations: F- fluctuations in meter (Positive F value shows rise in water table w.r.t previous year whereas negative F values shows rise in water table w.r.t previous year), PreM-Pre-monsoon, PosM-Post monsoon. NDA-no data available

Available groundwater information for the pre-monsoon period/previous year is analysed to assess the groundwater depletion of the study area. The pre-and post-

monsoon depth to the water level of previous years (2021 and 2022) shows the rising trend in water level after pre-monsoon period in both seasons presented in Table 24. The groundwater fluctuation data for the year 2021 and 2022, suggest varying trends in groundwater status at different monitoring sites. For instance, at OS-1 (Raham) and OS-4 (Raham), there was a substantial increase in water levels from 2021 to 2022, with fluctuations of 1.14 meters to 5.55 meters and 2.22 meters to 5.53 meters, respectively. These significant positive fluctuations suggest groundwater recharge and improved groundwater status. Conversely, at OS-5 (Raham), there was a noticeable decrease in water level from 2.12 meters in 2021 to 0.18 meters in 2022, indicating groundwater depletion and declining groundwater status. In contrast, sites like OS-6 (Kamta) showed a substantial increase in water levels from 4.08 meters to 10.85 meters, signifying increased groundwater recharge as compared to its extraction.

Table 24. Water level fluctuations before and after monsoon period in year 2021 and 2022 (in meters).

Sr. No	Name of Site	Latitude	Longitude	PreM (2021)	PosM (2021)	F in m (2021)	PreM (2022)	PosM (2022)	F in m (2022)
1	OS-1(Raham)	23°49'29.46"	85°0'31.86"	4.6	3.46	1.14	6.4	0.85	5.55
2	OS-4 (Raham)	23°49'30"	85°0'12.96"	5.12	2.9	2.22	6.11	0.58	5.53
3	OS-5 (Raham)	23°49'30.9"	85°0'14.52"	5.52	3.4	2.12	1.19	1.01	0.18
4	OS-6 (Kamta)	23°51'2.22"	85°0'13.98"	9.52	5.44	4.08	11.55	0.7	10.85
5	OS-9 (Garilaung)	23°51'29.7"	85°0'40.98"	5.61	3.08	2.53	5.67	1.67	4
6	OS-13 (Tandwa)	23°51'10.08"	85°1'56.52"	0.64	NDA	0.64	2.4	0.5	1.9
7	OS-15 (Tandwa)	23°50'49.92"	85°1'46.74"	0.87	0.76	0.11	2.05	0.65	1.4
8	OS-16 (Tandwa)	23°50'51.54"	85°1'41.82"	3.05	1.75	1.3	1.83	0.3	1.53
9	OS-17 (Tandwa)	23°50'45.78"	85°1'46.86"	4.53	3.62	0.91	4.17	2.27	1.9

Notations: F- fluctuations in meter, NDA-no data available, PreM-Pre monsoon, PosM-Post monsoon

3.7 *Estimation of annual recharge and utilisation of ground water during operation of NKSTPP*

The Groundwater Estimation Committee (GEC-1997) has been the foundation for assessing groundwater in India for nearly two decades. In response to changing circumstances, the Ministry of Water Resources, Government of India, established the GEC 2015 committee to propose a revised methodology incorporating several modifications compared to the GEC-1997 recommendations. This new committee recommended comprehensively evaluating replenishable (dynamic) and static groundwater resources. Given the rapid rate of groundwater extraction, GEC-2015 recommended updating resource estimates once every three years. The primary categorization of groundwater assessment units, such as blocks, talukas, and watersheds, into safe, semi-critical, critical, and overexploited categories is based on the relationship between pumping and annual replenishment.

Groundwater recharge was estimated for the entire study area, excluding area having slope >20%. The GEC-97/15 guidelines advised identifying and subtracting such high-slope areas from the total geographical area of the target site, as these areas experience more runoff than infiltration. The delineation of regions with a slope exceeding 20% in the study area is accomplished using Digital Elevation Models (DEMs), as illustrated in Figure 21. Typically, project activities in an area primarily rely on dynamic groundwater resources, as this component is replenished annually through surface recharge. In contrast, static groundwater resources are not replenished annually and may only be tapped during emergencies, with careful recharge planning in subsequent years when excess rainfall occurs. This study employs the water budget equation to quantify groundwater, considering reasonable assumptions recommended by GEC-97/15. Estimating dynamic groundwater resources in the study area employs a lumped parameter approach, considering observed field data around the plant site and data from secondary sources for analysis.

Groundwater recharge in this study was determined through an assessment that involved analyzing water table fluctuations and the specific yield of the aquifer system. This method considers how the groundwater table responds to input (recharge) and output (extraction) components. To meet the recommendations of the Groundwater Estimation Committee (GEC), it is advised that groundwater level data be available for a minimum period of 5 years, along with corresponding rainfall data. Consequently, we have gathered a dataset spanning 6 years (2016-2022) of rainfall and groundwater level data for this estimation.

Groundwater Recharge Estimation

The groundwater recharge happening mainly during the monsoon period is simulated based on the rainfall amount and other recharging sources of the aquifer system as

$$R_{rf} = (h \times S_y \times A) + D_G - R_C - R_{SW} - R_{GW} - R_{WC}$$

where R_{rf} is the monsoon recharge from rainfall, R_C is the recharge from canals, R_{SW} is the recharge from surface water irrigation, R_{GW} is the recharge from groundwater irrigation, R_{WC} is the recharge from water conservation structures. Recharge from canals/rivers and surface water irrigation are ignored here to compensate for the study area's domestic use and irrigation use. Table 25 shows the water table fluctuation during pre- and post-monsoon (IWRIS) from 2016 to 2022.

The total recharge due to rainfall is calculated by taking the catchment area having a slope of less than 20%. where, A is the total suitable recharge area (less than 20% slope) excluding the plant area = 591.14 km^2, and S_y is the Specific yield of the aquifer (10 to 30%) system. The Sy for sandy gravel formations can be taken up to 30% for a good aquifer, and a safe lumped value of 20% is used for this analysis for the entire area. By neglecting the DG - RC - RSW – RGW - RWC, an average fluctuation of 3.12 m in the

groundwater table of the areas is observed and used for calculating the total recharge from the water table fluctuation method (WTF) as

$R(WTF) = 591.14\ km^2 \times 20/100 \times 3.12\ m$

$= 368.87\ MCM$

The potential evapotranspiration over the Chatra district is 840 mm per year (GLDAS, Earth Data). Based on the number of rainy days and rainfall pattern of the area, a safe value of 420 mm (50% of the potential evapotranspiration) is taken here to represent actual evapotranspiration loss from this catchment. Thus, the water loss per annum basis is 591.14 km^2 × 420 mm, obtained as 248.28 MCM.

The net recharge of 120.59 MCM is obtained by subtracting these losses (248.28 MCM) from the total recharge of 368.87 MCM.

Table 25. Water table fluctuation during pre and post-monsoon (IWRIS)

Year	Pre-monsoon	Post-Monsoon	Fluctuations
2016	9.9	6.34	3.56
2017	8.94	5.88	3.06
2018	8.78	5.66	3.12
2019	10.62	6.09	4.53
2020	6.03	5.68	0.35
2021	7.19	5.13	2.06
2022	8.93	3.77	5.16
Average	**8.63**	**5.51**	**3.12**

Groundwater Recharge from the Infiltration Method

The dynamic groundwater recharge may also be computed using the infiltration factor method (GEC, 2015). The equation of the same is given below:

Rainfall Recharge = (Rainfall – minimum threshold) × RFIF × Area

Total area (suitable for recharge, < 20% slope) = 591.14 km^2, Average monsoon rainfall in Chatra district =949 mm (CGWB, 2022), the minimum

threshold is 10% of the rainfall, and rainfall infiltration factor (RFIF) for the terrain of Tandwa region (from GEC, 2017) = 12%

Dynamic groundwater rainfall recharge = 591.14 km^2 × (949-94.9) mm × 12/100

= 60.58 MCM

Stage of Groundwater Development:

Annual groundwater recharge = 60.58 MCM

Demand for the project and other domestic and agriculture (Lump sum) is taken as 20 MCM based on the existing land use and land cover status and evapotranspiration losses, hence

Total groundwater demand = 20 MCM

Stage of groundwater development = 20 MCM / 60.58 MCM = 33%. A similar groundwater development stage (36%) was also reported by CGWB for this area. Table 26 shows the stage of groundwater development (CGWB).

Table 26 Stage of groundwater development (CGWB)

Sr. No.	Stage of Groundwater Development	Significant Long term Decline Pre-monsoon	Post-monsoon	Categorisation
1.	<= 70%	No	No	Safe
2.	>70% and <=90%	No	No	Safe
		Yes/No	No/Yes	Semi-critical
3.	>90% and <=100%	Yes/No	No/ Yes	Semi-critical
		Yes	Yes	Critical
4.	>100%	Yes/No	No/Yes	Over-Exploited
		Yes	Yes	Over-Exploited

The above calculation based on the GEC approach shows that the dynamic groundwater resource is in the safe category in the project area and is currently

not utilised by the plant. However, the long-term sustainability of the groundwater resources is subject to future development trends, rainfall trends in future, and the prevailing land use and land cover pattern of the area. Figure 21 is showing two slope classes i.e., above and below the 20% slope in 12 km buffer zone from the plant area.

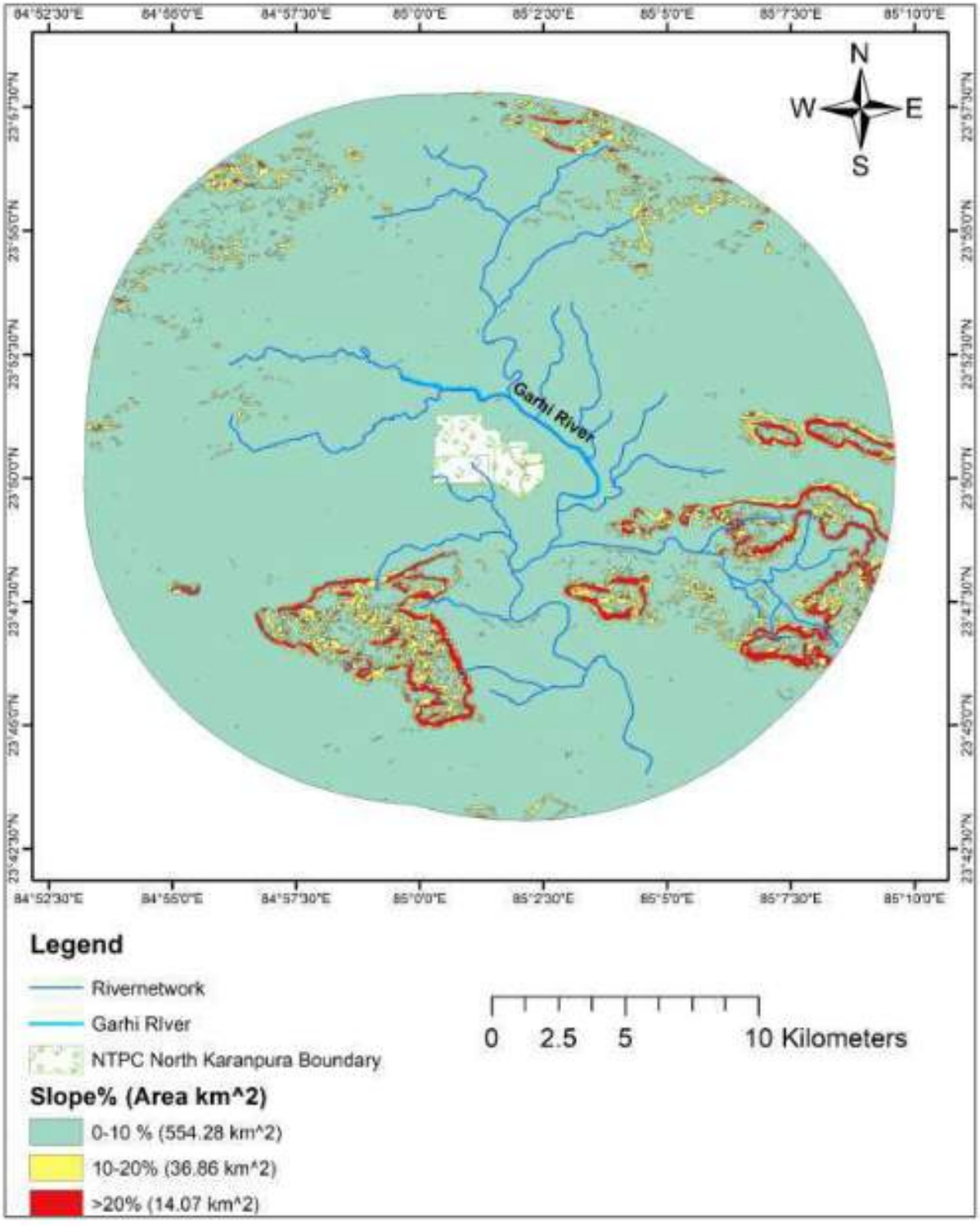


Figure 21. Map showing two slope classes i.e., above and below the 20% slope in 12 km buffer zone from the plant area.

3.8 *Status of Implementation of NTPC Rainwater harvesting Policy. Enumerate any increase/decrease in the potentials for rainwater harvesting and suggestions for augmenting ground water recharge.*

The present status of implementation of NTPC rainwater harvesting policy at the NKSTPP is in infancy stage. However, efforts could be made towards creation of adequate rainfall recharge to compensate for the loss of natural infiltration due to the impervious zones inside the pant premise due to the built-up area. At present, a substantial open area still exists both within the plant and residential colony in the form of open areas and lawns. This open area also contributes significantly to groundwater recharge.

3.8.1 *Normal and extreme rainfall of Chatra District*

The climate of Chatra district is characterised by dry hot summer and well distributed rainfall during monsoon season. The year may be divided into four seasons. The cold season starts from late November and extends up to end of February. This is followed by the hot season which continues till about the first week of June. The southwest monsoon arrives over the district in the second week of June. June to September is the period of southwest monsoon season. The post monsoon months October and November constitute a transition period from the monsoon to the winter conditions.

The average annual rainfall in the district is 1210.7 mm. The rainfall in the southwest monsoon season constitutes about 87% of the annual normal rainfall, July being the month with the highest rainfall with an average value of 333.6 mm. In the fifty-year period 1951 to 2000, the highest annual rainfall was in 1978 when it amounted to 156% of the normal. In the year 1966, the annual rainfall in the district was the lowest in the fifty-year period and amounted to only 48% of the normal. In the same fifty-year period, there were 11 years when rainfall was less than 80% of the normal. Considering the district as a whole, there was one occasion of three consecutive years and two occasions of two

consecutive years of such low rainfall. Normal monthly rainfall and number of rainy days in a month are given in Table 27.

Table 27. Normal and average number of rainy days in Chatra district

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
NR (mm)	14.8	12.5	10.6	11.7	25.9	173.7	333.6	308.2	243.3	58.5	8.0	0.5	1210.7
ANRD	1.3	1.2	1.0	0.6	1.6	7.5	14.8	14.5	10.6	2.9	0.4	0.7	

NR = Normal rainfall (mm)

ANRD = Average number of rainy days (i.e. days with rainfall of 2.5 mm or more)

3.8.2 *Estimation of rainwater harvesting potential*

Storm runoff from rainfall events can be classified into two broad categories: land-based and paved area based. The amount of rainwater that can be harvested depends on open land area, paved area, rainfall depth, storage and runoff coefficient. The volume of rainfall that can be harvested per month can be computed using the following equation.

$$VR_m = \frac{R_m \times A \times R_c}{1000} \quad (1)$$

Where

VR_m = monthly volume of runoff water (ha-m)

A = Area (ha)

R_m = Monthly rainfall (m)

R_c = runoff coefficient (dimensionless)

As per CGWB norms, the runoff coefficient from the paved area is taken as 0.8 and from the open area as 0.40. Accordingly, the monthly rainwater harvesting potential has been computed using Eq. (1), as shown in Table 28.

Table 28 Average monthly rainwater harvesting potential of NTPC North Karanpura

Month	Av monthly rainfall (mm)	Volume of rainwater from rooftop (ha-m)	Volume of rainwater from road and pavement (ha-m)	Volume of rainwater from green-belt and unpaved (ha-m)	Total rainwater harvesting potential (ha-m)
		Area 5 ha	Area 30 ha	Open area (105 ha)	
Jan	14.8	0.06	0.36	0.62	1.04
Feb	12.5	0.05	0.30	0.53	0.88
Mar	10.6	0.04	0.25	0.45	0.74
Apr	11.7	0.05	0.28	0.49	0.82
May	25.9	0.10	0.62	1.09	1.81
Jun	173.7	0.69	4.17	7.30	12.16
Jul	333.6	1.33	8.01	14.01	23.35
Aug	308.2	1.23	7.40	12.94	21.57
Sep	243.3	0.97	5.84	10.22	17.03
Oct	58.5	0.23	1.40	2.46	4.10
Nov	8.0	0.03	0.19	0.34	0.56
Dec	0.5	0.00	0.01	0.02	0.04
Total	1201.3	4.81	28.83	50.45	84.09

Since significant rainy days with appreciable rainfall occur during the months of June to October only, therefore rainwater harvesting potential may be treated as 78 ha-m per year. A part of the available rainwater may be recharged through different recharge structures such as recharge pits, recharge ponds and recharge trenches. Presence of sedimentary rock in the form of sandstone exposed on the surface indicates that this area is most suitable for rainwater harvesting by "Water Spreading Technique". It is suggested to collect the rainwater in Surface Water Ponds with recharge shafts. This will quickly recharge shallow unconfined aquifer and the semi and confined aquifers can be recharged gradually. A report on rainwater harvesting scheme for NKSTPP is already available and the same may be considered for implementation to augment recharge.

3.9 *Groundwater quality at identified locations and current sources of contamination, if any.*

Groundwater samples were collected from identified locations shown in Figure 22. The probable sources of contamination were assessed thoroughly based on the water chemical analysis of the study area.

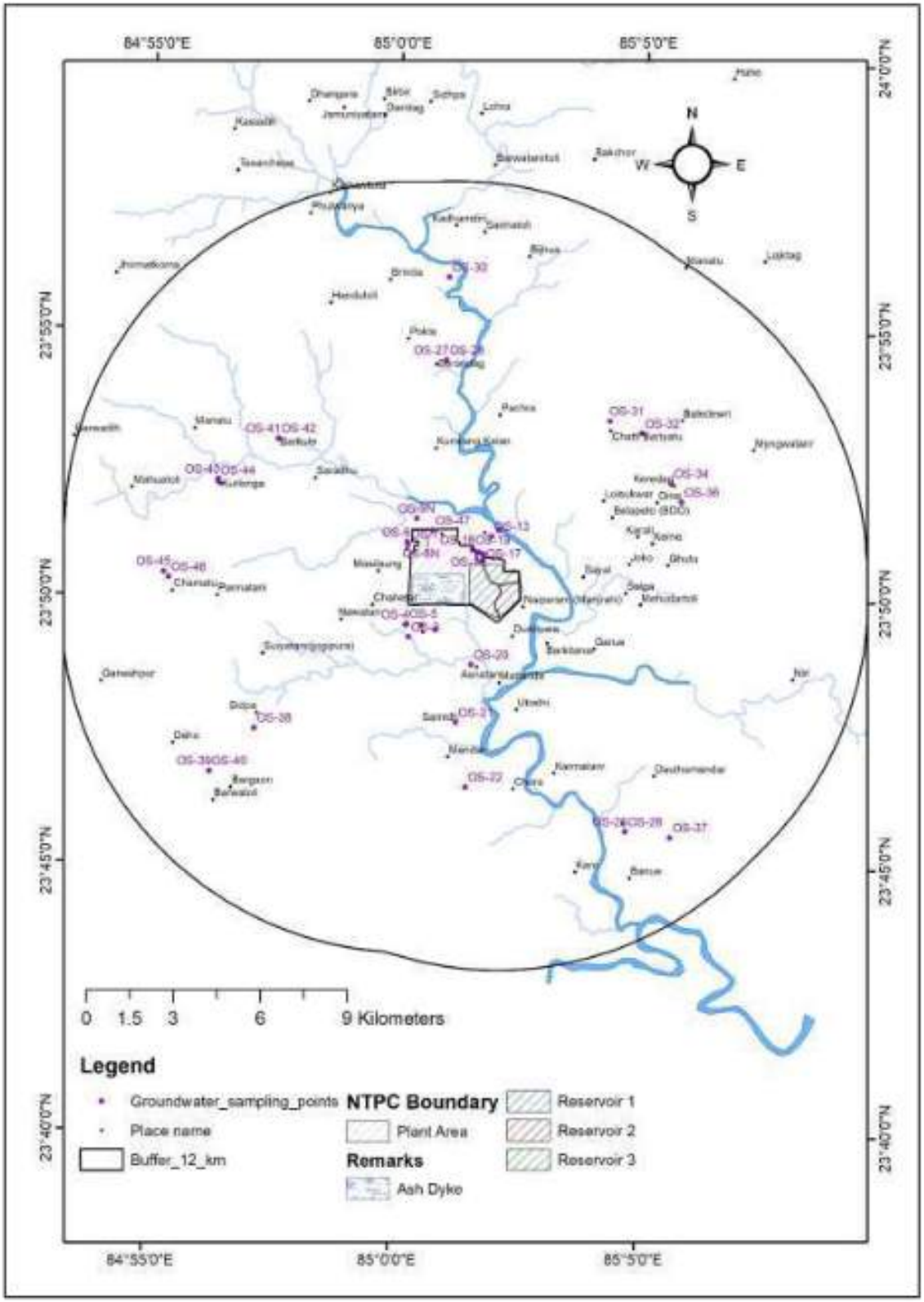


Figure 22. Map depicting locations of groundwater sampling points.

3.10 *Pre-monsoon 2023 Groundwater Quality Monitoring*

Detailed sampling locations for pre-monsoon groundwater quality analysis are listed inTable 29. Groundwater quality parameters measured from in-situ analysis during post-monsoon sampling is presented in Table 30. The concentration of dissolved oxygen (DO) ranged from 1.49 mg/L to 6.56 mg/L with a mean value of 3.08 mg/L. TDS concentrations range from 170 mg/L to 740 mg/L with an average value of 373 mg/L. The EC concentration ranged from 0.35 ms/cm to 1.49 ms/cm, with an average value of 0.76 ms/cm. The pH value ranges between 5.98-7.73, with an average value of 6.77. The temperature of groundwater in pre-monsoon period ranged from 25.6°C to 45.4°C with an average value of 27.4°C.

Table 29 Location of sampling sites for In-situ/Ex-situ during the pre-monsoon period

S.no	Code	Type of site	Latitude	Longitude	Type of Analysis
1	OS-1	Open Well	23.82485	85.00885	In-situ only
2	OS-2	Hand pump	23.82344	85.01366	In-situ and Ex-situ
3	OS-3	Hot spring	23.82115	85.0047	In-situ and Ex-situ
4	OS-6	Open Well	23.85062	85.00388	In-situ only
5	OS-8	Hand pump	23.85	85.00413	In-situ and Ex-situ
6	OS-9	Open Well	23.85812	85.00701	In-situ/Water Level
7	OS-10	Handpump	23.85478	85.03488	In-situ and Ex-situ
8	OS-15	Open Well	23.8472	85.02965	In-situ only
9	OS-16	Open Well	23.84765	85.02828	In-situ only
10	OS-17	Open Well	23.84605	85.02968	In-situ and Ex-situ
11	OS-20	Handpump	23.8127	85.02598	In-situ and Ex-situ
12	OS-21	Handpump	23.79465	85.02104	In-situ and Ex-situ
13	OS-22	Handpump	23.77459	85.02452	In-situ and Ex-situ
14	OS-26	Handpump	23.76132	85.07883	In-situ and Ex-situ
15	OS-28	Handpump	23.90753	85.01626	In-situ and Ex-situ
16	OS-30	Open well	23.93338	85.0169	In-situ and Ex-situ
17	OS-34	Handpump	23.86991	85.09298	In-situ and Ex-situ
18	OS-36	Handpump	23.86418	85.09657	In-situ and Ex-situ
19	OS-37	Open Well	23.7596	85.09406	In-situ and Ex-situ
20	OS-38	Hand pump	23.79218	84.95276	In-situ and Ex-situ
21	OS-40	Handpump	23.7786	84.93775	In-situ and Ex-situ
22	OS-42	Hand pump	23.88246	84.95973	In-situ and Ex-situ
23	OS-44	Hand pump	23.86909	84.93928	In-situ and Ex-situ
24	OS-45	Hand pump	23.84063	84.92143	In-situ and Ex-situ

Table 30 Mean values of pH, EC, TDS, DO, and temperature obtained in the groundwater samples from In-situ analysis during the pre-monsoon period 2023.

S.No.	Code	pH	EC(mS)	TDS (ppm)	DO(mg/l)	E(m)	T (°C)
1	OS-1	6.96	1.05	520	3.56	453	26.2
2	OS-2	7.2	0.75	370	4.41	448	26.4
3	OS-3	6.38	0.76	380	2.52	440	45.4
4	OS-6	6.81	0.85	410	2.9	473	26.8
5	OS-8	6.7	0.87	430	1.92	474	26.4
6	OS-9	7.41	0.72	360	4.71	465	26.6
7	OS-10	6.64	1.16	580	2.06	441	25.6
8	OS-15	7.31	0.99	490	6.56	456	26.6
9	OS-16	7.42	0.43	220	4.68	457	27.2
10	OS-17	7.47	0.4	190	4.52	456	26.9
11	OS-20	6.51	0.59	290	1.83	432	26.8
12	OS-21	5.98	0.61	300	2.12	453	26.6
13	OS-22	6.62	0.7	340	2.11	449	27.3
14	OS-26	6.45	0.62	310	1.5	434	27.3
15	OS-28	6.51	0.7	340	1.96	479	26.5
16	OS-30	7.22	0.35	170	4.59	486	25.7
17	OS-34	6.92	0.77	380	2.14	457	26.1
18	OS-36	6.74	0.9	450	1.49	451	26.7
19	OS-37	7.73	0.63	310	4.84	-	26.9
20	OS-38	6.43	0.74	340	2.85	490	26.9
21	OS-40	6.7	1.49	740	2.16	472	26.3
22	OS-42	5.98	0.66	330	4.1	492	26.8
23	OS-44	6.05	0.99	490	1.85	505	26.3
24	OS-45	6.25	0.45	220	2.53	531	26.4
BIS	AL	6.5-8.5	NS	500	NS	-	-
Limits	PL	NR		2000			

AL: acceptable limit; PL: permissible limit in the absence of alternate source; NR: no relaxation

Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected as per BIS guidelines.

Furthermore, samples like OS-1, OS-6, OS-15 and OS-16 were used only for in-situ measurements along with water level measurement. Rest of the sample (n=20) collected during pre-monsoon season were examined using inductively coupled plasma mass spectrometry/Microwave plasma atomic emission spectroscopy (ICP-MS/MP-AES) and Ion Chromatography (IC) for finding

the concentration of heavy metals and other elements in the groundwater samples. All the samples were first acid digested, diluted to a suitable degree, filtered through a 0.45-micron filter, and then proceeded for ICP-MS/MP-AES analysis. The purpose of acid digestion is to destroy the matrix, which otherwise interferes during atomization. Also, digestion converts all forms of metal into a single oxidation state. Samples are analysed using ICP-MS for Li, B, Na, Mg, Al, K, Ca, Cr, Cd, Mn, Fe, Co, Ni, Cu, Zn, As, Sr, Ag, Ba, Hg, Pb, Rh, and results after correction are listed in Table 31. The provided data table offers a summary of various chemical elements, including their mean, minimum, and maximum concentrations. Lithium (Li) had a mean concentration of 0.002 ppm, with a minimum of BDL and a maximum of 0.012 ppm. Boron (B) had a mean concentration of 0.02 ppm, with a minimum of 0.01 ppm and a maximum of 0.05 ppm. Aluminum (Al) exhibited a mean concentration of 1.3 ppm, with values ranging from 1 ppm to 1.6 ppm. Chromium (Cr) had a mean concentration of 0.13 ppm, with a minimum of 0.12 ppm and a maximum of 0.15 ppm. Manganese (Mn) showed a mean concentration of 0.17 ppm, with a minimum of 0.03 ppm and a maximum of 0.82 ppm. Iron (Fe) displayed a mean concentration of 1.1 ppm, with a minimum of 0.6 ppm and a maximum of 2.8 ppm. Cobalt (Co) had a mean concentration of 0.007 ppm, with a minimum of 0.002 ppm and a maximum of 0.052 ppm. Nickel (Ni) exhibited a mean concentration of 0.06 ppm, with a minimum of 0.05 ppm and a maximum of 0.10 ppm. Copper (Cu) showed a mean concentration of 0.04 ppm, with a minimum of 0.02 ppm and a maximum of 0.07 ppm. Zinc (Zn) had a mean concentration of 1.32 ppm, with a minimum of 0.09 ppm and a maximum of 19.23 ppm. Arsenic (As) had a mean concentration of 0.002 ppm, with a minimum of 0.001 ppm and a maximum of 0.004 ppm. Strontium (Sr) exhibited a mean concentration of 0.37 ppm, with a minimum of 0.06 ppm and a maximum of 1.32 ppm. Cadmium (Cd) had a mean concentration of 0.004 ppm, with a minimum of 0.002 ppm and a maximum of 0.004 ppm. Barium (Ba) displayed a mean concentration of 0.2 ppm, with a minimum of 0.1 ppm and a maximum of 0.8 ppm. The concentration of Mercury (Hg) ranged from BDL to 0.002 with a mean value 0.0002 ppm. Lastly, lead (Pb) concentration ranged from BDL to 0.01 ppm with mean value of <0.01 ppm.

Table 31 Mean concentration of elements obtained in the water samples during the pre-monsoon period 2023 from ICP-MS analysis with BIS limits of IS 10500:2012.

S.No.	Code	Li	B	Al	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Ag	Cd	Ba	Hg	Pb
1	OS-2	0.001	0.02	1.09	0.12	BDL	0.8	0.004	0.05	0.03	0.11	0.004	0.59	ND	0.004	0.1	0.002	BDL
2	OS-3	0.012	0.03	1.34	0.14	0.1	0.8	0.004	0.06	0.03	0.10	0.003	0.47	ND	0.004	0.8	0.001	BDL
3	OS-8	0.002	0.05	1.17	0.13	BDL	0.8	0.004	0.06	0.03	1.31	0.003	0.25	ND	0.004	0.1	0.001	BDL
4	OS-9	0.002	0.02	1.04	0.12	0.1	0.6	0.003	0.05	0.02	0.09	0.003	0.35	ND	0.003	0.1	BDL	BDL
5	OS-10	0.001	0.04	1.19	0.14	0.8	0.7	0.004	0.06	0.02	0.13	0.003	0.33	ND	0.004	0.3	BDL	BDL
6	OS-17	0.001	0.02	1.14	0.13	BDL	0.6	0.003	0.05	0.02	0.10	0.003	0.14	ND	0.003	0.1	BDL	0.01
7	OS-20	0.001	0.01	1.09	0.13	BDL	1.4	0.003	0.05	0.02	0.17	0.002	0.15	ND	0.003	0.1	BDL	BDL
8	OS-21	0.004	0.03	1.08	0.12	0.4	2.5	0.052	0.07	0.03	19.23	0.002	0.13	ND	0.003	0.2	BDL	0.01
9	OS-22	BDL	0.02	1.05	0.12	0.1	0.7	0.003	0.05	0.02	0.21	0.002	0.64	ND	0.003	0.7	BDL	BDL
10	OS-26	BDL	0.01	1.34	0.14	0.3	0.9	0.003	0.06	0.03	1.38	0.002	0.39	ND	0.003	0.2	BDL	0.01
11	OS-28	0.008	0.02	1.28	0.14	0.3	2.2	0.023	0.10	0.03	1.67	0.002	0.16	ND	0.003	0.2	BDL	0.01
12	OS-30	0.002	0.02	1.25	0.14	BDL	0.7	0.002	0.07	0.03	0.14	0.001	0.06	ND	0.002	0.2	BDL	0.01
13	OS-34	0.002	0.03	1.45	0.15	0.1	0.9	0.003	0.06	0.05	0.35	0.001	0.52	ND	0.004	0.4	BDL	BDL
14	OS-36	BDL	0.03	1.36	0.14	0.1	1.2	0.002	0.06	0.05	0.18	0.001	0.47	ND	0.004	0.4	BDL	BDL
15	OS-37	BDL	0.01	1.37	0.14	BDL	0.8	0.002	0.06	0.05	0.15	0.001	0.14	ND	0.004	0.1	BDL	BDL
16	OS-38	0.001	0.03	1.33	0.14	0.2	2.8	0.002	0.05	0.05	0.16	0.001	0.46	ND	0.004	0.1	BDL	0.01
17	OS-40	0.001	0.02	1.28	0.13	0.1	1.1	0.002	0.06	0.05	0.26	0.001	1.32	ND	0.004	0.2	BDL	0.01
18	OS-41	0.002	0.02	1.60	0.14	0.1	1.3	0.007	0.07	0.07	0.25	0.001	0.20	ND	0.004	0.2	BDL	0.01
19	OS-44	0.002	0.04	1.32	0.14	0.5	0.9	0.002	0.05	0.05	0.18	0.001	0.46	ND	0.004	0.1	BDL	0.01
20	OS-45	0.001	0.01	1.53	0.14	0.1	1.2	0.003	0.06	0.06	0.17	0.001	0.16	ND	0.004	0.1	BDL	BDL
BIS Limits	AL	NS	0.5	0.03	0.05	0.1	0.3	NS	0.02	0.05	5	0.01	NS	0.1	0.003	0.7	0.001	0.01
	PL		1	0.2	NR	0.3	NR		NR	1.5	15	0.05		NR	NR	NR	NR	NR

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit. Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected as per BIS guidelines.



For measuring the major ion concentration groundwater samples were analysed using ion chromatography (IC) for Cl, SO_4^{2-}, F, and NO_3^-. The results of pre - monsoon periods and their comparison with BIS limits are listed in Table 32. The Ca concentration ranged from 55.2 ppm to 395.6 ppm, with an average value of 176.3 ppm. The K concentration ranged from 0.4 ppm to 49.1 ppm, with an average value of 8.3 ppm. Likewise, the Mg concentration ranged from 7.9 ppm to 48.2 ppm, with an average value of 23.79 ppm. Further, the Na content ranged from 5.85 to 50.3 ppm, with an average of 28.5 ppm. The NO_3 content ranged from below the detection limit (BDL) to 215.1 ppm, with an average of 30.3 ppm. The total alkalinity (TA) ranged from 53 to 317 ppm, with an average of 169.5 ppm. The chloride concentration ranged from 13 to 250.2 ppm, with an average of 69.4 ppm. Total hardness (TH) content in the present study area ranged from 203.8 ppm to 1087.4 ppm, with an average of 169.5 ppm. Sulphate concentrations ranged from 8.2 ppm to 191.1 ppm, with an average of 83.2 ppm. Fluoride (F) concentrations ranged from 0.2 ppm to 3.2 ppm, with an average of 1.1 ppm. Bromide (Br) concentrations ranged from BDL to 3.1 ppm.

Table 32. Mean concentration of elements (Chloride, Nitrate, Sulphate, and Fluoride) obtained in the water samples during the pre-monsoon period 2021 from IC analysis compared with BIS limits of IS 10500:2012

S.NO.	Code	Ca	K	Mg	Na	F	Cl	Br	NO_3	PO_4	SO_4	TH	TA
1	OS-2	55.2	1.8	28.2	28.9	0.4	79.80	3.11	36.4	ND	39	254	53
2	OS-3	87.6	26.9	19.0	29.8	**2.7**	57.3	BDL	7.4	ND	39.6	297	175
3	OS-8	126.8	4.6	26.1	37.3	1.4	71.1	BDL	5	ND	142.1	424	183
4	OS-9	95.3	3.0	32.0	18.5	1.1	56.5	BDL	10.5	ND	83.2	370	115
5	OS-10	137.2	10.9	34.2	45.2	0.9	164.3	BDL	1	ND	137.3	483	126
6	OS-17	57.6	1.7	14.6	15.0	0.7	23.7	BDL	BDL	ND	16.9	204	175
7	OS-20	149.1	0.4	11.6	16.8	0.6	30.8	BDL	36	ND	59.5	420	210
8	OS-21	100.6	12.2	11.6	35.4	**1.6**	53.9	BDL	11	ND	110.6	299	310
9	OS-22	197.3	4.8	29.6	16.6	0.8	16.2	BDL	1.1	ND	33.8	**615**	145
10	OS-26	**279.0**	3.3	20.8	5.9	0.6	13	BDL	2.4	ND	22.4	**782**	135
11	OS-28	**225.3**	14.3	9.8	31.7	**2.3**	119.9	BDL	**66.5**	ND	122.3	**603**	317
12	OS-30	86.8	19.8	7.9	30	0.8	35.9	BDL	36.6	ND	35.5	249	164
13	OS-34	**248.6**	2.9	40	50.3	1.0	65.1	BDL	1.7	ND	120.6	**786**	92
14	OS-36	**360.1**	1.8	35.1	33.4	0.5	60.7	BDL	6.6	ND	103.5	**1044**	110
15	OS-37	188.9	2.1	23.5	48.5	1.1	15.9	BDL	1.4	ND	56.4	569	167
16	OS-38	**395.6**	0.8	24.2	18.2	0.5	24.9	BDL	3.1	ND	45.5	**1087**	146
17	OS-40	105.3	2	48.2	33.9	0.6	250.2	BDL	28.5	ND	171.3	462	192
18	OS-41	**237.6**	49.1	15.5	33.7	0.2	85.5	BDL	**129.2**	ND	125.2	**657**	134
19	OS-44	73.2	1.6	26.1	29.6	0.5	138.9	BDL	**215.1**	ND	191.1	290	176
20	OS-45	**318.5**	2.3	17.8	11.2	**3.2**	23.7	BDL	6.3	ND	8.2	**869**	264
BIS	AL	75	NS	30	NS	1	250	NS	45	NS	200	200	200
Limits	PL	200		100		1.5	1000		NR		400	600	600

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit. Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected as per BIS guidelines.

3.11 *Post-monsoon 2023 water quality monitoring*

Detailed sampling locations for post-monsoon groundwater quality analysis are listed in Table 33. Groundwater quality parameters measured from in-situ analysis during post-monsoon sampling is presented in Table 34. The pH value ranges between 6.04-7.58, with an average value of 7. The EC concentration ranged from 0.34 ms/cm to 1.3 ms/cm, with an average value of 0.8 ms/cm. TDS concentrations range from 170 mg/L to 650 mg/L with an average value of 381.7 mg/L. The concentration of dissolved oxygen (DO) ranged from 0.91 mg/L to 6.31 mg/L with a mean value of 3.4 mg/L. The temperature of groundwater in post-monsoon period ranged from 24.1°C to 45.6°C with an average value of 27.1°C.

Table 33 Location of sampling sites for In-situ/Ex-situ during the post-monsoon period

S.no	Code	Type of site	Latitude	Longitude	Type of Analysis
1	OS-1	Open Well	23.82485	85.00885	In-situ only
2	OS-2	Hand pump	23.82344	85.01366	In-situ and Ex-situ
3	OS-3	Hot spring	23.82115	85.0047	In-situ and Ex-situ
4	OS-6	Open Well	23.85062	85.00388	In-situ only
5	OS-8	Hand pump	23.85	85.00413	In-situ and Ex-situ
6	OS-9	Open Well	23.85812	85.00701	In-situ/Water Level
7	OS-10	Handpump	23.85478	85.03488	In-situ and Ex-situ
8	OS-15	Open Well	23.8472	85.02965	In-situ only
9	OS-16	Open Well	23.84765	85.02828	In-situ only
10	OS-17	Open Well	23.84605	85.02968	In-situ and Ex-situ
11	OS-20	Handpump	23.8127	85.02598	In-situ and Ex-situ
12	OS-21	Handpump	23.79465	85.02104	In-situ and Ex-situ
13	OS-22	Handpump	23.77459	85.02452	In-situ and Ex-situ
14	OS-26	Handpump	23.76132	85.07883	In-situ and Ex-situ
15	OS-28	Handpump	23.90753	85.01626	In-situ and Ex-situ
16	OS-30	Open well	23.93338	85.0169	In-situ and Ex-situ
17	OS-34	Handpump	23.86991	85.09298	In-situ and Ex-situ
18	OS-36	Handpump	23.86418	85.09657	In-situ and Ex-situ
19	OS-37	Open Well	23.7596	85.09406	In-situ and Ex-situ
20	OS-38	Hand pump	23.79218	84.95276	In-situ and Ex-situ
21	OS-40	Handpump	23.7786	84.93775	In-situ and Ex-situ
22	OS-42	Hand pump	23.88246	84.95973	In-situ and Ex-situ
23	OS-44	Hand pump	23.86909	84.93928	In-situ and Ex-situ
24	OS-45	Hand pump	23.84063	84.92143	In-situ and Ex-situ



Table 34 Mean values of pH, EC, TDS, DO, and temperature obtained in the groundwater samples from In-situ analysis during the post-monsoon period 2023.

S.No.	Code	pH	EC(mS)	TDS (ppm)	DO(mg/l)	E(m)	T (°C)
1	OS-1	6.96	1.05	**520**	3.56	453	26.2
2	OS-2	7.2	0.75	370	4.41	448	26.4
3	OS-3	6.38	0.76	380	2.52	440	45.4
4	OS-6	6.81	0.85	410	2.9	473	26.8
5	OS-8	6.7	0.87	430	1.92	474	26.4
6	OS-9	7.41	0.72	360	4.71	465	26.6
7	OS-10	6.64	1.16	**580**	2.06	441	25.6
8	OS-15	7.31	0.99	490	6.56	456	26.6
9	OS-16	7.42	0.43	220	4.68	457	27.2
10	OS-17	7.47	0.4	190	4.52	456	26.9
11	OS-20	6.51	0.59	290	1.83	432	26.8
12	OS-21	**5.98**	0.61	300	2.12	453	26.6
13	OS-22	6.62	0.7	340	2.11	449	27.3
14	OS-26	**6.45**	0.62	310	1.5	434	27.3
15	OS-28	6.51	0.7	340	1.96	479	26.5
16	OS-30	7.22	0.35	170	4.59	486	25.7
17	OS-34	6.92	0.77	380	2.14	457	26.1
18	OS-36	6.74	0.9	450	1.49	451	26.7
19	OS-37	7.73	0.63	310	4.84	-	26.9
20	OS-38	**6.43**	0.74	340	2.85	490	26.9
21	OS-40	6.7	1.49	**740**	2.16	472	26.3
22	OS-42	**5.98**	0.66	330	4.1	492	26.8
23	OS-44	**6.05**	0.99	490	1.85	505	26.3
24	OS-45	**6.25**	0.45	220	2.53	531	26.4
BIS Limits	AL	6.5-8.5	NS	500	NS	-	-
	PL	NR		2000			

AL: acceptable limit; PL: permissible limit in the absence of alternate source; NR: no relaxation

Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected.

The concentration of heavy metals and other elements in the groundwater samples were measured through ICP-MS/MP-AES analysis listed in Table 35. Lithium (Li) had a mean concentration of 0.015 ppm, with a minimum of BDL and a maximum of 0.01 ppm. Boron (B) had a mean concentration of 0.03 ppm, with a minimum of 0.01 ppm and a maximum of 0.08 ppm. Aluminum (Al) exhibited a mean

concentration of 0.12 ppm, with values ranging from 0.09 ppm to 0.16 ppm. Chromium (Cr) had a mean concentration of 0.02 ppm, with a minimum of 0.02 ppm and a maximum of 0.03 ppm. Manganese (Mn) showed a mean concentration of 0.86 ppm, with a minimum of 0.7 ppm and a maximum of 1.1 ppm. Iron (Fe) displayed a mean concentration of 0.52 ppm, with a minimum of 0.14 ppm and a maximum of 4.8 ppm. Cobalt (Co) had a mean concentration of 0.002 ppm, with a minimum of 0.001 ppm and a maximum of 0.009 ppm. Nickel (Ni) exhibited a mean concentration of 0.02 ppm, with a minimum of 0.01 ppm and a maximum of 0.05 ppm. Copper (Cu) showed a mean concentration of 0.007 ppm, with a maximum of 0.02 ppm. Zinc (Zn) had a mean concentration of 0.46 ppm, with a minimum of 0.02 ppm and a maximum of 3.74 ppm. Arsenic (As) had a mean concentration of 0.001 ppm, with BDL to 0.002 ppm. Strontium (Sr) exhibited a mean concentration of 0.46 ppm, with a minimum of 0.09 ppm and a maximum of 1.99 ppm. Cadmium (Cd) had a mean concentration of 0.003 ppm, with a minimum of 0.001 ppm and a maximum of 0.004 ppm. Barium (Ba) displayed a mean concentration of 0.31 ppm, with a minimum of 0.4 ppm and a maximum of 1.2 ppm. The concentration of Mercury (Hg) ranged from BDL to 0.002 with a negligible mean value.

Table 35 Mean concentration of elements obtained in the water samples during the post-monsoon period 2023 from ICP-MS analysis with BIS limits of IS 10500:2012.

S.No.	Code	Li	B	Al	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Ag	Cd	Ba	Hg	Pb
1	OS-2	BDL	0.06	0.11	0.02	0.7	0.2	0.002	0.01	0.01	0.18	0.002	0.32	ND	0.003	0.2	0.002	BDL
2	OS-3	0.1	0.03	0.10	0.02	0.9	0.2	0.001	0.01	0.01	0.08	0.001	0.53	ND	**0.004**	**0.9**	0.002	BDL
3	OS-8	BDL	0.06	0.16	0.02	0.8	**1.9**	0.001	0.01	0.02	1.31	0.002	0.31	ND	0.003	0.1	0.001	BDL
4	OS-9	BDL	0.01	0.12	0.03	1.1	0.2	0.001	0.01	BDL	0.10	0.001	0.34	ND	0.003	0.2	0.001	BDL
5	OS-10	BDL	0.01	0.12	0.02	0.8	0.2	0.001	0.01	0.01	0.02	0.001	0.16	ND	0.002	0.3	ND	BDL
6	OS-17	BDL	0.02	0.12	0.02	0.8	0.1	0.001	0.01	BDL	0.02	0.002	0.19	ND	0.003	0.1	0.001	BDL
7	OS-20	BDL	0.00	0.12	0.02	0.8	**0.9**	0.001	0.01	0.01	0.19	0.001	0.15	ND	0.003	0.1	ND	BDL
8	OS-21	BDL	0.03	0.16	0.02	1.1	0.2	0.009	0.02	0.01	3.74	0.001	0.15	ND	0.003	0.1	ND	BDL
9	OS-22	BDL	0.02	0.09	0.02	0.8	0.1	0.001	0.01	0.01	0.07	0.001	0.84	ND	0.002	**0.8**	ND	BDL
10	OS-26	BDL	0.01	0.10	0.02	1.0	**4.8**	0.002	0.02	0.01	1.23	0.001	0.40	ND	0.002	0.2	ND	BDL
11	OS-28	0.1	0.01	0.11	0.02	0.9	0.2	0.007	**0.05**	BDL	0.95	0.001	0.21	ND	0.002	0.2	ND	BDL
12	OS-30	BDL	0.02	0.15	0.02	0.8	0.2	0.002	**0.05**	BDL	0.26	0.001	0.09	ND	0.004	0.3	ND	BDL
13	OS-34	BDL	0.08	0.12	0.02	0.8	0.1	0.001	0.01	BDL	0.02	0.001	0.66	ND	0.002	**1.2**	ND	BDL
14	OS-36	BDL	0.02	0.10	0.02	0.8	0.2	0.001	0.01	0.01	0.05	0.001	0.57	ND	0.002	0.4	ND	BDL
15	OS-37	BDL	0.01	0.13	0.02	0.8	0.2	0.001	0.01	BDL	0.17	0.001	0.88	ND	0.002	0.6	ND	BDL
16	OS-38	BDL	0.03	0.14	0.02	1.0	0.3	0.001	0.01	0.01	0.07	0.001	0.52	ND	**0.004**	0.1	ND	BDL
17	OS-40	BDL	0.06	0.10	0.02	0.7	0.2	0.001	0.01	BDL	0.62	0.001	1.99	ND	0.001	0.3	ND	BDL
18	OS-41	BDL	0.01	0.09	0.02	0.7	0.1	0.005	**0.03**	0.02	0.11	0.001	0.20	ND	0.002	0.2	ND	BDL
19	OS-44	BDL	0.05	0.12	0.02	1.0	0.2	0.001	0.01	BDL	0.04	0.001	0.51	ND	0.001	0.1	ND	BDL
20	OS-45	BDL	0.01	0.12	0.02	0.9	0.2	0.001	0.01	BDL	0.05	0.001	0.18	ND	0.002	ND	ND	BDL
BIS Limits	**AL**	**NS**	**0.5**	**0.03**	**0.05**	**0.1**	**0.3**	**NS**	**0.02**	**0.05**	**5**	**0.01**	**NS**	**0.1**	**0.003**	**0.7**	**0.001**	**0.01**
	PL		**1**	**0.2**	**NR**	**0.3**	**NR**		**NR**	**1.5**	**15**	**0.05**		**NR**	**NR**	**NR**	**NR**	**NR**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit. Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected as per BIS guidelines.

For measuring the major ion concentration groundwater samples were analysed using ion chromatography (IC) for Cl, SO_4^{2-}, F, and NO_3^-. The results of post-monsoon period and their comparison with BIS limits are listed in Table 36. The Ca concentration ranged from 22.2 ppm to 113.6 ppm, with an average value of 72.5 ppm. The K concentration ranged from 0.15 ppm to 23.1 ppm, with an average value of 5.8 ppm. Likewise, the Mg concentration ranged from 8.85 ppm to 39.2 ppm, with an average value of 21.4 ppm. Further, the Na content ranged from 16.4 to 431.9 ppm, with an average of 122.6 ppm. The NO_3 content ranged from 0.4 ppm to 131.3 ppm, with an average of 23.9 ppm. The total alkalinity (TA) ranged from 110 to 355 ppm, with an average of 189.5 ppm. The chloride concentration ranged from 3.5 to 124.8 ppm, with an average of 45 ppm. Total hardness (TH) content in the present study area ranged from 97.4 ppm to 440.4 ppm, with an average of 269.3 ppm. Sulphate concentrations ranged from 1.4 ppm to 81.4 ppm, with an average of 37.1 ppm. Fluoride (F) concentrations ranged from 0.04 ppm to 3.4 ppm, with an average of 0.7 ppm. Bromide (Br) concentrations ranged from BDL to 3.5 ppm with an average value of 2.4 ppm.

Table 36. Mean concentration of major ions observed in groundwater samples and their comparison with BIS limits of IS 10500:2012

S.NO.	Code	Ca	K	Mg	Na	F	Cl	Br	NO_3	PO_4	SO_4	TH	TA
1	OS-2	98.7	23.1	30.9	133.2	0.3	59.9	2.3	**88.7**	ND	66.0	373.7	110
2	OS-3	60.2	14.3	18.0	105.0	**3**	45.1	2.4	2.1	2.2	18.9	224.3	210
3	OS-8	103.1	8.1	30.8	158.4	0.3	46.2	2.3	6	ND	67.9	383.9	195
4	OS-9	113.6	1.2	38.1	217.5	0.3	86.4	2.2	29.9	ND	44.1	440.4	155
5	OS-10	36.6	1.7	14.0	39.9	0.3	8.3	2.3	1.5	ND	19.0	148.8	130
6	OS-17	46.2	0.3	16.8	51.2	0.3	18.1	3.2	0.5	ND	8.8	184.5	210
7	OS-20	62.9	0.8	8.9	35.7	0.1	18.3	2.5	28	ND	25.4	193.4	255
8	OS-21	61.5	6.5	13.8	131.0	0.7	67.1	2.2	1.9	ND	81.4	210.4	295
9	OS-22	100.1	2.3	38.6	56.1	0.04	5.6	3.5	0.4	ND	6.6	408.6	110
10	OS-26	92.6	0.9	22.2	16.4	0.2	6.3	3.4	0.7	ND	36.8	322.5	185
11	OS-28	91.5	12.3	10.7	112.5	1	98.8	2.0	**69.9**	ND	53.2	272.3	355
12	OS-30	22.2	14.0	10.2	111.9	0.7	40.1	BDL	24.7	ND	40.8	97.44	175
13	OS-34	63.5	0.9	31.7	431.9	**3.4**	124.8	2.2	7.4	ND	29.8	288.8	110
14	OS-36	103.5	0.2	39.2	113.9	0.2	46.4	2.4	6.7	ND	53.2	419.7	145
15	OS-37	49.5	5.9	15.3	103.4	0.05	20.3	2.2	0.6	ND	14.8	186.6	175
16	OS-38	102.8	0.5	23.4	50.3	0.1	3.5	3.5	0.4	ND	13.0	352.9	195
17	OS-40	68.9	2.0	11.9	354.8	0.7	55.5	2.4	0.5	ND	33.2	220.7	210
18	OS-41	42.8	21.5	11.6	97.8	0.1	56.4	2.0	**75.2**	ND	59.6	154.3	145
19	OS-44	60.5	0.2	25.5	90.2	0.1	77.9	2.0	**131.3**	ND	69.1	256	170
20	OS-45	70.8	0.5	17.1	41.6	**2.4**	14.0	2.3	1.3	ND	1.4	247.2	255
BIS	**AL**	**75**	**NS**	**30**	**NS**	**1**	**250**	**NS**	**45**	**NS**	**200**	**200**	**200**
Limits	**PL**	**200**		**100**		**1.5**	**1000**		**NR**		**400**	**600**	**600**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit. Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected as per BIS guidelines.

3.12 *Pre-monsoon 2024 groundwater quality monitoring*

Groundwater quality parameters measured from in-situ analysis during pre-monsoon 2024 sampling is presented in Table 37. The concentration of dissolved oxygen (DO) ranged from 1.20 mg/L to 9.10 mg/L with a mean value of 4.09 mg/L. TDS concentrations range from 110 mg/L to 710 mg/L with an average value of 374.8 mg/L. The EC concentration ranged from 0.29 ms/cm to 1.43 ms/cm, with an average value of 0.76 ms/cm. The pH value ranges between 6.32-7.89, with an average value of 7.08. The temperature of groundwater in pre-monsoon period ranged from 25.50°C to 46.30°C with an average value of 29.04°C.

Sample collected during pre-monsoon season were examined using inductively coupled plasma mass spectrometry/Microwave plasma atomic emission spectroscopy (ICP-MS/MP-AES) and Ion Chromatography (IC) for finding the concentration of heavy metals and other elements in the groundwater samples. The concentration of heavy metals and other elements in the groundwater samples were measured through ICP-MS/MP-AES analysis listed in Table 38. All the samples were first acid digested, diluted to a suitable degree, filtered through a 0.45-micron filter, and then proceeded for ICP-MS/MP-AES analysis. The purpose of acid digestion is to destroy the matrix, which otherwise interferes during atomization. Also, digestion converts all forms of metal into a single oxidation state. Samples are analysed using ICP-MS for Li, B, Na, Mg, Al, K, Ca, Cr, Cd, Mn, Fe, Co, Ni, Cu, Zn, As, Sr, Ag, Ba, Hg, Pb, Rh, and results after correction are listed in Table 38. The provided data table offers a summary of various chemical elements. Lithium (Li) had a mean concentration of 0.139 ppm, with a minimum of 0.007 and a maximum of 2.693 ppm. Boron (B) had a mean concentration of 0.010 ppm, with a minimum of 0.006 ppm and a maximum of 0.034 ppm. Aluminum (Al) exhibited a mean concentration of 0.005 ppm, with values ranging from 0.002 to 0.055 ppm. Chromium (Cr) had a mean concentration of 0.001 ppm, with a minimum of 0.001 ppm and a maximum of 0.002 ppm. Manganese (Mn) showed a mean concentration of 0.007 ppm, with a minimum of 0.000 ppm and a maximum of 0.066 ppm. Iron (Fe) displayed a mean concentration of 0.004 ppm, with a minimum of 0.003 ppm

and a maximum of 0.010 ppm. Cobalt (Co) had a mean concentration of 0.000 ppm, with a minimum of 0.000 ppm and a maximum of 0.001 ppm. Nickel (Ni) exhibited a mean concentration of 0.001 ppm, with a minimum of 0.000 ppm and a maximum of 0.007 ppm. Copper (Cu) showed a mean concentration of 0.001 ppm, with a minimum of 0.000 ppm and a maximum of 0.010 ppm. Zinc (Zn) had a mean concentration of 0.021 ppm, with a minimum of 0.003 ppm and a maximum of 0.151 ppm. Arsenic (As) had a mean concentration of 0.000 ppm, with a minimum of 0.000 ppm and a maximum of 0.000 ppm. Strontium (Sr) exhibited a mean concentration of 0.026 ppm, with a minimum of 0.004 ppm and a maximum of 0.090 ppm. The average Cadmium (Cd) concentrations are found to be negligible with values ranged from BDL to 0.001 ppm. Barium (Ba) displayed a mean concentration of 0.015 ppm, with a minimum of 0.004 ppm and a maximum of 0.075 ppm. The Mercury (Hg) and lead (Pb) concentrations are found to be negligible.

For measuring the major ion concentration groundwater samples were analysed using ion chromatography (IC) for Cl, SO_4^{2-}, F, and NO_3^-. The results of pre - monsoon periods and their comparison with BIS limits are listed in Table 39**.** The Ca concentration ranged from 0.90 ppm to 74.25 ppm, with an average value of 12.42 ppm. The K concentration ranged from 8.10 ppm to 80.00 ppm, with an average value of 35.99 ppm. Likewise, the Mg concentration ranged from 15.55ppm to 97.65 ppm, with an average value of 56.91 ppm. Further, the Na content ranged from 7.50 to 66.45 ppm, with an average of 29.68 ppm. The NO_3 content ranged from below the detection limit 0.000 to 153.04 ppm, with an average of 20.16 ppm. The total alkalinity (TA) ranged from 118.20 to 428.40 ppm, with an average of 275.16 ppm. The chloride concentration ranged from 4.21 to 148.18 ppm, with an average of 58.24 ppm. Total hardness (TH) content in the present study area ranged from 4.38 ppm to 107.54 ppm, with an average of 36.24 ppm. Sulphate concentrations ranged from 4.38 ppm to 96.53 ppm, with an average of 35.59 ppm. Fluoride (F) concentrations ranged from 0.00 ppm to 3.37 ppm, with an average of 0.78 ppm. The Bromide (Br)concentrations are found to be negligible.

Table 37 Mean values of pH, EC, TDS, DO, and temperature observed in surface water samples during In-situ analysis in pre-monsoon period 2024.

S.No.	Code	pH	EC (mS)	TDS (ppm)	DO (mg/l)	T (°C)
1.	OS 1	7.39	1.14	570	5.30	26.90
2.	OS 2	7.15	1.10	550	4.79	28.40
3.	OS 3	6.51	0.77	380	1.20	46.30
4.	OS-6	7.36	0.66	320	6.65	30.10
5.	OS 7	7.37	0.67	330	6.67	31.90
6.	OS 8	7.29	0.89	440	7.53	26.70
7.	OS 9	7.55	0.95	470	4.80	27.10
8.	OS 10	7.45	0.45	220	2.85	26.00
9.	OS 15	7.43	1.43	710	9.10	28.30
10.	OS 16	7.81	0.81	400	6.72	28.40
11.	OS 17	7.89	0.41	200	6.66	27.90
12.	OS 20	6.84	0.57	280	2.08	27.50
13.	OS 21	6.38	0.60	300	2.17	31.80
14.	OS 22	7.35	0.66	330	2.25	29.10
15.	OS 26	6.68	0.65	320	1.79	28.80
16.	OS 28	6.40	0.89	440	2.24	27.50
17.	OS 30	6.78	0.48	240	5.35	25.50
18.	OS 34	7.42	1.10	550	1.38	28.20
19.	OS 36	6.94	0.78	390	1.93	27.90
20.	OS 37	7.49	0.80	390	5.74	26.60
21.	OS 38	6.53	0.77	380	4.32	30.00
22.	OS 40	6.96	0.96	480	1.96	27.70
23.	OS 42	6.40	0.78	380	3.81	28.90
24.	OS 44	6.32	1.08	540	2.24	27.50
25.	OS 45	6.77	0.45	220	1.79	27.80
26.	OS PLANT	7.83	0.29	110	6.21	30.00
BIS Limits (2012)	AL PL	6.5-8.5 NR	NS	500 2000	NS	-

Table 38 Mean concentration of elements obtained in the in-Groundwater samples during the pre-monsoon period 2024 from ICP-MS analysis with BIS limits of IS 10500:2012.

S.No.	Code	Li	B	Al	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Ag	Cd	Ba	Hg	Pb
1.	OS 1	0.007	0.012	0.004	0.002	0.001	0.006	BDL	0.001	0.001	0.006	ND	0.020	0.001	ND	0.010	ND	BDL
2.	OS 2	0.007	0.012	0.003	0.001	0.008	0.004	BDL	BDL	BDL	0.013	ND	0.022	ND	ND	0.016	ND	BDL
3.	OS 3	0.107	0.009	0.003	0.001	0.002	0.004	BDL	BDL	BDL	0.006	ND	0.031	ND	ND	0.050	ND	BDL
4.	OS-6	0.018	0.011	0.007	0.002	0.002	0.010	BDL	BDL	0.001	0.078	ND	0.024	ND	ND	0.009	ND	BDL
5.	OS 7	0.070	0.009	0.003	0.001	BDL	0.004	BDL	BDL	BDL	0.006	ND	0.065	0.001	ND	0.008	ND	BDL
6.	OS 8	0.018	0.009	0.002	0.001	0.001	0.003	BDL	BDL	0.001	0.073	ND	0.023	ND	ND	0.008	ND	BDL
7.	OS 9	0.025	0.006	0.002	0.001	BDL	0.003	BDL	BDL	BDL	0.020	ND	0.025	ND	ND	0.011	ND	BDL
8.	OS 10	0.010	0.009	0.003	0.001	0.006	0.004	BDL	BDL	BDL	0.007	ND	0.014	ND	ND	0.015	ND	BDL
9.	OS 15	0.014	0.009	0.002	0.001	BDL	0.003	BDL	BDL	BDL	0.003	ND	0.031	ND	ND	0.014	ND	BDL
10.	OS 16	0.010	0.007	0.002	0.001	BDL	0.003	BDL	BDL	0.001	0.004	ND	0.021	ND	ND	0.008	ND	BDL
11.	OS 17	0.015	0.008	0.003	0.001	BDL	0.004	BDL	BDL	BDL	0.004	ND	0.015	ND	ND	0.006	ND	BDL
12.	OS 20	0.010	0.009	0.003	0.001	0.001	0.004	BDL	BDL	BDL	0.009	ND	0.011	ND	ND	0.005	ND	BDL
13.	OS 21	0.052	0.010	0.003	0.001	0.028	0.004	0.001	0.001	BDL	0.019	ND	0.009	ND	ND	0.008	ND	BDL
14.	OS 22	0.007	0.009	0.002	0.001	0.006	0.004	BDL	BDL	BDL	0.006	ND	0.049	ND	ND	0.043	ND	BDL
15.	OS 26	0.008	0.008	0.002	0.001	0.020	0.004	BDL	0.001	BDL	0.151	ND	0.030	ND	ND	0.015	ND	BDL
16.	OS 28	0.068	0.007	0.007	0.001	0.007	0.003	BDL	0.003	BDL	0.029	ND	0.012	ND	ND	0.011	ND	BDL
17.	OS 30	0.022	0.008	0.002	0.001	BDL	0.004	BDL	0.001	0.002	0.005	ND	0.004	ND	ND	0.009	ND	BDL
18.	OS 34	0.017	0.012	0.002	0.001	0.002	0.004	BDL	BDL	0.001	0.004	ND	0.029	ND	ND	**0.075**	ND	BDL
19.	OS 36	0.007	0.009	0.002	0.001	0.007	0.004	BDL	BDL	0.001	0.006	ND	0.036	ND	ND	0.020	ND	BDL
20.	OS 37	0.008	0.009	0.003	0.001	BDL	0.005	BDL	BDL	0.001	0.006	ND	0.011	ND	ND	0.006	ND	BDL
21.	OS 38	0.010	0.010	0.002	0.001	0.006	0.004	BDL	BDL	BDL	0.005	ND	0.023	ND	ND	0.007	ND	BDL
22.	OS 40	0.010	0.010	0.002	0.001	0.003	0.003	BDL	BDL	BDL	0.021	ND	0.090	ND	ND	0.010	ND	BDL
23.	OS 42	0.020	0.009	0.002	0.001	0.002	0.003	BDL	0.001	0.002	0.015	ND	0.015	ND	ND	0.011	ND	BDL
24.	OS 44	0.033	0.010	0.002	0.001	0.005	0.004	BDL	BDL	BDL	0.005	ND	0.034	ND	ND	0.004	ND	BDL
25.	OS 45	2.693	0.034	0.004	0.001	**0.066**	0.005	0.001	0.007	0.010	0.024	ND	0.026	ND	ND	0.010	ND	BDL
26.	OS PLANT	0.219	0.011	0.055	0.001	0.006	0.003	BDL	0.001	0.001	0.013	ND	0.006	ND	ND	0.005	ND	BDL
BIS Limits	**AL**	**NS**	**0.5**	**0.03**	**0.05**	**0.1**	**0.3**	**NS**	**0.02**	**0.05**	**5**	**0.01**	**NS**	**0.1**	**0.003**	**0.7**	**0.001**	**0.01**
	PL		**1**	**0.2**	**NR**	**0.3**	**NR**		**NR**	**1.5**	**15**	**0.05**		**NR**	**NR**	**NR**	**NR**	**NR**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit. Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected as per BIS guidelines

Table 39 Mean concentration of major ions observed in groundwater samples during the pre-monsoon period 2024 and their comparison with BIS limits of IS 10500:2012

S.NO.	Code	Ca	K	Mg	Na	F	Cl	Br	NO_3	PO_4	SO_4	TH	TA
1.	OS 1	BDL	10.35	22.15	54.60	0.48	128.58	BDL	14.60	ND	107.54	357.2	104
2.	OS 2	48.00	40.05	25.80	38.70	0.44	89.48	BDL	35.47	ND	96.53	244.2	118
3.	OS 3	28.50	34.05	15.55	24.15	**2.34**	69.94	BDL	3.02	ND	26.41	353.5	172
4.	OS-6	8.70	48.60	23.45	40.50	2.08	34.51	BDL	1.53	ND	92.12	344.6	164
5.	OS 7	30.90	28.20	63.00	25.20	0.60	61.53	BDL	3.54	ND	74.42	428.4	135
6.	OS 8	8.10	46.80	89.85	38.55	1.01	105.74	BDL	18.92	ND	62.25	380.4	125
7.	OS 9	3.90	36.30	19.35	52.80	1.28	19.20	BDL	BDL	ND	22.40	132.2	128
8.	OS 10	4.95	15.90	30.45	12.30	0.65	148.18	BDL	BDL	ND	33.99	172.2	180
9.	OS 15	2.40	17.45	90.45	66.45	0.93	47.95	BDL	BDL	ND	20.86	164.2	176
10.	OS 16	1.95	55.80	44.70	38.70	0.69	34.03	BDL	BDL	ND	14.29	156.4	168
11.	OS 17	2.25	28.20	47.55	28.50	BDL	20.28	BDL	33.76	ND	18.12	184.4	246
12.	OS 20	0.90	18.90	86.25	17.85	0.65	33.70	BDL	BDL	ND	27.13	194.8	284
13.	OS 21	18.30	37.80	62.25	15.90	BDL	6.60	BDL	BDL	ND	5.64	428.2	134
14.	OS 22	6.15	20.70	97.65	46.65	BDL	10.81	BDL	BDL	ND	4.38	336.4	196
15.	OS 26	6.90	45.60	48.90	17.25	0.55	122.78	BDL	**83.89**	ND	42.53	284.2	324
16.	OS 28	4.50	8.10	70.30	33.15	0.39	16.25	BDL	33.04	ND	23.56	118.2	165
17.	OS 30	19.80	40.95	85.80	12.60	0.42	60.96	BDL	3.48	ND	17.92	298.8	108
18.	OS 34	4.95	29.25	32.25	13.80	0.63	104.77	BDL	1.19	ND	33.41	418.6	136
19.	OS 36	2.55	51.90	96.00	54.00	1.29	116.26	BDL	1.36	ND	6.90	208.4	158
20.	OS 37	2.10	80.00	38.25	36.15	0.36	4.21	BDL	BDL	ND	6.24	340.2	174
21.	OS 38	1.20	18.75	82.80	24.00	0.24	90.43	BDL	BDL	ND	35.57	238.8	218
22.	OS 40	5.10	70.85	57.00	12.30	BDL	62.61	BDL	**107.12**	ND	56.04	210.4	164
23.	OS 42	74.25	39.15	52.35	19.80	0.29	108.77	BDL	**153.04**	ND	88.01	288.2	162
24.	OS 44	3.45	37.95	78.75	35.55	**3.37**	20.63	BDL	3.37	ND	4.39	256.8	246
25.	OS 45	8.25	12.45	27.15	7.50	0.59	8.06	BDL	1.18	ND	41.18	408.8	124
26.	OS PLANT	BDL	10.35	22.15	54.60	0.48	128.58	BDL	14.60	ND	107.54	357.2	104
BIS	**AL**	**75**	**NS**	**30**	**NS**	**1**	**250**	**NS**	**45**	**NS**	**200**	**200**	**200**
Limits	**PL**	**200**		**100**		**1.5**	**1000**		**NR**		**400**	**600**	**600**

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit. Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected as per BIS guidelines.

3.13 *Post-monsoon 2024 groundwater quality monitoring*

Detailed sampling locations for post-monsoon 2024 groundwater quality analysis are listed in Table 33. Groundwater quality parameters measured from in-situ analysis during post-monsoon sampling is presented in Table 40. The pH value ranges between 6.15-8.20, with an average value of 7.07. The EC concentration ranged from 0.25 ms/cm to 1.23 ms/cm, with an average value of 0.77 ms/cm. TDS concentrations range from 120 mg/L to 610 mg/L with an average value of 373.91 mg/L. The concentration of dissolved oxygen (DO) ranged from 1.35 mg/L to 6.6.15 mg/L with a mean value of 3.48 mg/L. The temperature of groundwater in post-monsoon period ranged from 21.50°C to 45.10°C with an average value of 26.01°C.

Table 40 Mean values of pH, EC, TDS, DO, and temperature obtained in the groundwater samples from In-situ analysis during the post-monsoon period 2024.

S. No.	Code	pH	EC (mS)	TDS (ppm)	DO (mg/l)	T (°C)	
1	OS-1	7.18	0.80	390.00	5.20	26.20	
2	OS-2	7.04	1.07	530.00	2.20	27.20	
3	OS-3	6.75	0.72	350.00	1.35	45.10	
4	OS-7	7.51	0.59	290.00	6.15	28.20	
5	OS-8	7.23	0.98	490.00	2.25	24.40	
6	OS-9	7.50	1.11	550.00	4.12	23.30	
7	OS-10	7.20	0.86	420.00	1.80	24.90	
8	OS-15	8.20	0.52	260.00	4.28	24.00	
9	OS-16	7.48	1.23	610.00	4.26	22.80	
10	OS-17	7.91	0.38	190.00	5.20	22.30	
11	OS-20	7.05	0.54	270.00	3.02	25.10	
12	OS-21	6.90	0.25	120.00	5.04	21.50	
13	OS-22	7.00	0.73	360.00	2.54	27.80	
14	OS-25	7.30	0.84	410.00	4.65	23.90	
15	OS-28	6.18	0.80	400.00	2.40	26.40	
16	OS-30	6.16	0.62	300.00	5.16	23.50	
17	OS-34	7.24	1.02	500.00	4.02	25.50	
18	OS-36	7.13	0.86	420.00	2.10	25.60	
19	OS-38	7.09	0.71	350.00	3.40	27.80	
20	OS-40	7.33	0.87	330.00	2.10	27.10	
21	OS-42	6.15	0.72	350.00	3.70	25.70	
22	OS-44	6.46	1.08	500.00	2.95	23.90	
23	OS-45	6.56	0.43	210.00	2.10	26.10	
BIS Limits	AL	6.5-8.5	NS	500	NS	-	-
	PL	NR		2000			

AL: acceptable limit; PL: permissible limit in the absence of alternate source; NR: no relaxation

Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected.

The concentration of heavy metals and other elements in the groundwater samples were measured through ICP-MS/MP-AES analysis listed in Table 35. Lithium (Li) had a mean concentration of 0.038 ppm, with a minimum of BDL and a maximum of 0.100 ppm. Aluminum (Al) exhibited a mean concentration of 0.021 ppm, with values ranging from BDL ppm to 0.093 ppm. Chromium (Cr) had a mean concentration of 0.007ppm, with a minimum of 0.004 ppm and a maximum of 0.015 ppm. Manganese (Mn) showed a mean concentration of 0.177 ppm, with a

minimum of BDL ppm and a maximum of 0.956 ppm. Iron (Fe) showed the negligible concentration. Cobalt (Co) had a mean concentration of 0.003 ppm, with a minimum of BDL ppm and a maximum of 0.0022 ppm. Nickel (Ni) exhibited a mean concentration of 0.001 ppm, with a minimum of BDL ppm and a maximum of 0.006 ppm. Copper (Cu) showed a mean concentration of 0.001 ppm, with a maximum of 0.019 ppm. Zinc (Zn) had a mean concentration of 0.197 ppm, with a minimum of BDL ppm and a maximum of 1.412 ppm. Arsenic (As) had showed the negligible concentration. Strontium (Sr) exhibited a mean concentration of 0.673 ppm, with a minimum of 0.152 ppm and a maximum of 2.621 ppm. Cadmium (Cd) had showed the negligible concentration. Barium (Ba) displayed a mean concentration of 0.211 ppm, with a minimum of 0.011 ppm and a maximum of 0.537 ppm. The concentration of Mercury (Hg) ranged from ND to 0.013 with a 0.001 mean value. Pb had showed the negligible concentration.

For measuring the major ion concentration groundwater samples were analysed using ion chromatography (IC) for Cl, SO_4^{2-}, F, and NO_3^-. The results of post-monsoon period and their comparison with BIS limits are listed in Table 36. The Ca concentration ranged from 28.68 ppm to 117.63 ppm, with an average value of 69.47 ppm. The K concentration ranged from BDL ppm to 47.27 ppm, with an average value of 9.93 ppm. Likewise, the Mg concentration ranged from 0.09 ppm to 58.21 ppm, with an average value of 18.95 ppm. Further, the Na content ranged from 8.89 to 125.89 ppm, with an average of 41.656 ppm. The NO_3 content ranged from 0.12 ppm to 98.34 ppm, with an average of 14.08 ppm. The total alkalinity (TA) ranged from 110 to 220 ppm, with an average of 152.48 ppm. The chloride concentration ranged from 10.20 to 88.80 ppm, with an average of 39.85 ppm. Total hardness (TH) content in the present study area ranged from 92.11 ppm to 399 ppm, with an average of 239.43 ppm. Sulphate concentrations ranged from 5.40 ppm to 88.28 ppm, with an average of 28.49 ppm. Fluoride (F) concentrations ranged from BDL ppm to 1.84 ppm, with an average of 0.56 ppm. Bromide (Br) had showed the negligible concentration.

Table 41 Mean concentration of elements obtained in the water samples during the post-monsoon period 2024 from ICP-MS analysis with BIS limits of IS 10500:2012.

S.No.	Code	Li	Al	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Ag	Cd	Ba	Hg	Pb
1	OS-1	0.100	BDL	0.007	BDL	BDL	BDL	0.000	BDL	0.004	BDL	0.326	BDL	BDL	0.145	0.013	BDL
2	OS-2	0.100	0.057	0.015	0.206	BDL	BDL	0.002	BDL	0.280	BDL	0.649	BDL	BDL	0.269	0.011	BDL
3	OS-3	0.100	0.040	0.006	0.042	BDL	BDL	0.002	BDL	BDL	BDL	0.697	BDL	BDL	0.537	ND	BDL
4	OS-7	0.100	0.048	0.008	0.354	BDL	BDL	BDL	BDL	BDL	BDL	1.651	BDL	BDL	0.131	ND	BDL
5	OS-8	0.050	0.091	0.006	0.066	BDL	BDL	0.002	BDL	1.097	BDL	0.425	BDL	BDL	0.127	ND	BDL
6	OS-9	BDL	0.032	0.009	0.014	BDL	BDL	BDL	BDL	0.013	BDL	0.494	BDL	BDL	0.176	ND	BDL
7	OS-10	BDL	0.093	0.008	0.956	BDL	BDL	0.001	BDL	0.024	BDL	0.458	BDL	BDL	0.492	ND	BDL
8	OS-15	BDL	0.042	0.007	0.061	BDL	BDL	BDL	BDL	0.027	BDL	0.416	BDL	BDL	0.099	ND	BDL
9	OS-16	BDL	0.020	0.006	0.032	BDL	BDL	BDL	BDL	0.001	BDL	0.646	BDL	BDL	0.236	ND	BDL
10	OS-17	BDL	BDL	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.220	BDL	BDL	0.033	ND	BDL
11	OS-18	0.100	BDL	0.008	0.035	BDL	BDL	BDL	BDL	0.152	BDL	0.296	BDL	BDL	0.059	ND	BDL
12	OS-20	0.050	0.026	0.007	0.636	BDL	0.019	0.005	BDL	0.096	BDL	0.169	BDL	BDL	0.144	ND	BDL
13	OS-21	0.030	0.011	0.004	0.319	BDL	0.003	0.004	BDL	0.081	BDL	0.152	BDL	BDL	0.109	ND	BDL
14	OS-22	BDL	0.016	0.006	0.248	BDL	BDL	BDL	BDL	0.051	BDL	1.057	BDL	BDL	0.416	ND	BDL
15	OS-25	BDL	BDL	0.006	0.003	BDL	BDL	BDL	BDL	0.034	BDL	0.277	BDL	BDL	0.099	ND	BDL
16	OS-28	0.077	0.019	0.006	0.181	BDL	0.022	0.006	BDL	0.665	BDL	0.312	BDL	BDL	0.200	ND	BDL
17	OS-30	0.062	BDL	0.007	0.147	BDL	0.007	0.004	BDL	0.535	BDL	0.190	BDL	BDL	0.455	ND	BDL
18	OS-34	BDL	0.011	0.006	0.099	BDL	BDL	BDL	BDL	1.412	BDL	2.405	BDL	BDL	0.418	ND	BDL
19	OS-36	BDL	BDL	0.007	0.106	BDL	BDL	BDL	BDL	0.017	BDL	0.833	BDL	BDL	0.381	ND	BDL
20	OS-38	0.015	BDL	0.006	0.228	BDL	BDL	BDL	BDL	BDL	BDL	0.698	BDL	BDL	0.093	ND	BDL
21	Os-40	BDL	BDL	0.005	0.101	BDL	BDL	BDL	BDL	0.042	BDL	2.621	BDL	BDL	0.215	ND	BDL
22	OS-42	0.062	BDL	0.006	0.043	BDL	0.008	0.003	0.019	0.192	BDL	0.301	BDL	BDL	0.191	ND	BDL
23	Os-44	0.046	BDL	0.007	0.338	BDL	BDL	BDL	BDL	BDL	BDL	0.656	BDL	BDL	0.031	ND	BDL
24	OS-45	0.015	BDL	0.006	0.033	BDL	BDL	BDL	BDL	BDL	BDL	0.199	BDL	BDL	0.011	ND	BDL
BIS Limits	AL	NS	0.03	0.05	0.1	0.3	NS	0.02	0.05	5	0.01	NS	0.1	0.003	0.7	0.001	0.01
	PL		0.2	NR	0.3	NR		NR	1.5	15	0.05		NR	NR	NR	NR	NR

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit. Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected as per BIS guidelines.

Table 42 Mean concentration of major ions observed in groundwater post monsoon 2024 samples and their comparison with BIS limits of IS 10500:2012

S.NO.	Code	Ca	K	Mg	Na	NH_4	Li	F	Cl	Br	NO_3	PO_4	SO_4	TH	TA
1	OS-1	80.61	9.52	19.50	48.05	0.24	BDL	0.22	88.27	BDL	28.20	ND	88.28	292.1	112.0
2	OS-2	107.26	15.24	35.04	40.67	0.86	0.16	0.18	68.24	BDL	66.28	ND	54.48	321.1	120.0
3	OS-3	53.33	22.46	12.88	27.59	0.91	0.16	1.84	58.00	BDL	2.08	ND	34.70	232.1	220.0
4	OS-7	58.51	30.29	16.03	27.13	0.33	0.14	0.82	38.28	BDL	2.42	ND	62.23	322.8	184.0
5	OS-8	78.04	18.58	20.06	65.43	BDL	0.20	0.92	42.40	BDL	4.48	ND	46.80	320.0	142.0
6	OS-9	106.15	1.47	31.03	60.66	BDL	BDL	1.11	72.20	BDL	8.18	ND	32.28	128.8	110.0
7	OS-10	68.09	8.51	22.13	77.54	4.29	0.16	0.45	10.20	BDL	1.30	ND	22.24	162.4	120.0
8	OS-15	38.46	0.58	21.37	42.30	BDL	BDL	0.04	22.02	BDL	0.12	ND	18.14	182.2	144.0
9	OS-16	72.20	3.30	34.27	85.20	BDL	BDL	0.43	24.00	BDL	0.24	ND	12.28	110.4	115.0
10	OS-17	49.13	0.00	15.24	15.77	0.15	BDL	BDL	16.20	BDL	0.50	ND	12.12	398.0	122.0
11	OS-20	59.19	0.62	7.67	10.62	0.34	0.14	0.45	11.20	BDL	2.84	ND	22.80	218.5	178.0
12	OS-21	28.89	0.00	0.20	8.89	BDL	BDL	0.62	38.20	BDL	0.94	ND	36.20	282.1	214.0
13	OS-22	90.15	7.04	35.57	18.48	0.19	BDL	0.02	11.20	BDL	0.82	ND	16.22	92.1	154.0
14	OS-25	69.49	1.57	20.92	45.61	BDL	0.08	0.03	23.67	BDL	1.88	ND	22.36	260.0	120.0
15	OS-28	85.21	19.37	0.25	30.72	0.01	BDL	0.82	88.80	BDL	26.80	ND	13.40	399.0	122.0
16	OS-30	28.68	28.12	10.76	36.68	BDL	BDL	0.42	32.00	BDL	2.60	ND	20.60	162.0	124.0
17	OS-34	52.08	7.12	58.21	83.05	2.75	BDL	1.40	24.22	BDL	1.40	ND	18.20	321.0	184.0
18	OS-36	105.99	3.47	37.89	34.21	0.43	BDL	0.54	32.80	BDL	1.70	ND	5.40	210.0	190.0
19	OS-38	81.12	0.44	17.54	12.03	BDL	BDL	0.21	13.50	BDL	0.48	ND	12.00	144.3	128.0
20	Os-40	63.78	1.02	0.09	125.89	0.57	BDL	0.64	44.20	BDL	36.22	ND	36.02	210.0	190.0
21	OS-42	42.19	47.27	5.80	25.40	BDL	BDL	0.14	88.77	BDL	98.34	ND	48.00	270.0	144.0
22	Os-44	117.63	1.39	0.21	24.45	BDL	BDL	1.37	56.10	BDL	32.80	ND	6.18	242.0	160.0
23	OS-45	61.75	1.12	13.19	11.47	BDL	0.22	0.28	12.00	BDL	3.24	ND	14.24	226.0	210.0
BIS	AL	75	NS	30	NS			1	250	NS	45	NS	200	200	200
Limits	PL	200		100				1.5	1000		NR		400	600	600

Notations: NS-Not specified; NR-No relaxation; ND- Not Detected; AL-Acceptable Limit; PL- Permissible Limit; BDL-Below detection limit. Note: It is recommended that the acceptable limit (AL) is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable but still may be tolerated in the absence of an alternative source but up to the limits indicated under, 'permissible limit (PL) in the absence of alternative source', above which the source will have to be rejected as per BIS guidelines.

3.14 *Analysis of results based on pre-and post-monsoon groundwater quality data sets of 2023 & 2024*

The post-monsoon 2024 groundwater quality analysis indicates that the groundwater in the study area largely adheres to permissible limits, with some notable variations. The pH ranged from 6.15 to 8.20, averaging 7.07, indicating neutral to slightly alkaline water. Electrical conductivity (EC) varied between 0.25 ms/cm and 1.23 ms/cm, averaging 0.77 ms/cm, and TDS ranged from 120 mg/L to 610 mg/L, with an average of 373.91 mg/L, reflecting moderate mineralization. Dissolved oxygen (DO) levels varied from 1.35 mg/L to 6.15 mg/L, averaging 3.48 mg/L, while groundwater temperatures ranged between 21.50°C and 45.10°C, with an average of 26.01°C. Heavy metals like Mn (0.177 ppm average, maximum 0.956 ppm), Zn (0.197 ppm average, maximum 1.412 ppm), and Sr (0.673 ppm average, maximum 2.621 ppm) displayed higher variability, suggesting localized sources of contamination, whereas Fe, As, Cd, and Pb showed negligible concentrations. Major ions such as Ca (28.68–117.63 ppm, average 69.47 ppm), Mg (0.09–58.21 ppm, average 18.95 ppm), and Na (8.89–125.89 ppm, average 41.65 ppm) were within acceptable limits, but NO_3 levels ranged from 0.12 ppm to 98.34 ppm, averaging 14.08 ppm, indicating significant variability within the study area. Total hardness (92.11–399 ppm, average 239.43 ppm) and alkalinity (110–220 ppm, average 152.48 ppm) indicate moderately hard water. While the overall water quality aligns with BIS standards.

Assessing groundwater quality based on physio-chemical and heavy metal parameters is a crucial aspect of understanding the suitability of groundwater for various purposes. In general, high concentration of Mn and Fe in handpump water samples. The concentration of heavy metals in the pre-monsoon period was analysed, and it was observed that some trace metals, particularly Al, had slightly higher concentrations when compared to BIS (2012) limits for drinking water. About 15% of the groundwater samples have found elevated NO_3 concentration, though

it is relatively low in terms of analysed samples from previous years. However, fluoride concentration is marginally high in about 20% of the sample collected in the year 2023. Fluoride bearing minerals are the primary reason for the fluoride contamination in groundwater. About 40% of the samples have high hardness of the water.

The pre- and post-monsoon groundwater quality data reveals small variations in physico-chemical and trace elements. Dissolved Oxygen (DO) concentrations in both periods exhibit comparable mean values, but the post-monsoon period demonstrates a slightly broader range, indicative of potential fluctuations in oxygenation levels. Total Dissolved Solids (TDS) concentrations remain relatively consistent between the two periods, with minor variations. Electrical Conductivity (EC) values exhibit marginal differences, suggesting a stable overall groundwater conductivity. The pH levels show a modest increase during the post-monsoon period, indicating a trend towards a more alkaline environment. Temperature ranges remain similar, with only a slight decrease in the post-monsoon average temperature. Moreover, in the pre-monsoon period, Lithium (Li) had a mean concentration of 0.002 ppm, whereas in the post-monsoon period, it increased to 0.015 ppm. Boron (B) also exhibited an increase from a mean concentration of 0.02 ppm in the pre-monsoon to 0.03 ppm in the post-monsoon period. Aluminum (Al) concentrations decreased from a mean of 1.3 ppm to 0.12 ppm, indicating a potential dilution effect during the post-monsoon season. Chromium (Cr) and Nickel (Ni) concentrations decreased slightly, while Manganese (Mn) showed a substantial decrease from a mean of 0.17 ppm to 0.86 ppm. Iron (Fe) concentrations also decreased significantly from 1.1 ppm to 0.52 ppm. Zinc (Zn) concentrations showed a decrease from 1.32 ppm to 0.46 ppm. Copper (Cu) and Cadmium (Cd) concentrations decreased, while Barium (Ba) concentrations increased in the post-monsoon period. Arsenic (As) concentrations remained low and fairly consistent in both periods. Strontium (Sr) concentrations increased slightly, and Mercury (Hg) concentrations remained negligible. Overall, these variations indicate dynamic seasonal influences on trace element concentrations in the groundwater, likely

attributed to dilution, precipitation, and geochemical processes associated with monsoonal effects.

The comparison of pre-monsoon and post-monsoon groundwater datasets with respect to major ions, along with their conformity to Bureau of Indian Standards (BIS) limits, provides insights into the seasonal variations in groundwater quality. In the pre-monsoon period, the Ca concentration ranged from 55.2 ppm to 395.6 ppm, averaging 176.3 ppm, whereas in the post-monsoon period, it ranged from 22.2 ppm to 113.6 ppm, with an average of 72.5 ppm. The K concentration showed a decrease from 0.4 ppm to 49.1 ppm in the pre-monsoon to 0.15 ppm to 23.1 ppm in the post-monsoon, indicating a seasonal fluctuation. Similar trends were observed for Mg, Na, NO_3, total alkalinity (TA), chloride, total hardness (TH), sulfate, fluoride (F), and bromide concentrations, with values generally decreasing in the post-monsoon period. Notably, in both periods, the majority of the parameters fell within the BIS limits, ensuring compliance with the BIS standards. The post-monsoon period exhibited lower concentrations of certain elements, potentially attributed to dilution effects and enhanced groundwater recharge during the monsoon season.

3.15 Coordinates of tube wells of Plant & Township area & their locations on Geo reference maps.

Coordinating and mapping tube wells in both plant and township areas is a crucial step in managing water resources effectively and ensuring access to clean, reliable water sources for needs. A portable GPS system was used to read the coordinates of the tubewells/borewells of the Plant & Township area. These geographic coordinates used to precisely locate each wells and integrate this data into GIS platform (Table 43). During the site visit, 9 bore wells inside the township area and 3 bore wells inside plant area were identified. One rainwater harvesting pit was also identified in the township area. The location is marked on a georeferenced topographic map as shown in Figure 22. Photographs of wells of plant and township area are provided in Appendix C.

Table 43. The geographical location of wells inside the plant and township area.

Site code	Site description	Latitude	Longitude
BW-1	Inside Township, Behind Sanjeevni hospital	23.849316	85.021652
BW-2	Inside CISF Barrack	23.849174	85.021767
BW-3	CISF Quarter Guard	23.847071	85.022026
BW-4	Near BW 3	23.847677	85.02298
BW-5	Inside STP Plant Township	23.847736	85.02285
BW-6	Behind Atulyam Guest house	23.845495	85.024483
BW-7	In front of B-1, township	23.845819	85.034554
BW-8	Pump House, township	23.846966	85.022247
BW-9	Near Fire drill tower, inside plant	23.845867	85.024483
BW-10	Behind office, inside plant	23.847681	85.0252
BW-11	In front of Vishveshwariya office	23.847904	85.016716
BW-12	Near Annapurna Mess, Township	23.845961	85.027405
RW-1	Near STP Inside Township (Three pits side by side)	23.847424	85.023727

Notations: BW-bore well, RW-rainwater harvesting

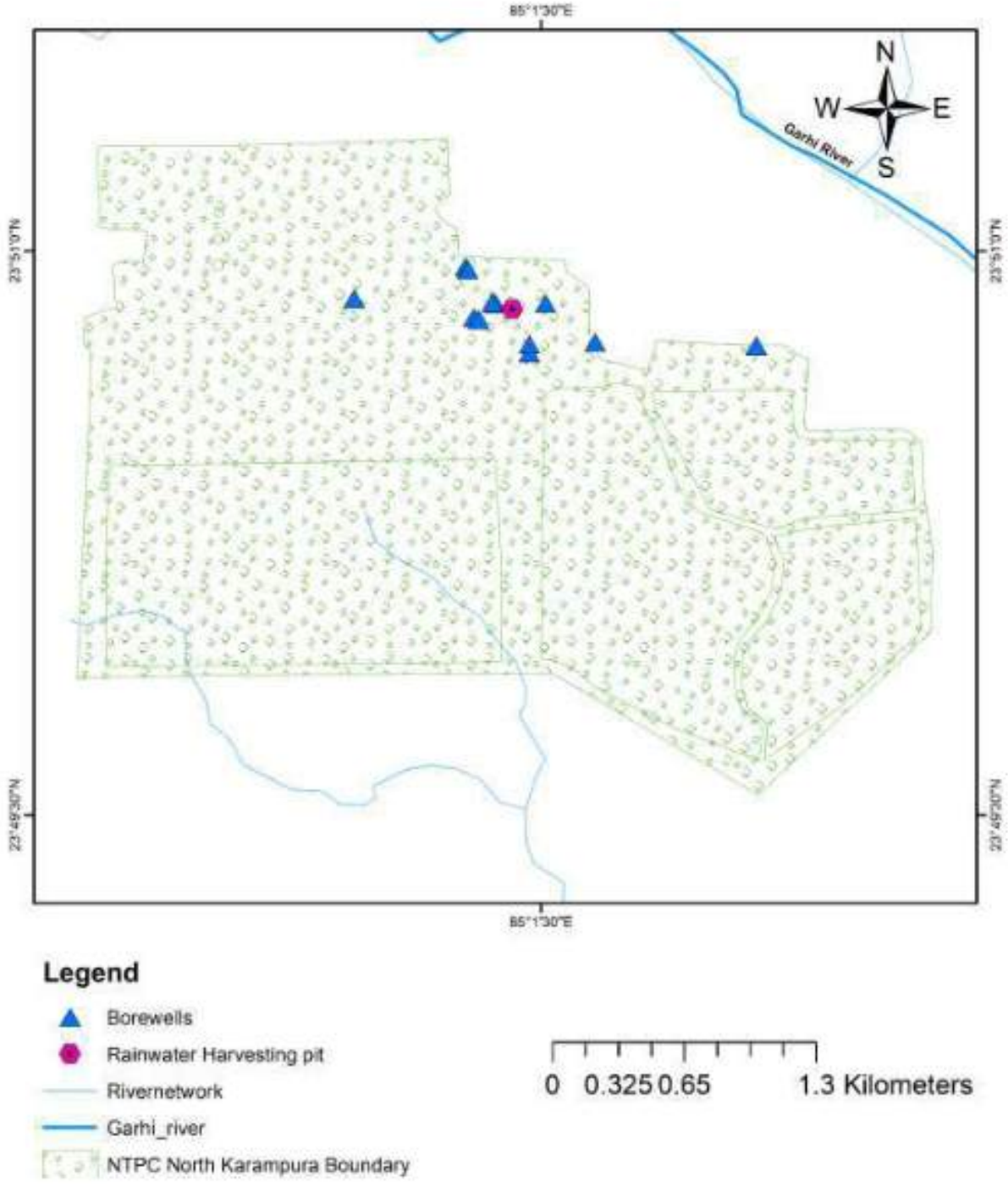


Figure 23. Georeferenced map showing the location of tube wells inside plant and township area of NTPC Solapur.

3.16 Pump and recovery test analysis

The pumping test is a method to determine the characteristic of the water-bearing formation. The commonly used pumping test is the constant-rate pumping in which the control well is pumped at a constant rate, and pumping water-level response (drawdown) is measured in one or more surrounding observation wells. The data obtained from the pumping test are used to estimate the hydraulic properties of the aquifer. The pumping test was conducted, followed by the recovery test in the study area. The recovery test is used as an independent check for transmissivity obtained during the pumping test, as shown in Figure 24 and Figure 25. The straight-line plot of drawdown (s) versus time (t) is plotted on the semi-logarithmic paper for the observed data, showing transmissivity (T) of the formation as 70.76 m^2/day and storativity as 8.84×10^{-5}. The recovery test of the data shows a comparable T value. It is to be noted that the hydrogeolocal parameters obtained in these tests are related to the aquifer media. The properties of the vadose zone and other confining layers of the subsurface control the movement of surface water to the underlying groundwater resources and its subsequent movement predominantly in the down-gradient side. Additional infiltration tests are proposed here to investigate the properties of the unsaturated zone.

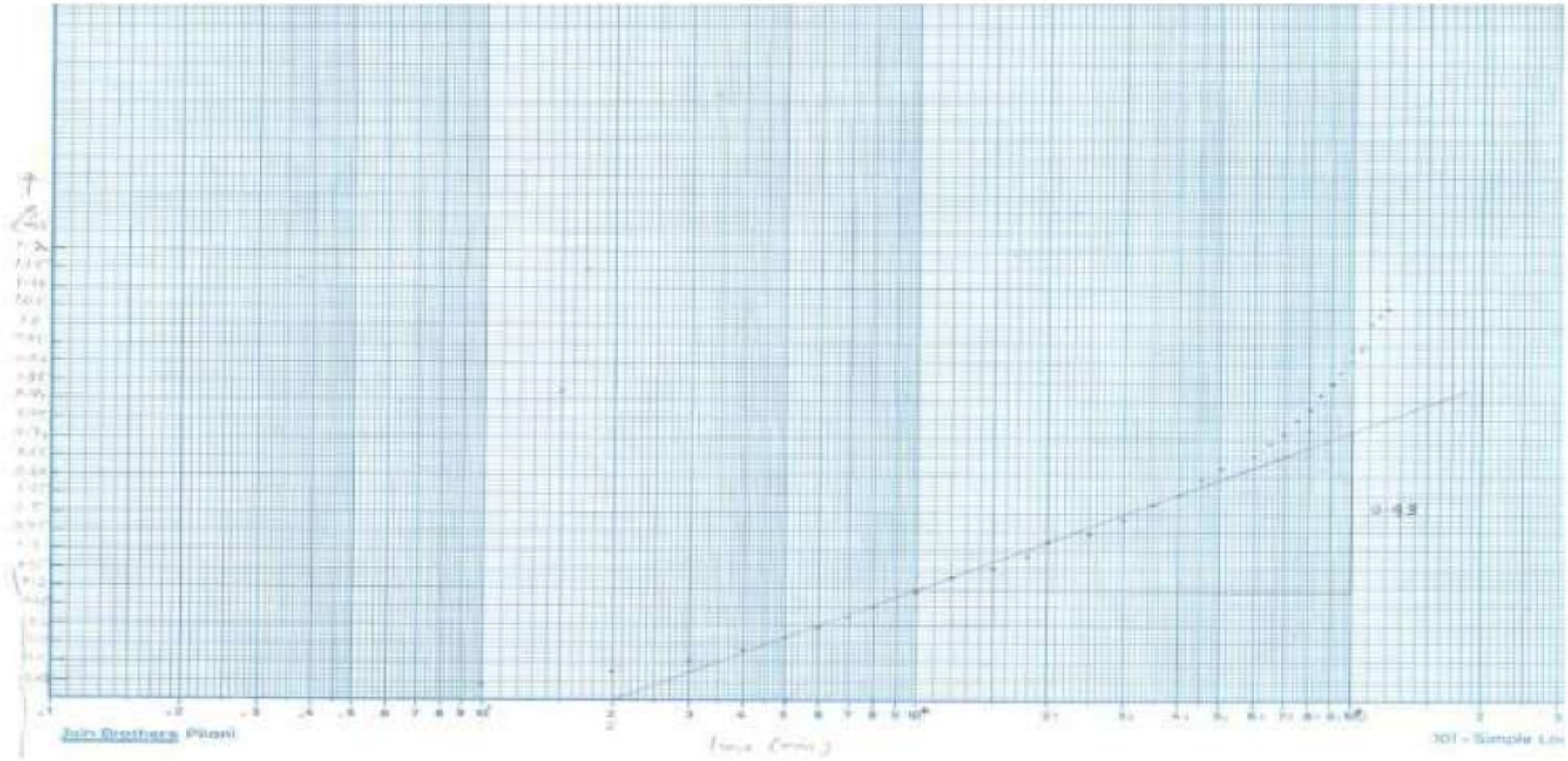


Figure 24. Pumping test data for determination of aquifer parameters

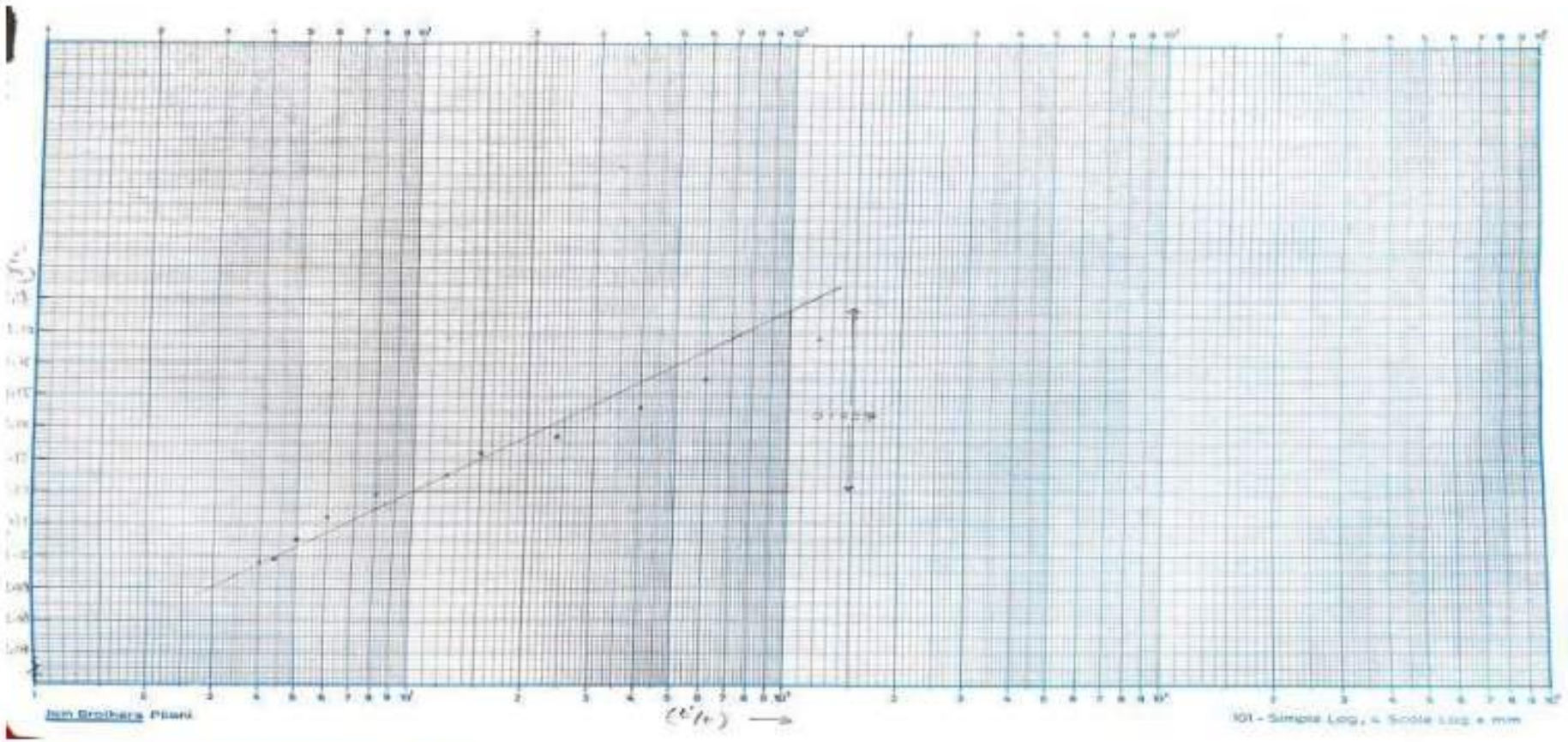


Figure 25. Recovery test data plot.

Another Pump and Recovery test was conducted in Garilong village near OS-9 sampling site in Tandwa. Pump and recovery test were analysis during the session pre-monsoon 2024. The pumping test was conducted, followed by the recovery test in the study area. The recovery test is used as an independent check for transmissivity obtained during the pumping test, as shown in Figure 26 and Figure 27. The straight-line plot of drawdown (s) versus time (t) is plotted on the semi-logarithmic paper for the observed data, showing transmissivity (T) of the formation as 240.60 m^2/day and storativity as 2.32151x 10^{-5}. The recovery test of the data shows a comparable T value. It is to be noted that the hydrogeolocal parameters obtained in these tests are related to the aquifer media.

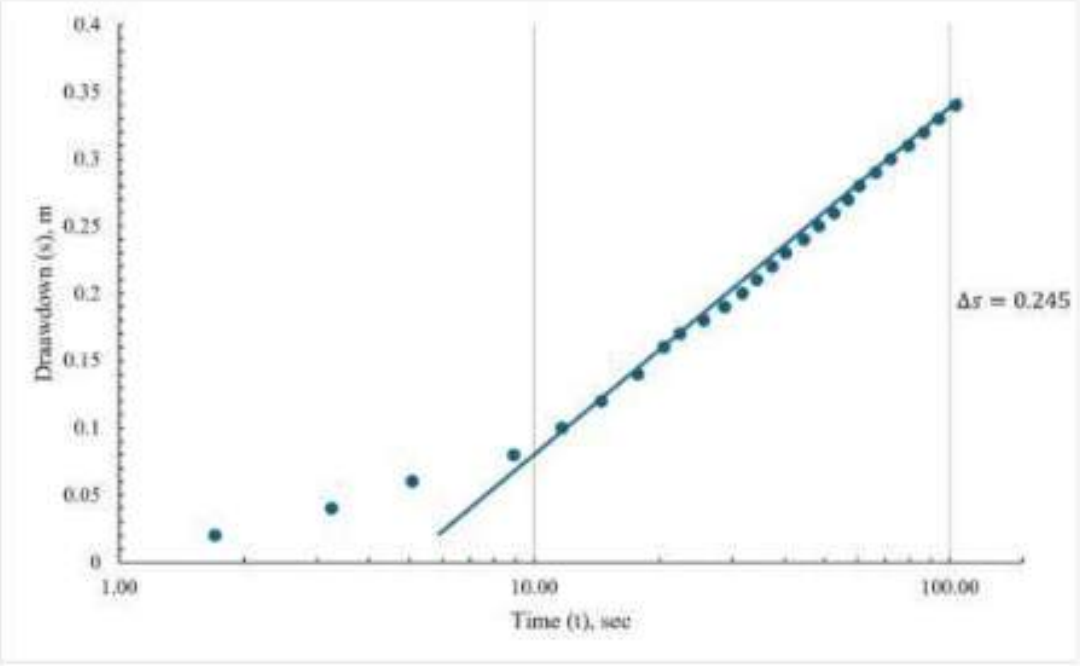


Figure 26 Pumping test data for determination of aquifer parameters

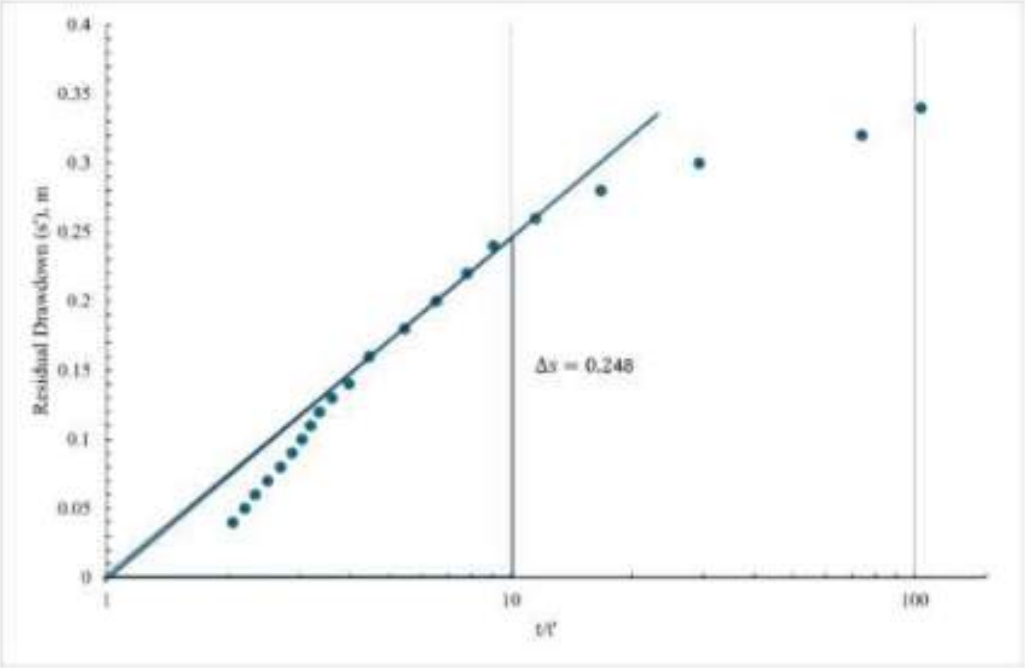


Figure 27 Recovery test data plot

3.17 *Infiltration Studies*

Infiltration tests at identified locations were conducted during pre-monsoon season. During the pre-monsoon 2023 visit, infiltration experiments were conducted at 6 locations in and around the ash dyke listed in Table 44. The geographical locations of the sites of infiltration experiments are shown in Figure 28. Photographs taken during the pre-monsoon infiltration measurement are presented in Appendix B. A mini disc infiltrometer (an advanced instrument for measuring infiltration rate) was used to measure the rate of infiltration. Measured hydraulic conductivity at selected locations is presented in Table 45 showing the high infiltration capacity of the area. A lower hydraulic conductivity was observed near the ash pond compared to other sites apparently due to the compaction of heavy vehicle movement. A higher value of hydraulic conductivity was observed Behind the Koyal Karo Guest house due to sandy clay soil and well-maintained grass cover.

Table 44 Measured hydraulic conductivity (pre-monsoon 2023)

Site code	Site description	Latitude	Longitude	Hydraulic Conductivity (cm/s)
TIF 1	Ash Dyke 1	23.84007	85.01144	0.001
TIF 2	Ash Dyke 2	23.83769	85.01565	0.001
TIF 3	Ash Dyke 3	23.840133	85.015085	0.002
TIF 4	Ash Dyke Boundary	23.841325	85.020125	0.002
TIF 5	Behind Koyal Karo Guest house	23.847916	85.026209	0.002
TIF 6	Near Umang sports ground	23.84857	85.023816	0.001

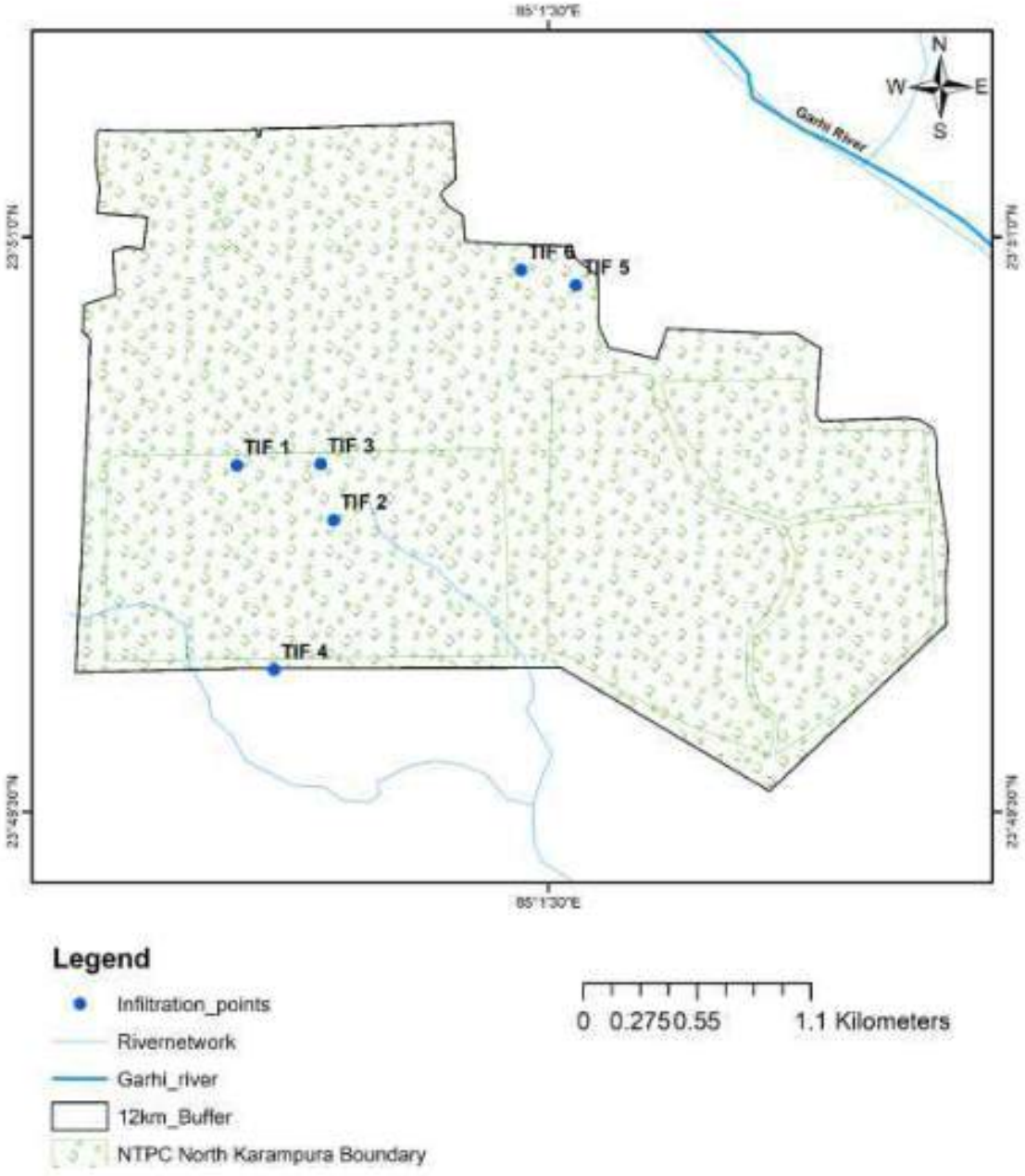


Figure 28. Map showing the location of infiltration measurement points during pre-monsoon season 2023

A mini disc infiltrometer (an advanced instrument for measuring infiltration rate) was used to measure the rate of infiltration in post monsoon period as well. Measured hydraulic conductivity at selected locations is presented in Table 44 showing the high infiltration capacity of the area. A lower hydraulic conductivity was observed near the ash pond areas as observed in pre monsoon period as well. This is due to the compaction of soil because of heavy vehicle movement. A higher value of

hydraulic conductivity was observed near the water storage reservoir (IF-6) during the post monsoon period. Map showing the location of infiltration measurement points during pre-monsoon season 2023 is shown in Figure 29.

Table 45 Measured hydraulic conductivity (post-monsoon 2023)

Site code	Latitude	Longitude	Hydraulic Conductivity(cm/s)
IF-1	23.83889	85.00935	0.0003
IF-2	23.83537	85.00668	0.0004
IF-3	23.83239	85.00571	0.0006
IF-4	23.83195	85.01874	0.0005
IF-5	23.83193	85.01613	0.0003
IF-6	23.84431	85.02919	0.0005

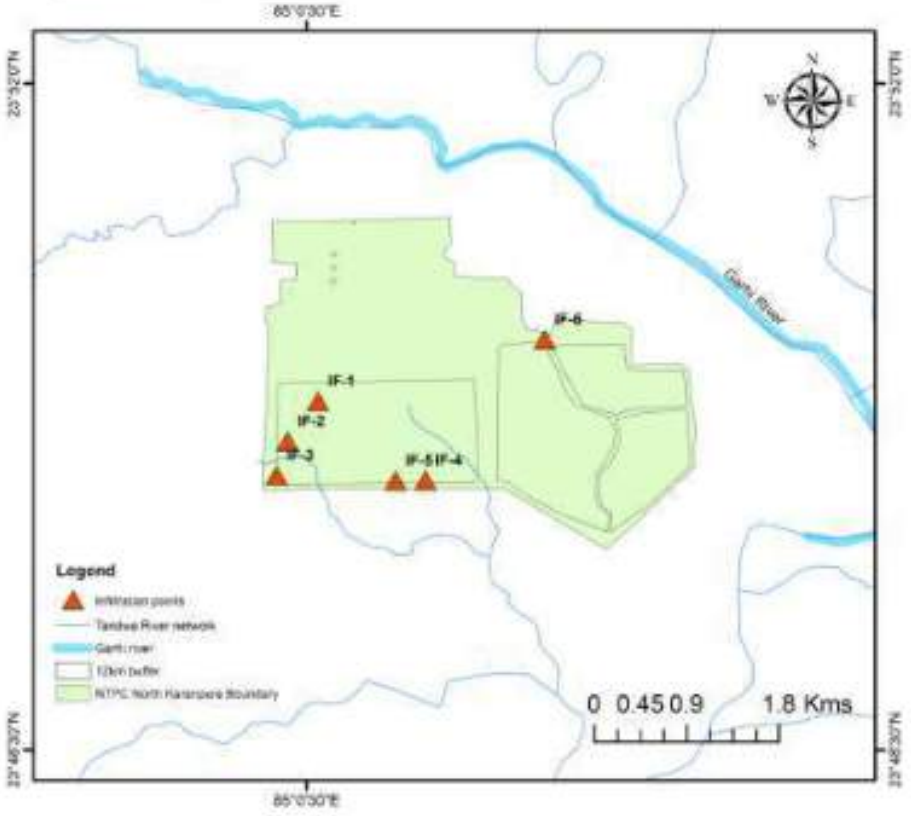


Figure 29. Map showing the location of infiltration measurement points during post-monsoon season 2023

The measured hydraulic conductivity at selected locations is presented in Table 44 showing the high infiltration capacity of the area. A lower hydraulic conductivity was observed near the ash pond areas as observed in post monsoon period as well. This is due to the compaction of soil caused by heavy vehicle movement. A higher value of hydraulic conductivity was observed at Ash Dyke 1 (TIF-1) during the post-monsoon period. A lower hydraulic conductivity was observed Behind Koyal Karo Guest House compared to other sites, apparently due to the compaction of heavy vehicle movement. Map showing the location of infiltration measurement points during post-monsoon season of 2024 is shown in Figure 29.

Table 46 Measured hydraulic conductivity (post-monsoon 2024)

Site code	Site description	Latitude	Longitude	Hydraulic Conductivity (cm/s)
TIF-1	Ash Dyke 1	23.83944	85.01097	0.0030
TIF-2	Ash Dyke 2	23.83821	85.01547	0.0021
TIF-3	Ash Dyke 3	23.8325	85.016269	0.0020
TIF-4	Ash Dyke Boundary	23.83903	85.021375	0.0016
TIF-5	Behind Koyal Karo Guest house	23.83149	85.005124	0.0018

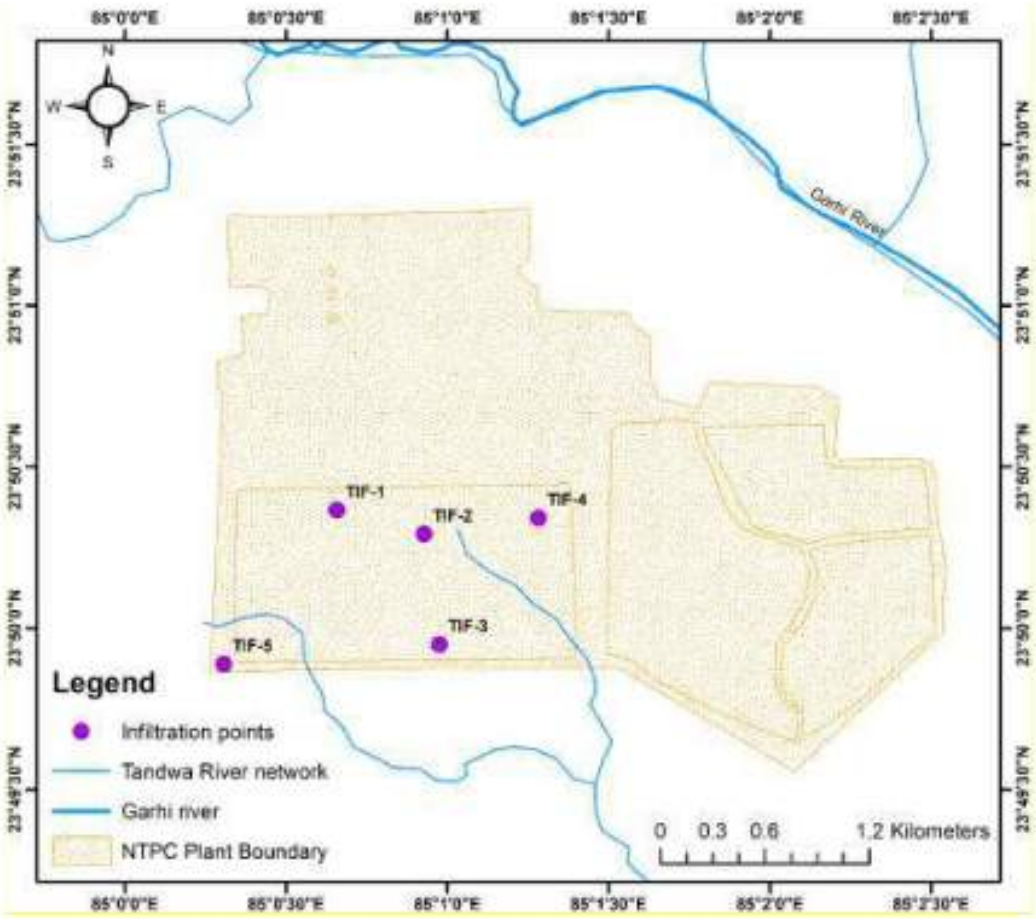


Figure 30 Map showing the location of infiltration measurement points during post-monsoon season 2024

3.18 Suggested locations for installation of piezometers nearby ash pond

To strategically monitor groundwater levels near ash pond where the predominant groundwater flow direction is south and southeast, the installation of piezometers can be planned. Firstly, consider installing piezometers downstream of the pond in the south and southeast directions to observe groundwater level variations as water infiltrates from the pond into the subsurface. Piezometers at different depths can capture variations in groundwater levels effectively. Additionally, positioning of the piezometers at

the outflow points of the ash pond should be done to monitor groundwater. The well-planned piezometer network will facilitate regular monitoring, allowing for a better grasp of groundwater behaviour, and support effective groundwater resource management and environmental protection efforts.

3.19 *Recommendation/suggestions to NTPC for taking site specific mitigation measures.*

The groundwater quality data, encompassing a range of physicochemical parameters, heavy metals, major ions, and their comparison with regulatory standards, serves as a critical foundation for devising effective mitigation strategies to control groundwater pollution. Variations in parameters like dissolved oxygen, temperature, TDS, EC, and pH hint at the complex interplay of natural geological factors affecting water quality. The elevated concentrations of some elements necessitating source control and tailored treatment approaches. Proposed mitigation measures include source identification, strict regulation of pollution sources, water treatment technologies, land use planning, promotion of sustainable agricultural practices, well-established monitoring networks, and public awareness campaigns. In conclusion, this groundwater data analysis underscores the importance of a comprehensive and targeted approach to safeguard this invaluable resource and protect the environment.

4 Summary and Conclusion

Groundwater and surface water samples were collected from different sources such as hand pumps, tube wells, open wells, ponds, reservoirs, rivers and ash dyke etc. Groundwater table depth was also measured in existing open wells to prepare groundwater table and flow direction maps. Some water quality parameters were determined using in-situ probes, and major cations, anions and heavy metals were determined using laboratory facilities available at IIT Roorkee. The following conclusions are made based on the analysis of 1st & 2nd year of sampling (pre and post-monsoon 2023-2024 data) periods.

1. The surface water levels during the pre-monsoon and post-monsoon periods were nearly identical to those recorded in the years 2023–2024.
2. The predominant direction of groundwater flow remains consistent with the pre and post monsoon season of 2023-2024, primarily oriented towards the south and southeast. This observation highlights the stability of groundwater dynamics, with no significant deviations from the established flow patterns are found.
3. The results of the pumping and recovery tests conducted in the study area provide insights into the hydrogeological characteristics of the aquifer system. The transmissivity and storativity values derived from these tests highlight the ability of the aquifer to transmit and store water. Notably, the recovery tests corroborated the transmissivity values obtained from the pumping tests, underscoring the reliability of the findings. The high transmissivity observed in Garilong village near OS-9 sampling site emphasizes the aquifer's potential to support groundwater flow in the study area.
4. The infiltration tests conducted during the pre-monsoon and post-monsoon periods provided valuable insights into the hydraulic conductivity of the study area. The findings reveal that the infiltration capacity varies significantly across the study area, influenced by soil characteristics and anthropogenic activities. Lower hydraulic conductivity was consistently

observed near the ash pond areas in both seasons, primarily due to soil compaction from heavy vehicle movement. In contrast, higher hydraulic conductivity was recorded at sites like the area behind Koyal Karo Guest House during the pre-monsoon period and near the water storage reservoir (IF-6) and Ash Dyke 1 (TIF-1) during the post-monsoon period, attributed to favourable soil properties and vegetation cover.

5. The groundwater quality monitoring during the pre- and post-monsoon periods of years 2023 and 2024 reveals notable seasonal variations influenced by hydrological and anthropogenic factors. Physicochemical parameters, including pH, electrical conductivity (EC), total dissolved solids (TDS), dissolved oxygen (DO), and temperature, showed seasonal trends. The pH values ranged from slightly acidic to slightly alkaline, with averages close to neutral across all seasons. EC and TDS were slightly higher in the pre-monsoon periods, while post-monsoon values reflected the dilution effect of monsoon rain. DO levels were generally lower during the pre-monsoon seasons, indicating reduced oxygenation in stagnant water. Groundwater temperatures exhibited expected seasonal variations, with higher averages during the pre-monsoon periods.
6. The analysis of heavy metals revealed that most elements, such as Li, B, Cu, Zn, Cd, Ba, Hg and Pb, were within permissible limits. Higher concentrations of certain metals, including Al Cr and Fe, were observed during pre-monsoon periods, likely due to groundwater stagnation and anthropogenic activities. Post-monsoon dilution reduced these concentrations. Major ions like Ca, Mg, Na, Cl, and SO_4 were present within the Bureau of Indian Standards (BIS) permissible limits, with seasonal variations. Nitrate (NO_3) concentrations remained below the BIS limit of 45 ppm in most samples, with occasional higher values in pre-monsoon seasons, likewise, pre-monsoon 2023 site codes OS-28, 41 and 44, indicating potential agricultural runoff. Parameters like total alkalinity (TA) and total hardness (TH) were higher in pre-monsoon samples, reflecting greater mineral dissolution during dry periods. Fluoride (F) and bromide (Br),

showed negligible or minimal concentrations, while heavy metals like mercury (Hg) and lead (Pb) were also negligible, indicating minimal contamination from industrial sources. Overall, the groundwater quality remained within acceptable limits for most parameters, with variations attributed to seasonal and local factors. In conclusion, the groundwater quality in the study area is generally suitable for drinking and agricultural use, with some seasonal variations. Pre-monsoon periods showed higher concentrations of dissolved ions and heavy metals due to reduced dilution, while post-monsoon seasons exhibited improved water quality due to rainfall-induced flushing and dilution.

7. The surface water quality monitoring conducted during the pre-monsoon and post-monsoon seasons of 2023 and 2024 highlights the seasonal variations and factors influencing the water quality in the study area. Physicochemical parameters such as pH, electrical conductivity (EC), total dissolved solids (TDS), dissolved oxygen (DO), and temperature revealed notable differences between seasons. While the pH values ranged from slightly acidic to slightly alkaline, the average values remained within the BIS acceptable range of 6.5–8.5, reflecting overall neutral to slightly alkaline conditions. EC and TDS were higher during the pre-monsoon seasons, indicating greater ion concentrations due to reduced dilution, whereas post-monsoon values decreased, signifying the dilution effect of rainfall. DO levels were higher in post-monsoon periods, likely due to increased water flow and mixing, while temperatures were comparatively higher in pre-monsoon seasons. The analysis of heavy metals, including Al, Mn Fe, Cd and Cr, indicated that their concentrations were largely within BIS limits, although localized variations were observed, particularly in pre-monsoon 2023, when reduced dilution and anthropogenic activities likely contributed to higher levels. Post-monsoon seasons exhibited a decline in heavy metal concentrations due to the flushing effect of monsoon rains. Major ions such as Ca, Mg, Na, K, Cl, SO_4, and NO_3 also followed seasonal trends, with higher concentrations recorded in pre-monsoon periods and a dilution effect

observed post-monsoon. Notably, nitrate concentrations remained well below the BIS limit of 45 ppm across all seasons. Organic and biological parameters, including biological oxygen demand (BOD) and chemical oxygen demand (COD), were higher during pre-monsoon seasons probably due to reduced water flow. Post-monsoon periods showed lower levels, reflecting improved water quality following rainfall. The most probable number (MPN) of microbial contamination was negligible in most samples, suggesting minimal microbial pollution. Overall, the surface water quality in the selected area remained within BIS limits, with seasonal variations. In conclusion, surface water quality showed better conditions post-monsoon due to dilution, while pre-monsoon samples highlighted localized contamination.

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Appendix-A: Photographs of sampling sites around NTPC North Karanpura (Tandwa), along with geographic coordinates

Water Sampling Sites (Ground and Surface water)					
S.no	Site name	Coordinates		Location Photograph	Remarks
		Latitude	Longitude		
1	OS-1	23°49'29.46"	85°0'31.26"		Raham Village, Open Well
2	OS-2N	23°49'24.384"	85°0'49.176"		Raham Village, Tandwa Road
3	OS-3	23°49'16.14"	85°0'16.92"		South Raham Village; Artesian Well Hot Water

4	OS-4	23°49'30.9"	85°0'12.96"		In front of Server Ansari House (NO sample taken)
5	OS-5	23°49'30.9"	85°0'14.52"		Moeen Ansari well
6	OS-6	23°51'2.22"	85°0'13.98"		Zahur well (Kamta Village)

7	OS-7	23°51' 0.00"	85°0'12.48"		Solar Pump, Not Working, Kamta Village
8	OS-8N	23°51' 0.00"	85°0'12.48"		in front of Solar pump, Kamta Village
9	OS-9N	23°49'24.384"	85°0'49.176"		Bhuwneshwar Yadav, Garhilong (Possible pump site)

10	OS-10N	23°51'29.232"	85°0'25.236"		Infront of Temple, Near Barrage
11	OS-11	23° 51' 18.34"	85° 2' 6.13"		Water Level Reservoir, Tandwa
12	OS-12	23°51'24.28"	85° 2'0.10"		Garhi River, Near OS 11, Tandwa Market
13	OS-14	23°51'53.64"	85°0'7.17"		DPS school; Kasaha Village; Upstream of river(w.r.t NTPC plant)

14	OS-15	23°50'49.92"	85°1'46.74"		Tandwa village; near ranger office; East side of plant; Rajendra rana well
15	OS-16	23°50'51.54"	85°1'41.82"		More near to plant than OS 15; Parallel to plant chimney; Chamar Paswan well
16	OS-17	23°50'45.78"	85°1'46.86"		In front of Joda Lake
17	OS-20	23°48'45.72"	85°1'33.528"		Adjacent to main road (Indiamarka), Depth of well nearby taken

18	OS-21	23°47'40.74"	85°1'15.744"		Akash Surao handpump(Indiamarka); Red colour water after sometime becomes yellow
19	OS-22	23°46'28.524"	85°1'28.272"		Rajkiya Madhya vidyalaya, Mander, Indiamarka handpump (Depth of well taken nearby)
20	OS-23	23°47'24.396"	85°2'35.59"		OLD Downstream Point, Chora village
21	OS-24	23°44'56.313"	85°4'8.4"		Karo Village, Garhi River

22	OS-25	23°45'40.752"	85°4'43.788"		Vikram Rao, Dauthmandar Village
23	OS-26	23°45'40.752"	85°4'43.788"		Near OS-25, Vikram Rao, Dauthmandar Village
24	OS-27	23°54'27.108"	85°0'58.536"		Ganesh Sahoo, Serandag Village
25	OS-28	23°54'27.108"	85°0'58.536"		Near OS-27, Ganesh Sahoo, Serandag Village

26	OS-29	23°56'0.096"	85°1'19.38"		Near Khelha bridge, Garhi River upstream
27	OS-30	23°56'0.168"	85°1'0.84"		Near Prathmik vidhyalaya, khelha Village
28	OS-31	23°53'20.97"	85°4'19.056"		Near Pappu general store, Pramod Halwai
29	OS-32	23°53'7.728"	85°4'58.512"		Krishna Singh well

30	OS-33	23°53'1.68"	85°5'22.056"		Pond near Hanuman Ji Temple, Keredari road
31	OS-34	23°52'11.67"	85°5'34.728"		Govind Shah, Keredari village, Pagar Road
32	OS-35	23°51'48.92"	85°5'50.004"		Keredari Pond

33	OS-36	23°51'51.04"	85°5'47.652"		Chetta Ram Mali, Keredari Village
34	OS-37	23°45'34.56"	85°5'38.616"		Bholanath Mahto, Tarwan Village
35	OS-38	23°47'31.24"	84°57'9.936"		Adjacent to sidpa road

36	OS-39	23°46'43.53"	84°56'15.30"		Badgaon Village, Near Panchayat Bhawan
37	OS-40	23°46'43.53"	84°56'15.30"		Near OS-39, Badgaon Village, Near Panchayat Bhawan
38	OS-41	23°52'56.856"	84°57'35.028"		Ajay Prasad Burkutte Village

39	OS-42	23°5'2'56.856"	84°57'35.028"		Near OS-41, Ajay Prasad Burkutte Village
40	OS-43	23°52'10.74"	84°56'22.59"		Ramanandan Shah, Karlonga Village
41	OS-44	23°52'8.724"	84°56'21.40"		Lakhan Shah, Karlonga Village

42	OS-45	23°50'26.26"	84°55'17.14"		Chamatu entrance
43	OS-46	23°50'20.07"	84°55'23.19"		Sheetal Shah, Chamatu
44	OS-47	23°51'15.80"	85°0'44.496"		Adjacent to plant Boundary

45	OS-48	23°50'24.32"	85°0'41.168"		Ash Dyke Lagoon 1
46	OS-49	23°50'37.52"	85°1'55.008"		Reservoir

Appendix-B: Photographs of Infiltration test sites around NTPC North Karanpura (Tandwa), along with geographic coordinates

Infiltration Sites					
S.no	Site name	Coordinates		Location Photograph	Remarks
		Latitude	Longitude		
1	TIF-1	23°50' 24.252"	85°0' 41.184"		Ash Dyke 1
2	TIF-2	23°50' 15.684"	85°0' 56.34"		Ash Dyke 2
3	TIF-3	23°50' 24.4812"	85°0' 54.306"		Ash Dyke 3

4	TIF-4	23°50' 28.98"	85°1' 12.45"		Ash Dyke Boundary
5	TIF-5	23°50' 52.4976"	85°1' 34.0334"		Behind koyal karo Guest house
6	TIF-6	23°50' 54.852"	85°1' 25.296"		Near Umang sports ground

Appendix-C: Photographs of Borewells and rainwater harvesting site in NTPC North Karanpura (Tandwa), along with geographic coordinates

Borewells and rainwater harvesting Sites					
S.no	Site name	Coordinates		Location Photograph	Remarks
		Latitude	Longitude		
1	BW-1	23°50'57.5376"	85°1'17.9472"		Inside Township, Behind Sanjeevni hospital
2	BW-2	23°50'57.0264"	85°1'18.3612"		Inside CISF Barrack
3	BW-3	23°50'49.3752"	85°1'19.2936"		CISF Quarter Guard

4	BW-4	23°50'51.6372"	85°1'22.728"		Near BW 3
5	BW-5	23°50'51.7296"	85°1'22.56"		Inside STP Plant Township
6	BW-6	23°50'43.782"	85°1'28.1388"		Behind Atulyam Guest house
7	BW-7	23°50'44.3484"	85°24.3944"		In front of B-1, township

8	BW-8	23°50'49.176"	85°1'20.0872"		Pump House, township
9	BW-9	23°50'43.9206"	85°1'28.1388"		Near Fire drill tower, inside plant
10	BW-10	23°50'51.6516"	85°1'31.2"		Behind office, inside plant
11	BW-11	23°50'52.4544"	85°0'59.5776"		In front of vishveshwariya office

12	BW-12	23°50'45.4596"	85°1'38.658"		Near Annapurna Mess, Township
13	RW-1	23°50'50.3272"	85°1'25.4172"		Near STP Inside Township (Three pits side by side)

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Idma Laboratories Limited

TEST REPORT

LAB NO.		111125N-E-421	Page No.1/2
Customer		M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.		4000322280-037-1019	
Type of Sample		UpStream Water	
Quantity		5+1 Litre	
Packing, Markings		Packed in 5 Litre can & 1 Litre Glass bottle	
Mode of collection of Sample		Sampling by Laboratories	
Sample Collected by		Idma Lab Representative	
Date of Sampling		08.11.2025	
Location of Sampling		Garhi River	
Date of Receiving of sample		11.11.2025	
Period of Analysis		11.11.2025 to 20.11.2025	
Date of Reporting		20.11.2025	
Sampling Protocol		IS:17614	
S.No.	**Test Parameters**	**Units**	**Results**	**Test Method**
1	pH	.....	7.18	APHA 4500H+B 24th Edition, 2023
2	Temperature	°C	26.3	APHA 2550B 24th Edition, 2023
3	Conductivity	µS/cm	327.5	APHA 2120B&C 24th Edition, 2023
4	Total Suspended Solid	mg/L	8	APHA 2540D 24th Edition, 2023
5	Total Dissolved Solids	mg/L	185	APHA 2540C 24th Edition, 2023
6	Ca Hardness	mg/L	94	APHA 3500-CaB 24th Edition, 2023
7	Mg Hardness	mg/L	55	APHA 3520-MgB 24th Edition, 2023
8	Fluorides	mg/L	0.67	CPCB Guide Manual: Water & waste water Analysis
9	Copper	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
10	Iron	mg/L	0.0011	APHA 3125B 24th Edition, 2023
11	Boron	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
12	Arsenic	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
13	Mercury	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
14	Manganese	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
15	Zinc	mg/L	0.0004	APHA 3125B 24th Edition, 2023

20/11/25

20/11/25

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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TEST REPORT

LAB NO.		111125N-E-421		Page No.2/2
16	Nickel	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
17	Cadmium	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
18	Chromium	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
19	Chromium Hexavalent		<0.05	APHA 3500CrB 24th Edition, 2023
20	Lead	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
21	COD	mg/L	7	CPCB Guide Manual: Water & waste water Analysis
22	BOD	mg/L	<2	CPCB Guide Manual: Water & waste water Analysis
23	Total Coliforms	MPN/100ml	26	IS1622:1981
24	E-Coli	MPN/100ml	6	APHA 9221E 24th Edition, 2023
25	Fecal Coliforms	MPN/100ml	Absent	IS1622:1981

EndofReport

Authorised by 20/11/25

Reviewed by

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TEST REPORT

LAB NO.		111125N-E-422		Page No.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)		
Work Order No.		4000322280-037-1019		
Type of Sample		Down Stream Water		
Quantity		5+1 Litre		
Packing,Markings		Packed in 5 Litre can & 1 Litre Glass bottle		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		08.11.2025		
Location of Sampling		Garhi River		
Date of Receiving of sample		11.11.2025		
Period of Analysis		11.11.2025 to 20.11.2025		
Date of Reporting		20.11.2025		
Sampling Protocol		IS:17614		
S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.24	APHA 4500H+B 24th Edition, 2023
2	Temperature	°C	25.1	APHA 2550B 24th Edition, 2023
3	Conductivity	µS/cm	336.3	APHA 2120B&C 24th Edition, 2023
4	Total Suspended Solid	mg/L	9	APHA 2540D 24th Edition, 2023
5	Total Dissolved Solids	mg/L	190	APHA 2540C 24th Edition, 2023
6	Ca Hardness	mg/L	103	APHA 3500-CaB 24th Edition, 2023
7	Mg Hardness	mg/L	59	APHA 3520-MgB 24th Edition, 2023
8	Fluorides	mg/L	0.65	CPCB Guide Manual: Water & waste water Analysis
9	Copper	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
10	Iron	mg/L	0.0013	APHA 3125B 24th Edition, 2023
11	Boron	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
12	Arsenic	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
13	Mercury	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
14	Manganese	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
15	Zinc	mg/L	0.0006	APHA 3125B 24th Edition, 2023
16	Nickel	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
17	Cadmium	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
18	Chromium	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
19	Chromium Hexavalent		<0.05	APHA 3500CrB 24th Edition, 2023
20	Lead	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
21	COD	mg/L	10	CPCB Guide Manual:Water & waste water Analysis
22	BOD	mg/L	<2	CPCB Guide Manual: Water & waste water Analysis
23	Total Coliforms	MPN/100ml	32	IS1622:1981
24	E-Coli	MPN/100ml	7	APHA 9221E 24th Edition, 2023
25	Fecal Coliforms	MPN/100ml	Absent	IS1622:1981

EndofReport

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	130226N-E-409	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Up Stream Water	
Quantity	5+1 Litre	
Packing, Markings	Packed in 5 Litre can & 1 Litre Glass bottle	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.02.2026	
Location of Sampling	Garhi River	
Date of Receiving of sample	13.02.2026	
Period of Analysis	13.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	IS:17614	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	----	7.23	APHA 4500H+B 24th Edition, 2023
2	Temperature	°C	24.1	APHA 2550B 24th Edition, 2023
3	Conductivity	µS/cm	346.8	APHA 2120B&C 24th Edition, 2023
4	Total Suspended Solid	mg/L	10	APHA 2540D 24th Edition, 2023
5	Total Dissolved Solids	mg/L	204	APHA 2540C 24th Edition, 2023
6	Ca Hardness	mg/L	116	APHA 3500-CaB 24th Edition, 2023
7	Mg Hardness	mg/L	64	APHA 3520-MgB 24th Edition, 2023
8	Fluorides	mg/L	0.77	CPCB Guide Manual:Water & waste water Analysis
9	Copper	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
10	Iron	mg/L	0.0018	APHA 3125B 24th Edition, 2023
11	Boron	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
12	Arsenic	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
13	Mercury	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
14	Manganese	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
15	Zinc	mg/L	0.0009	APHA 3125B 24th Edition, 2023
16	Nickel	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
17	Cadmium	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
18	Chromium	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
19	Chromium Hexavalent		<0.05	APHA 3500CrB 24th Edition, 2023
20	Lead	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
21	COD	mg/L	4	CPCB Guide Manual: Water & waste water Analysis
22	BOD	mg/L	<2	CPCB Guide Manual: Water & waste water Analysis
23	Total Coliforms	MPN/100ml	25	IS1622:1981
24	E-Coli	MPN/100ml	8	APHA 9221E 24th Edition, 2023
25	Fecal Coliforms	MPN/100ml	Absent	IS1622:1981

End of Report

Authorised Signatory

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	130226N-E-410	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Down Stream Water	
Quantity	5+1 Litre	
Packing, Markings	Packed in 5 Litre can & 1 Litre Glass bottle	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.02.2026	
Location of Sampling	Garhi River	
Date of Receiving of sample	13.02.2026	
Period of Analysis	13.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	IS:17614	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.25	APHA 4500H+B 24th Edition, 2023
2	Temperature	°C	24.1	APHA 2550B 24th Edition, 2023
3	Conductivity	µS/cm	360.4	APHA 2120B&C 24th Edition, 2023
4	Total Suspended Solid	mg/L	12	APHA 2540D 24th Edition, 2023
5	Total Dissolved Solids	mg/L	212	APHA 2540C 24th Edition, 2023
6	Ca Hardness	mg/L	122	APHA 3500-CaB 24th Edition, 2023
7	Mg Hardness	mg/L	66	APHA 3520-MgB 24th Edition, 2023
8	Fluorides	mg/L	0.79	CPCB Guide Manual:Water & waste water Analysis
9	Copper	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
10	Iron	mg/L	0.0021	APHA 3125B 24th Edition, 2023
11	Boron	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
12	Arsenic	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
13	Mercury	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
14	Manganese	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
15	Zinc	mg/L	0.0011	APHA 3125B 24th Edition, 2023
16	Nickel	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
17	Cadmium	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
18	Chromium	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
19	Chromium Hexavalent		<0.05	APHA 3500CrB 24th Edition, 2023
20	Lead	mg/L	<0.0005	APHA 3125B 24th Edition, 2023
21	COD	mg/L	8	CPCB Guide Manual: Water & waste water Analysis
22	BOD	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis
23	Total Coliforms	MPN/100ml	30	IS1622:1981
24	E-Coli	MPN/100ml	10	APHA 9221E 24th Edition, 2023
25	Fecal Coliforms	MPN/100ml	Absent	IS1622:1981

EndofReport

Authorised By

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	140226N-E-421	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fly Ash	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.02.2026	
Location of Sampling	Fly Ash(Unit-1)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	SW-846Chapter9	

S.No.	Test Parameters	Units	Results	Test Method
1	Arsenic as As	mg/kg	BLQ(LOQ-0.05)	APHA 3225B
2	Chromium as Cr	mg/kg	20.14	APHA 3225B
3	Lead as Pb	mg/kg	0.08	APHA 3225B
4	Mercury as Hg	mg/kg	BLQ(LOQ-0.05)	APHA 3225B

EndofReport

18/02/26

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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18/2/26.

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TEST REPORT

LAB NO.	140226N-E-422	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fly Ash	
Quantity	1 Kg	
Packing, Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.02.2026	
Location of Sampling	Fly Ash(Unit-2)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	SW-846Chapter9	

S.No.	Test Parameters	Units	Results	Test Method
1	Arsenic as As	mg/kg	BLQ(LOQ-0.05)	APHA 3225B
2	Chromium as Cr	mg/kg	19.66	APHA 3225B
3	Lead as Pb	mg/kg	0.09	APHA 3225B
4	Mercury as Hg	mg/kg	BLQ(LOQ-0.05)	APHA 3225B

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18/02/26

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18/02/26.

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	140226N-E-423	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	Fly Ash	
Quantity	1 Kg	
Packing,Markings	Packed in sample bag.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	10.02.2026	
Location of Sampling	Fly Ash(Unit-3)	
Date of Receiving of sample	14.02.2026	
Period of Analysis	14.02.2026 to 18.02.2026	
Date of Reporting	18.02.2026	
Sampling Protocol	SW-846Chapter9	

S.No.	Test Parameters	Units	Results	Test Method
1	Arsenic as As	mg/kg	BLQ(LOQ-0.05)	APHA 3225B
2	Chromium as Cr	mg/kg	20.04	APHA 3225B
3	Lead as Pb	mg/kg	0.07	APHA 3225B
4	Mercury as Hg	mg/kg	BLQ(LOQ-0.05)	APHA 3225B

EndofReport

Authorised By

Reviewed by 18/02/26

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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एनटीपीसी
NTPC
A Maharatna Company



DISASTER MANAGEMENT PLAN
OF
NKSTPP (3X660 MW)-UNDER CONSTRUCTION

REV-02, Dated:18.05.2023

NORTH KARANPURA SUPER THERMAL POWER PROJECT (3X660 MW)
Post – North Karanpura, District- Chatra
Jharkhand- 825415

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1. PREAMBLE

The aim of NTPC is safe Project execution / Station operation / generation. All efforts right from the design stage itself emphasize safety and elimination of accidents in the industry. However, due to human errors or system malfunctioning accidents could happen. The suffering and damage as a result of an accident is determined by the potential for loss surrounding the event. By taking effective action at the time of occurrence of the incident, full potential loss can be largely avoided. Effective actions will be possible for handling major emergencies if preplanned procedures utilizing the combined resources of the factory and outside emergency services are practiced.

As per the provisions in the section 41-B (4) of the Factories Act 1987 (as amended) requires that every occupier is to draw up an On-site Emergency Plan with detailed disaster control measures for the factory and to educate the workers employed in the factory premises.

This is the statutory provision laid down in the act for preparation of On-site Emergency Plan to control disaster in the factories. Any accidents may cause emergency and it may lead to disaster, which may cause heavy damage to plant, property & harm to persons and create adverse effects on production.

This On-site Disaster Management Plan has been prepared in accordance with the above.

- Transport facilities available with the plant

  - Jeep - 28
  - Tractor - 1
  - Ambulance - 3

  Disaster Management Teams of the plant is enclosed in annexure – 2. The employees other than contractual workers are regular employees of North Karanpura Super Thermal Power Project.

- The area in which the plant is situated is quite populated. The population within 1 Km radius is about 15000 (approx) and within 2.5 Km radius is about 25000 (approx).

- Government bodies with whom liaising may be required are listed below :

  - Police station : Tandwa Police Station (Tel- 9431706324)
  - D.C."s office : Chatra (Tel -06553-261555)
  - S.D.O."s office : Simariya (Tel - 098351 64695)
  - Factory Inspector"s office : Hazaribagh

- The nearby industries who"s help can be sought or services may be utilized under mutual-aid-scheme are listed below :

  - Parki Barwadih Coal Minning Project (NTPC).
  - Piparwar Coal Minning (CCL)
  - Amrapali Coal Minning (CCL)
  - Magadh Coal Minning (CCL)

- Medical facilities are available near the plant who"s services can be utilized as per requirements: Nearby hospitals are

  - NTPC Hospital
  - PHC Tandwa
  - Distt Hospital Chatra

- There is a canteen operating near the plant boundary where tea, snacks and lunch is available on payment basis. Drinking water is available within the plant boundary.

- The climatic condition of the area in which the plant is situated is no different from that of Plateau of Chotanagpur belt of Jharkhand. Summers are hot and winters are cold. Except for rainy season, which normally lasts from June to September, the weather is generally dry. Wind proves to be the greatest influence in the dispersion fire, if any. Meteorological features of the Chotanagpur Plateau can broadly be summarised as follows:

  * Temperature
    - Mean monthly during summer : 32-42 deg. C
    - Mean monthly during winter : 14-24 deg. C

3. OBJECTIVES OF ON-SITE EMERGENCY PLAN

The objectives of the On-site emergency Plan is to develop, implement and maintain an integrated emergency management system for protection of people, property and the environment in the event of an on-site emergency caused by hazardous material or a major accident.

The ultimate goal is to reduce the vulnerability of the plant due to any emergency, to save lives and protect property by developing capabilities that mitigate the effects of, prepare for, respond to and recover from any emergency that could affect the area.

a) It would help to accomplish the aforesaid objectives by assigning actions at plant at times & places in an emergency that exceeds the capability or routine responsibility of any one agency.

b) It sets forth lines of authority and inter-group relationships, and shows how all actions will be coordinated. It describes how people and property will be protected in emergencies.

c) The plan identifies resources viz. personnel, equipment, facilities, supplies available within or by agreement with others for use during response.

d) This is a positive effort towards Emergency Management making use of the combinedresources of the plant and the outside services to achieve the following:

- Effective Rescue and Medical treatment of casualties.
- Safe guard other people in the premises.
- Minimize damage to property and the environment.
- Initially contain and ultimately bring the incident under control.
- Identify the dead and injured, if any.
- Provide for the needs of relatives, who come for any inquiry.
- Provide authoritative information to the news media.
- Secure the safe rehabilitation of affected area.
- Preserve relevant records and equipment for the subsequent enquiry, (If conducted), into the cause and circumstances of the Emergency.

Principal Raw Material	vi) **Raw Coal – 10.6 Million MT per annum** Transported from Magadh Coal Block of CCL to the project site through cross country conveyor belt system. One external coal handling plant and one internal coal handling plant are envisaged. **Water** – Make up water requirement for this project would be approx. 22 cusec (2200 m3/hr) and will be arranged through barrage /weir across river Garhi.
Name & Address of Occupier & Chief Incident Controller (CIC)	Sh Tajinder Gupta, GGM (NK), Plant Head Mobile No : 9650994662
Name & Address of Factory Manager & Works Incident Controller (WIC)	Sh. Ajay Kumar Shukla, GM (O&M) Mobile No : 9471001071
Access to the Plant and Escape Route	There is one gate for access & escape to the Power Project, which is manned by CISF Security wing. All the plant locations are connected through well laid plant roads for

SALIENT FEATURES OF THE PROJECT

1. The project is situated on the coal bearing area.
2. The NKSTPP is the first power project in the country near a coal mine with environment friendly supercritical technology.
3. No permanent structures other than those required for operationalizing and running the power plant will be allowed to come up in the vicinity of the mining areas.
4. The project is equipped with Air Cooled Condenser (ACC) to reduce the water requirement by 80% as compared to conventional method to protect the environment by least use of land & water. Water consumption reduced from 90 Cusec to 22 Cusec.
5. Coal is to be transported from mine directly through a cross-country piped conveyor of length 8 km (Approx.) to the plant.

8. Emergency Plan: A formal written documented plan which, on the basis of identified potential accidents together with their consequences, describes how such accidents and their consequences should be handled, either on-site or off-site.

9. Emergency preparedness: Preparedness means the state of readiness to deal with a threatening disaster situation or disaster and the effects thereof.

10. Emergency Response: The efforts to minimize the severity of an accident by protecting the people, the environment or the property and bring back the scene to normal pre- emergency conditions.

11. Evacuation: Removal of persons from the accident site / neighboring place and diverting them to assembly point.

12. Hazard: A source or a situation with a potential to cause harm in terms of human injury or ill health, damage to property, damage to the environment or a combination of these.

13. Hazard Analysis: Identification of undesired events that may lead to the materialization of the hazard. The analysis of the mechanism by which those undesired events could occur and usually the estimation of the nature, characteristics and magnitude of the possible loss/damage to life and property. The loss/damage, severity would be analyzed and assessed for each hazard identified.

14. Hazardous Chemical: Hazardous chemicals means any chemical which satisfies any of the criteria laid down in Part I of Schedule I or listed in Column 2 of Part 2, any chemical listed in Column 2 of Schedules 2 and 3 of the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.

15. IDLH Value: Immediately Dangerous to Life or Health (IDLH) is a condition "that possesses a threat of exposure to airborne contaminants when that exposure is likely to cause immediate death or delayed permanent adverse health effects or prevent escape from such an environment".

6. INCIDENT INFORMATION SUMMARY FORMAT

The first information about an incident becomes a very vital input for effective handling of any emergency situation. It is important to gather as much as information as possible very quickly so as to facilitate various decisions and to initiate appropriate actions. In order to obtain maximum information from the person giving the first information about the incident, the suggested format for "Incident Information Summary" is given below. The questions given in the format are to be asked to the caller who is giving the first information. Answers for some of the questions may be unknown to the caller but it is important to gather more information as possible.

INCIDENT INFORMATION SUMMARY	
Date & Time	Name of the caller : .....
Location of the incident.....	Caller"s contact No. .....
Near by location:.....	Nearby population.....
Nature of incident (ex. Leak, explosion, spill, fire, accident).....	Time of release.....
Possible effects	No. of dead or injured.....
Where dead or injured are taken?	Rescue accomplished. ..... or Rescue needed? .....
Name of the material released	If unknown, container type .....
Placard/label information.....	Characteristics of material (ex. Color, smell etc).....
Present physical state of material.....	Total amount of material that may be released.....
Other hazardous material in area.....	Amount of material released so far/ duration of release.....
Whether significant amount of material appear to be entering the atmosphere, water, storm drains, or soil?	Whether the release was in a confined space? .....
Direction, height, color & odor of any vapor clouds or plumes	Weather conditions (wind direction, speed, inversion)..... .....
Localterrainconditionssignificantto Dispersion of personnel at the scene.....	Any other relevant information? ..... .

Water requirement for boilers and other plant equipment as well as drinking water is being met by constructing a Barrage/Weir at Garhi River which is about 03 km from the main plant.

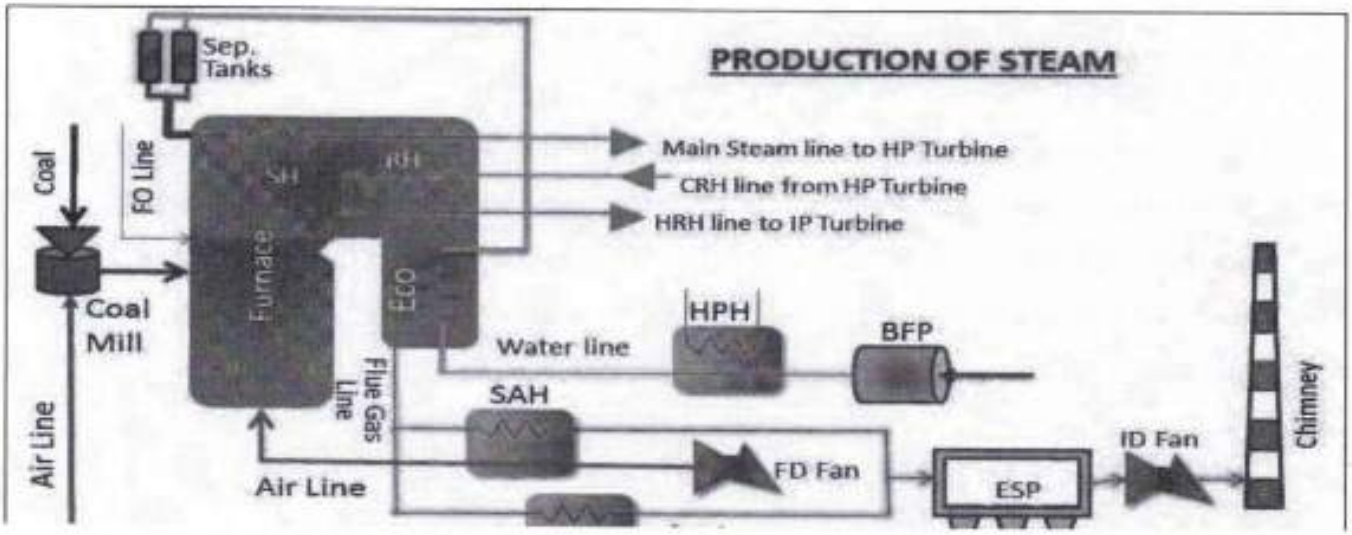
Intake Water Pump House near Tandwa village pumps raw water to the Reservoir at the plant having 1,60,000 M^3 storage capacity. The approximate fresh water requirement is 2200 cubic metre per hour. Water used in the boiler is demineralized at DM Plant with anion / cation exchange process.

b. Steam to Power:

The Main Steam line conveys steam to HP Turbine through a stop valve and through control valves that automatically regulate the supply of steam to the turbine. The steam passes through each stage in turn until it reaches the end of the high pressure cylinder and in its passage some of its heat energy is changed into mechanical energy.

The steam leaving the high pressure cylinder (i.e. CRH) goes back to the boiler for reheating and returns (i.e. HRH) by a further pipe to the intermediate pressure cylinder. Here it passes through another series of stationary and moving blades.

Finally, the steam is taken to the low pressure cylinders, each of which it enters at the centre flowing outwards in opposite directions through the rows of turbine blades (an arrangement known as double flow) to the extremities of the cylinder. As the steam gives up its heat energy to drive the turbine, its temperature and pressure fall and it expands. Because of this expansion, the blades are much large and longer towards the low pressure ends of the turbine.



The typical set-up for an ACC installation includes:

i. the supporting structure

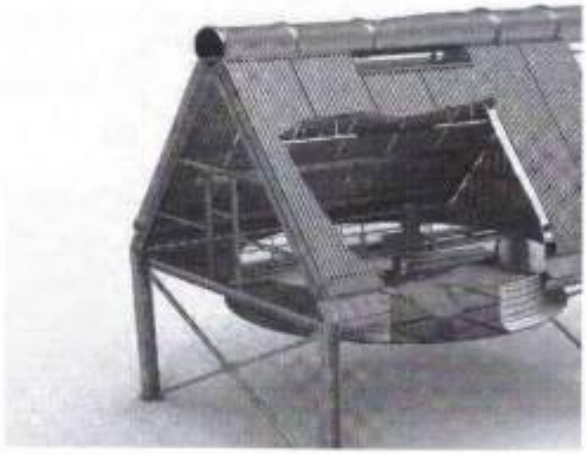
ii. the steam ducting from the steam turbine interface

iii. heat exchangers, finned tubes, fans, motors, gearboxes, and auxiliaries such as the condensate and drain pumps

iv. condensate and duct drain tanks,

v. the air evacuation units

vi. related piping works and instrumentation





From the condensers, the condensate is pumped through low pressure heaters and De-aerator by the extraction pump (CEP), after which its pressure is raised to boiler pressure by the Boiler Feed Pump (BFP). It is further passed through feed heaters (HPH) to the economizer and the boiler for re-conversion in to steam.

c. Switching and Transmission of Power:

The electricity produced in the stator winding of generator at about 21 kV and is fed through terminal connections to one side of a generator transformer that step up the voltage to 400 kV.

Power evacuation system of NKSTPP is detailed as under:

1. NK-Chandwa, 400KV Double Circuit Transmission Line
2. NK-Gaya, 400KV Double Circuit Transmission Line

Construction of above lines is being executed by M/s NKTL.

9. SUMMARY OF RISK ANALYSIS

Risk analysis of the following major hazard potential areas of NTPC North Karanpura Super Thermal Power Project.

i. Hydrogen gas storage

ii. Fuel Oil Pump House.

iii. Ash Dyke breach.

iv. Reservoir Bund breach

I. Effects of Hydrogen gas leakage at Hydrogen storage godown.
   a. Bursting of a Hydrogen cylinder (Inventory = 0.5 Kg, ambient temperature and 150kgf/cm2).
   b. Bursting of 10 Hydrogen cylinders at each unit makeup filling station (Inventory = 5 Kg, ambient temperature and 150 kgf/cm2).
   c. Bursting of 420 Hydrogen cylinders at storage godown (where minimum inventory required for two units (Inventory = 210 Kg, ambient temperature ad 150 kgf/cm2).

II. Risk analysis summary in Fuel Oil Pump House:

   a. In case of LDO leakage in the 6 mm hole from the outlet pipeline of LDO Tank, the liquid fuel comes out and can for oil pool within the bund area. In case there is pool fire, the effect would be within acceptable level.
   b. In case of rupture of the LDO tank, can result liquid to come out and fill the pool area of the bund. In case there is pool fire, likely risk of damage to the objects from thermal radiations.
   c. In case of Tank fire of LDO, there is likely risk of injury/damage to people & objects from thermal radiations.

III. Risk analysis summary in Ash Dyke Breach

A large quantity of Ash and water from station is getting stored inside the Ash dyke. During heavy rains and floods Ash pond dyke is vulnerable for

10. EVENTS THAT CAN LEAD TO A MAJOR ACCIDENT

Considering the process and the material being used at North Karanpura Super Thermal Power Project, the major hazard potential has been assessed and enumerated below.

Major Plant Sections	Major Hazard Potential						
	Slow Isolated Fire	Fast Spreading Fire	Explosion	Bursting of pipes / vessels	Releaseof Hazardous liquid	Release of Hazard ous gases	Floods
CHP	Coal Yard	Conveyor	Coal dust				
Boiler House	Mills & Burner		Furnace	Steam lines, air receivers		Flue gas from ducts	
Turbine House		Oil tanks control room	H2 Generator	Steam lines	Control fluid		
DM Plant					HCl, NaOH		
H2 Plant	H2 pipes		H2 holder / Cylinders				
GT & 400 KV SW	Transfo rmer		CT / PT / CBs				
Fuel Oil P/H		HFO / LDO tanks		FO lines	HFO/LDO		
Cable Galleries		Cables in trays					

11. EMERGENCY SCENARIOS

From the major hazard potential assessment and summary of Risk Analysis probable emergency scenarios have been identified in the order of their seriousness. Except in the case in all other cases, the emergency scenario would be confined to On-site Emergency nature only. Significant On-site / Off-site emergency scenarios are as given below.

Major On-site Emergency Scenario-1:

Release of Liquid Chemicals:

There are chances of spill-over/leakage of HCl & NaOH from storage tanks and also due to bursting of acid/alkali lines in DM Plant. There are chances of chemical burns due to contact with acid/alkali.

Major On-site Emergency Scenario-2:

Hydrogen gas is used in the Generator for stator cooling. Fire and explosion in H_2 gas cylinder storage room is possible in case of total failure of entire protection systems or due an illicit act/sabotage.

Major On-site Emergency Scenario-3:

Major fire and explosion in LDO tanks or major pool fire may take place at FOPH due to total system failure or an illicit act/sabotage.

Other Emergency Scenarios:

a) Major Fire in Coal handling plant :

There have been occasions of major fire in conveyor galleries in various power plants. Fires may occur due to over friction in the belt conveyors,

e. Turbo-Generator Explosion:

H2 gas explosion is a possible hazard in Generator. Various interlocks and protections are available to taken care off to avoid generator explosion.

Off-site Emergency Scenario:

In the case of water release / ash slurry release due to bund failure from the reservoir / ash pond, which are located away from the plant boundaries, would lead to emergency situations in the villages and fields in the vicinity of the reservoir / ash pond.

13. EMERGENCY CONTROL CENTRE (ECC)

The Emergency Control Centre is the place from where the operations to handle the emergency are directed and coordinated. It will be attended by the CIC, his support team and the senior officers of District Administration.

Location of ECC:

Safety Control Room in 'Unit#1 Control room' has been identified as Emergency Control Centre (ECC) with adequate means of communication to areas inside and outside the plant together with relevant data, personnel protective equipment and equipment to assist those manning the centre and to enable them to plan accordingly.

Alternate Emergency Control Centre would be the Fire Station Control Room. Depends upon the anticipated risk during an emergency, one of the above two ECCs shall be decided by CIC for use.

Facilities and Items in each ECC :-

a. Safety data pertaining to all hazardous materials, which are likely to cause emergency.
b. Procedure of major and special fire fighting, rescue operations, First Aid etc.
c. Emergency call out list.
d. Nominal Roll of Employees

Manning of Emergency Control Centre:-

During normal working days, ECC will be under the control of Manager(Safety) in the day time. During an emergency, the ECC will be manned by the following personnel. However no other personnel shall have access to the Control Centre.

1. Chief Incident Controller (CIC), i.e., BUH (NK) or his Alternate
2. Members of Support team to CIC
3. Sr. Officers of outside services called in for assistance.

15. CORE TEAM & RESPONSIBILITIES

The Core Team consisting of Chief Incident Controller, Works Incident Controller and the Support Team to CIC

RESPONSIBILITIES OF CORE TEAM:

(i) Responsibilities of Chief Incident Controller (CIC):

The Chief Incident Controller (CIC) has an overall responsibility for directing operations and calling outside help. The BUH assumes the role of CIC.
Specific responsibilities/duties and requirements to be ensured by CIC are as under:

a. After assuming the position as CIC, he would get the information from the Works Incident Controller (WIC) and take overall control of the emergency.
b. Decide and declare emergency.
c. Decide and declare the location of ECC and Assembly point after consulting with WIC.
d. Continually review and assess existing and possible developments to determine the most probable course of events and effective methods to deal with them.
e. Direct a safe shut down and evacuation of plants, if required, in consultation with the WIC, his Support Team.
f. Ensure that casualties are receiving adequate attention.
g. Arrange for hospitalisation of victims and additional help if required.
h. Ensure that families / relatives of affected persons are informed.
i. If necessary, direct for information and liaison with Fire Services, Police Services, District Emergency Authorities and Officials of Directorate of Factories, Govt. of Jharkhand
j. Ensure accounting of personnel and collate the actual attendance with the master list of persons including contractors and visitors.
k. Arrange for the rescue of missing ones.
l. Arrange control of traffic movement within the Plant.

d. Arrange funds for various relief measures as well as emergency purchase of materials and sending his representative for emergency purchase.

e. Identify suitable staff to act as runners or messengers, between CIC and WIC, if the telephone and other system of communication fail due to any reason.

(iii) Responsibilities of Works Incident Controller (WIC):

The WIC operates from the nearest accident site. As per the response level matrix as indicated above assumes the role of WIC. The responsibilities of the WIC are as under:

a. Take charge of the scene of emergency as WIC and assess the scale of emergency.
b. In consultation with CIC, activate the on-site emergency plan.
c. Provide advice to the heads of DMP Teams reporting to him.
d. Search for trapped persons or casualties, if any.
e. Initiate rescue operations until the rescue team arrives through available staff and evacuate the non-essential persons and direct them to report at the Assembly Point.
f. Set up communication network with the Emergency Control Centre using Intercom / walkie-talkie / Mobile phones.
g. Ensure that the outside emergency services have been called in, if required.
h. Direct all operations within the affected area with following priorities
   i. Secure safety of personnel, giving priority to saving life and preventing further injury.
   ii. Advice and inform as required by the emergency responders, i.e. Fire and Security personnel or emergency services.
i. Keep CIC informed of the developments.
j. Preserve evidences, which would be necessary for subsequent investigation to find out the immediate and underlying causes of the emergency and for concluding preventive measures.

3. Decide beforehand proper use of fire fighting equipment.
4. Ensure availability of PPE and their safe use by the team members
5. Check the wind direction and advise the fire fighting operation accordingly.
6. Ensure that sufficient numbers of trained fire fighting persons are always available on site.
7. If required arrange to contact and call other trained fire persons from nearby industries with an information to CIC & WIC.
8. Keep / arrange liaison with members of Mutual Aid and establishments such as Industries as well as with Jharkhand Fire services for additional help.
9. Take part in the fire fighting, if situation so demands.

Functions of Team members

1. Be available at their work stations.
2. Note down the fire call details in the prescribed format.
3. Quickly respond and rush to the scene of emergency.
4. Report their team leader / senior person at site.
5. Know, understand and follow safe use of fire fighting equipment.
6. Use fire-fighting equipment properly.
7. Use appropriate PPE.
8. First priority would be given to save lives by rescuing people.

(iii) Medical Team

Leader of the team is Chief Medical Officer. The following medical arrangements should be made by the CMO and his team. The assistance of trained first-aiders would be taken in handling the victims.

Functions of Team members

1. Rush to the site with stretchers, Ambulance, first aid equipment"s and trained first aid persons.
2. Depute the trained first aid persons in dispensary.

excavation & required for the emergency.

8. Keep workshops / facilities open with necessary personnel throughout emergency to cater any need for repairs of additional equipment.
9. Make arrangements of temporary lighting / emergency lighting for affected areas, shelters and other places of assembly.
10. Know and understand Operating Procedures for controlling or shutting down various operations through regular training programs.
11. Ensure that the team members also know and understand the Operating Procedures.
12. Guide the team in efficiently controlling/shutting down the operations in consultation with WIC.
13. Keep the contact details of all the team members handy, especially for any specific operation vis-a-vis persons, so that they can be contacted when not on duty.
14. Ensure that sufficient number of different categories of skilled personnel is available and used for the purpose.
15. Ensure own safety and the safety of team members.

Functions of Team Members.

1. Know, understand and follow the direction of the leader.
2. Contact the other team members for any assistance/ help.
3. Arrange to restore facilities, repairs, demolition as required under the circumstances
4. Arrange shutting off supply of electricity to the affected areas if so required.
5. Use necessary equipment"s like cranes, dozers, trucks, welding and cutting set etc. as needed for tackling the emergency and make available required personnel to operate above facilities
6. Arrange civil jobs, like filling sand bags, making bunds, closing drains, excavation & required for the emergency.
7. Keep workshops / facilities open with necessary personnel throughout emergency to cater any need for repairs of additional equipment.

4. Receive the help under mutual aid members and direct such persons to the affected site.
5. Barricade the incident site and control the traffic movement
6. Know and understand traffic signs and rules to be followed during an emergency.
7. Understand and follow procedure for wearing PPE.
8. Guide the traffic as instructed by the team leader, using proper signs.
9. Curb the panic among people.

(vi) Administration Team

The role of Administration team is to provide the necessary common facilities during any disaster / emergency in the plant.

Functions of Team Members

1. Organise the transportation of personnel & equipment and relief materials.
2. Arrange for canteen services for personnel on duty as well as affected one"s like Food & refreshments etc.
3. Assess and maintain law and order situation inside the plant.
4. Arrange for temporary shelters for rehabilitation of those evacuated.
5. Arrange for help of security personnel for cordoning off the affected area, for fire fighting / rescue help and evacuation of casualties.
6. Arrange for head counts of employees, contractors, transporters and visitors.
7. Inform and assist the relatives of persons affected in emergency.
8. Keep the employees informed in township and seek their help if necessary.

(vii) Safety Team:

This team will assist WIC in management of the incident. The team would include personnel from Safety Department and Participative Safety Forums. AGM(Safety) will head the team.

Functions of Team Leader

1. Rush to the site of incident and assess the emergency situation and guide the team members accordingly.
2. Keep liaison with other tem leaders for requirement of services ifany.

On knowing the emergency the head of the Transportation team will immediately report to WIC at incident spot and take the guidance.

Functions of Team Members.

1. Taking in to possession all the plant vehicles, earth moving equipment under their control.
2. Arranging vehicles for evacuation of people from affected areas to assembly points.
3. Arranging vehicles for the officials comes to take part in emergency management activities.
4. Arranging mobile lifting equipment, earth moving equipment for emergency operations.
5. Keeping contact with travel agencies for additional vehicle requirement, if any.

18. DESIGNATED PERSON FOR MEDIA CONTACTS:

Any incident will attract the interest of the media, and a major accident is likely to involve wide spread in radio and television coverage. Unless appropriate arrangements are made, this can divert personnel from the task of handling emergency. It is essential to make arrangements for the authoritative release of information during any emergency of significant length, and a senior management member should be appointed as the sole source of information. Inquiries made to other employees should be directed to this appointed person. AGM(HR) has been designated as the authorized person for media contacts during On-site Emergency situations. However, he shall take complete information about the emergency and rescue operations from Chief Incident Controller before issuing the press releases/ media contacts.

19. RESPONSIBILITY OF CORPORATE CENTRE

Responsibilities of Chairman & Managing Director (CMD):

Upon receipt of information regarding occurrence, CMD shall constitute the Corporate Crisis Management Group with Director (Operations) as the Coordinator and Director (HR) and Executive Director (CP) as permanent members another two members can be co-opted by Director (Operations) depending on the type of emergency. The Crisis

20. OUTSIDE ORGANISATIONS TO ASSIST DURING EMERGENCY AND PROTOCOLSFOR LIAISONING

To further strengthen the external resources, NKSTPP may take mutual aid from CCL which operated its coal mining operations nearby.

For Medical assistance, the company may take the services of Hospitals at Ranchi

a. Medanta Hospital, Ranchi
b. Medica Hospital, Ranchi
c. Centavita Hospital, Ranchi
d. Orchid Hospital, Ranchi

21. COMMUNICATION AND SEQUENCE OF ACTIONS DURING AN EMERGENCY

The Action Plan for effective communication and sequence of actions during and after an emergency consists of:

a. First Information & Assessment of emergency.
b. Responsibilities for Declaration of Emergency.
c. Responsibility for All Clear Signal.

First Information:

The first person who observes/identifies the hazardous incident shall inform by telephone or by any other means, communicates to the EIC about the incident. In case, the information is received by Fire Station, In-charge of Fire Station Control room shall inform to ED(NK) about the incident before the fire team proceeds to the site of emergency.

Responsibility for Declaration of Major Emergency:

The Works Incident Controller or the EIC (incase WIC is not in the plant premises) on hearing the hazardous incident shall go to the scene of the incident, make an informal assessment of the situation and decide whether a major emergency exists or is likely to develop and inform the same to CIC. Based on the advice of WIC or EIC, the Chief Incident Controller (CIC) declares a Major Emergency and instructs to blow the emergency siren.

3.	ALL CLEAR SIGNAL	CONTINUOUS SIREN FOR THREE MINUTES (ONLY ONCE)

23. COMMUNICATION PROCEDURES

Procedure of Communication about Emergency to CIC, WIC, Heads and members of DMP Teams:

Communication to	Responsibility	Message of Communication / what is to be communicated	Communication channel
CIC, WIC	EIC	Details as per Incident Information Summary Form & findings of initial assessment of the emergency by him.	Mobile Phone
Heads of DMP Teams	WIC	As mentioned above.	Mobile Phone
Members of DMP Teams	Head of DMP Team concern	Briefing the emergency and asking to rush to the site with requisite PPEs and facilities to accomplish defined tasks in the action plan.	Mobile Phone / SMS

Procedure of Communication to All employees in the Plant:

Communication to	Responsibility	Communication channel
All employees inside the Plant	GM(Project)	PA system
Essential Staff	EIC	Mobile / Intercom Phone Or PA System

Procedure of Communication to Corp. Centre, External Services, District Administration and likely affected Villages:

c. Ensure manning of Fire Water Pump house to start the hydrant pumps / maintaining the water pressure and to start additional pumps, if needed.

d. Ensure isolation of all electrical power supplies in the affected area.

e. Depending upon the extent of fire, additional fire crew / accessories turnouts to be called in.

f. Arrange to call all „Off-duty" fire staff to report for firefighting operations.

g. Establish co-ordination with external fire brigades called in.

h. The instructions given in the Fire Orders of NTPC North Karanpura Unit shall be followed.

General precautions:

i. Evacuate and cordon off the affected area. Entry to the authorized personnel only should be permitted.

ii. Suitable breathing apparatus must be used wherever necessary.

iii. Fire proximity suits, water gel blankets must be used where ever required.

iv. While carrying out firefighting operations, safety of the persons / plant buildings/ equipments should be borne in mind.

Fire in Hydrogen generation plant:

There is a possibility of fire in the storage room due to hydrogen leakage from filled cylinders. Since the hydrogen fire is invisible, severe heat radiation and subsequent fire in the storage room may take place if the leak is not noticed and arrested in time.

System Safety: The storage room is well ventilated and vents provided on the top of the roof to easy dispersion of hydrogen gas. However to prevent any untoward incidents, the following precautions are taken.

i. All electrical equipment and lighting fixtures are explosion poof in the entire plant.

ii. Hydrogen gas sensors/leak detectors are provided in the cylinder storage area.

iii. A detailed LMI is in practice.

iv. Strict use of non sparking tools.

v. Availability of Fire Hydrant water system & portable fire extinguishers in the plant.

vi. Prohibition of use of mobiles, radios, etc. in side the plant.

vii. Prohibition of entry of unauthorized persons in the storage location and posting of security guard.

etc., clear for fire fighting operations.

b. Start rescue and fire fighting operation immediately as deemed fit for the extent of fire.

c. Start all fixed fire fighting systems manually if they are not operated automatically.

d. Ensure manning of Fire Water Pump house to start the hydrant pumps / maintaining the water pressure and to start additional pumps, if needed.

e. Depending upon the extent of fire, decide whether to shutdown the plant or part of the plant.

f. Ensure isolation of all electrical power supplies in the affected area.

g. Seek for additional fire crew / „Off-duty" fire staff turnouts, if found necessary.

h. Establish co-ordination with external fire brigades, if called in.

i. The instructions given in the Fire Orders of NTPC North Karanpura Unit shall be followed.

General precautions:

i. Evacuate and cordon off the affected area. Entry to the authorized personnel only should be permitted.

ii. Fire proximity suits, water gel blankets must be used wherever required.

iii. While carrying out fire fighting operations, safety of the persons / plant buildings/ equipment should be borne in mind.

Fire in Cable Galleries

The main hazard in cable galleries is fire due to over heating of cables, short circuits, etc. To prevent chance of fire origination in the cables, all the cables used in the North Karanpura are of Fire Retardant & Low Smoke (FRLS) type.

System Safety: To prevent further chances of fire in the cable galleries the following systems have been adopted in North Karanpura.

i. Zoning of cable gallery and fireproof sealing between zones, cable entries/intersections and intermittent places on cable trays, cable raisers and cable entry points.

ii. Providing Smoke detectors, flame sensors (linear heat sensing cables, quartzite bulbs).

iii. Automatic MV Water spray system.

System Safety: All switchgears are well designed to prevent chances of flash-over or fire. In addition, to take care of the above problems, the following precautions are taken.

i. Plugging of cable gland plates and breaker inspection plates against reptile entry.

ii. Periodical inspection/testing of switch gear equipment.

iii. Providing proper nomenclature of switchgear equipment with regards to voltage level, feeder description and panel numbering to avoid wrong identification.

iv. Standard Operating procedures are prepared and followed in Operation and Maintenance of the switchgears.

Response Procedure:

a. Evacuate all non-essential workers from the area and keep all passages, doors etc., clear for fire fighting operations.

b. Start rescue and fire fighting operation immediately as deemed fit for the extent of fire.

25. EXPLOSION:

(a) Explosion in Hydrogen Generation Plant:

Explosion in H2 Plant and Cylinder storage room is only possible in case of total failure of entire protection system or due an illicit act/sabotage.

System Safety: The plant is well designed to prevent any chance of explosion. However to prevent any untoward incidents, the following measures have been adopted.

i. The protection system of H2 Plant is designed such that at 20% of lower explosive limit it gives alarm and at 40% of lower explosive limit the plant trips automatically.

ii. Gas purity will be monitored continuously and if the purity is less than 99%, the gas will be vented out to the atmosphere and the plant will be shut down automatically. However the purity of H2 gas is maintained 99.8%.

iii. Hydrogen gas sensors are provided in the plant and cylinder storage area which are interlocked to the plant tripping system.

iv. A detailed LMI is in practice.

v. All electrical equipment including lighting fixtures are explosion poof in the entire plant.

System Safety: the generator is designed to withstand explosion. Seal oil system is also provided for the generator to prevent the leakage of H_2 gas. And also the H_2 gas purity is continuously monitored and maintained always above 99%. All the H_2 cylinders are checked for high purity.

(f) Transformer Fire & Explosion:

The possibility of Fire & Explosion hazards in transformers are due to;

- Failure of terminal bushings and flash-over.
- Sudden gas pressure formation due to transformer internal faults and subsequent failure of explosion vents and pressure release devices may cause explosion of transformer and fires.
- Accumulated leakage of oil from different parts of transformers and spurious sparking nearby.

System Safety: All the transformers are provided with adequate inbuilt and external protection systems and monitoring devices. However to control the fire, the following measures have been adopted.

- Emulsifier system with deluge valve and fire detection devices on all transformers having capacity more than 16 MVA.
- Oil soaking pits with gravel fill beneath all the transformers.
- Fire Separation walls between transformers.
- Adequate number of Fire extinguishers.

Response Procedure:

a) Isolate transformer from both sides, if it is not automatically de-energized.
b) Stop forced oil circulating pump and forced air-cooling fans in service, wherever provided.
c) Use water spray to cool the hot part, wherever provided.
d) If oil has splashed out of transformer and also has caught fire, use only foam to extinguish fire. Do not use water.

Note : Water should not be sprayed on the leaking tank / pipeline.

Response Procedure in case of release of Ammonia Solution from the carboys / if leakage is from a Storage Tank:

Any leakage from the storage tanks will be collected in the dyke provided, from where it will be recovered, if possible, and water flushed subsequently. Non-key personnel should be kept away.

27. Medical (Handling of multiple injuries):

In the event of major emergency like Hydrogen Gas explosion (either at H2 Plant or at TG building) or major fire in FOPH, there would be multiple injuries / multiple casualties. In such cases, the entire Medical Team arrives immediately at the site of emergency and put up Medical camp at a safer location with beds, stretchers and all necessary medical aids. External medical help shall be called for including the voluntary organization like Red Cross, medical staff from mutual aid organizations and near by hospitals.

On receipt of victims, the medical team shall prioritize according the seriousness, hopes of survival, type of injury etc., and start treatment or first aid and if necessary refer the cases to empaneled hospitals with a prior intimation/ briefing of case history along with a medical attendant.

Company Ambulances and ambulances of mutual aid organizations or of near by hospitals & other organizations shall be utilized for shifting of casualties.

All the first aiders (employees of the company) who got First aid training shall assist the medical team in such eventual situations.

28. Utility failure procedures:

In case of any Emergency, if the power fails, it would affect the emergency operations at large. Diesel Generator are available in the plant to cater for power needs in the event of any emergency.

29. CYCLONE POSING SERVERE THREAT – MEASURES TO BE TAKEN:

a) Suspending all works at height.
b) Possibility of suspending operations /processes which are water/moisture sensitive shall be seriously considered.
c) Protection from flying of roof sheets due to gales.
d) Storm water drains shall be attended immediately to avoid clogging of drains.

If possible, a periodical SMS about the safety of the workers in the factory to their family members may be arranged to keep them at ease and it shall go a long way in keeping the workers with peace and to make them concentrate on their job.

q) Special care shall be taken in preventing workers who come drenched & Workers may be advised to come with spare cloths fully packed and protected from becoming wet. Extra towels shall also be kept available.

r) Medical officer shall be remained in the plant if possible or at least a trained first aider shall remain in the plant till the normalcy is restored.

s) All essential employees shall be alerted in this regard and going on leave shall be discouraged during this cyclone period.

t) Emergency preparedness shall cross checked and necessary protective gear like adequate rain coats, torch lights of suitable type etc shall be made available

u) All important telephone numbers shall be kept handy and they shall be cross checked about their correctness as well as continuity. They shall be updated if changes are found.

v) Fire fighting systems shall be checked and adequate quantity of foam shall be kept ready.

w) Special care shall be taken while continuing/restarting the work after the cyclone with reference to condition of plant roads (other than black top), outdoor equipment especially the electrically connected, movement of heavy loads/vehicles, work at heights etc. Works of this nature shall be taken up only after satisfying suitability by the safety department or the by responsible concerned person as the case may be.

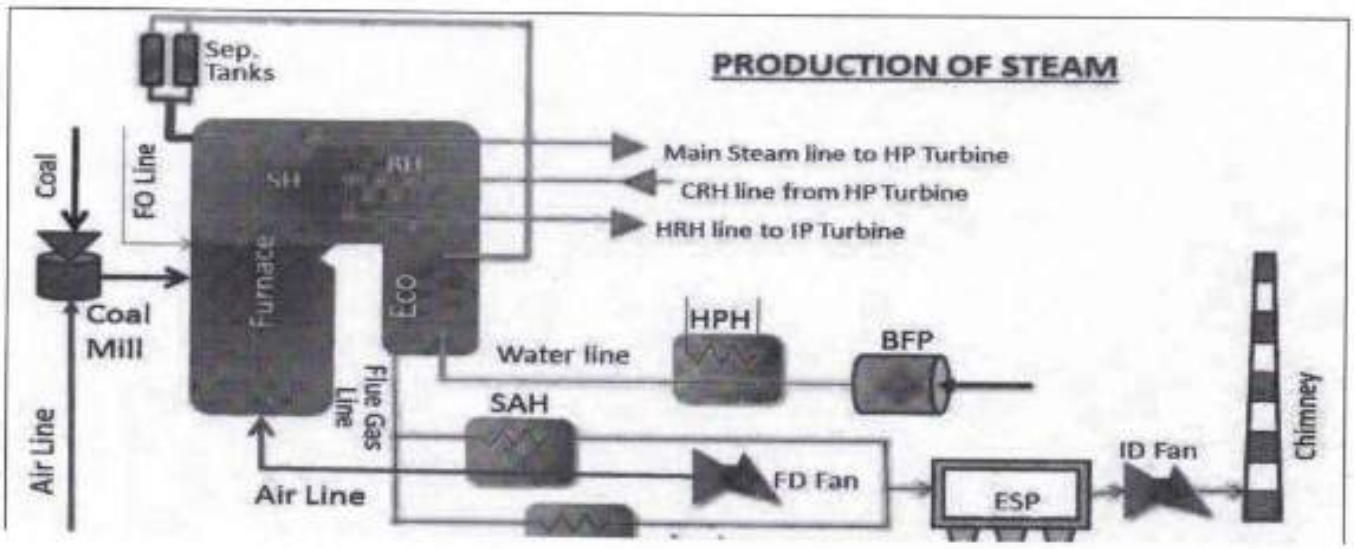
30. ASSEMBLY POINTS, EVACUATION AND HEAD COUNT

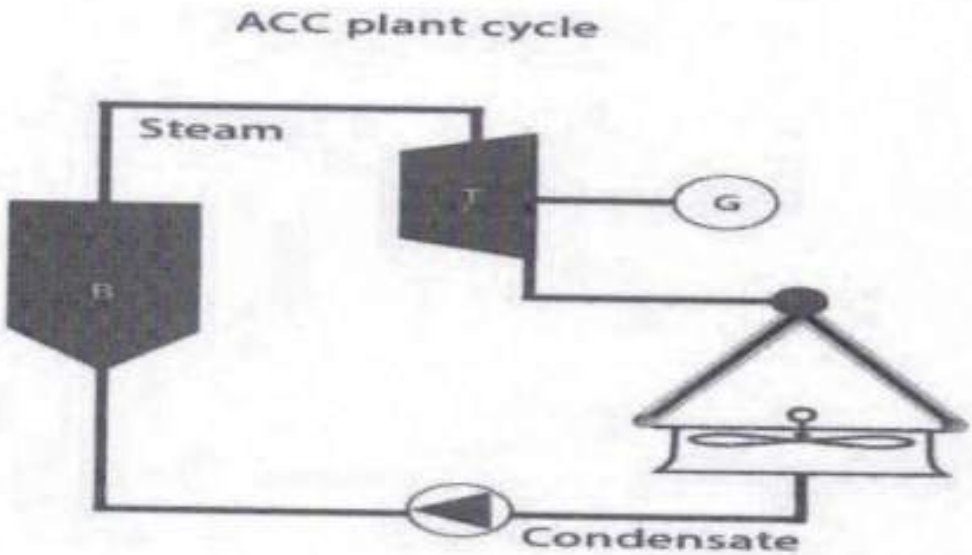
Evacuation & Assembly Points:

In case of emergency, the non essential personnel should be evacuated from the incident area and also from adjacent areas. Evacuation should be to a predetermined assembly point in a safe part of the works.

The persons, those are not part of immediate response teams, would evacuate their work area and report at the designated Assembly Point. The decision to evacuate the work area will be taken by CIC after getting feedback from the WIC/Shift In-charge. Evacuating visitors would be the responsibility of the concerned officer. Department Head should take care to evacuate any handicapped person in his area.

Annexure-1 Process Flow Diagram





ANNEXURE-2 DISASTER MANAGEMENT TEAMS

SUPPORT TEAM TO CIC

Ajay Kumar	Shukla	GM (O&M)	O & M	9471001071
Subhasis	Bose	GM(PROJ CONST)	PROJ CONST	9650996897
Brij Raj	Prasoon	AGM(TS)	TS	9650990017
Swarup	Khan	SR. MANAGER (CHEMISTRY)	CHEMISTRY	9650997461
Rajeev	Tripathi	AGM(ELECT ERECT)	ELECT ERECT	7522002825
A.K	Agarwal	AGM(Safety)	SAFETY	7054757778

TECHNICAL RESPONSE TEAM

Ajay Kumar	Shukla	GM (O&M)	O & M	9471001071
Rajeev	Tripathi	AGM(ELECT ERECT)	ELECT ERECT	7522002825
Jayesh S	Chaudhari	DGM (FQA)	FQA	9925503881
Dipak Kumar	Dalei	AGM(C & I ERECT)	C & I ERECT	9437964101
N.D	Pandey	AGM(CIVIL CONST)	CIVIL CONST	7349608575

FIRE FIGHTING TEAM

		AC (CISF)		9264443340
		FIRE INSPECTOR, CISF		9264443351
U.K	Mukherjee	SR. MANAGER (MAINT. PLNG.)	MAINT. PLNG.	9434047525
Uday	Kumar	AGM (MECH ERECT)	MECH ERECT	9471001324
Prashant	Soni	SR.MANAGER(P & S)	P & S	9425219116

MEDICAL TEAM

Shankar Sheo	Prasad	CHIEF MEDICAL OFFICER	MEDICAL	9434084523
Baby	Sarkar	SMO (MEDICAL)	MEDICAL	8004948305
Ade	Ashok	AMO (MEDICAL)	MEDICAL	9491172122
V.L.N	Saikiran	AMO (MEDICAL)	MEDICAL	9844745343
Gaurav	Sharma	AMO (MEDICAL)	MEDICAL	7300874471
Anil	Kumar	ASST. OFFICER (MEDICAL)	MEDICAL	8004948065

MAINTENANCE TEAM

Mukul	Rai	AGM (MECH MAINT.)	MAINT.	7458012805
Rajeev	Verma	AGM (IT)	IT	9650995009
Anil Kumar	Chawla	AGM(HR)	HR	9650701354
Sachin	Kumar	DGM (ELECT ERECT)	ELECT ERECT	9471003376
Lal Babu	Sharma	DGM (Maint)	Off. Site Maint	9473196778

ADMINISTRATIVE TEAM

Rajeev	Verma	AGM (IT)	IT	9650995009
Uday	Kumar	AGM (MECH ERECT)	MECH ERECT	9471001324
Anil Kumar	Chawla	AGM(HR)	HR	9650701354
Dharmendra	Singh	AGM (OPERATION.)	OPERATION.	9650998599
N.D	Pandey	AGM(CIVIL CONST)	CIVIL CONST	7349608575

SAFETY TEAM

Ajay Kumar	Agarwal	AGM(Safety)	SAFETY	7054757778
Prince	Kumar	DY. MANAGER(SAFETY	SAFETY	9065519283
Prashant	Soni	SR.MANAGER(P & S)	P & S	9425219116

COMMUNICATION TEAM

Rajeev	Verma	AGM (IT)	IT	9650995009
Ajay	Chadha	DGM (IT)	IT	9650990882
Rahul	Prakash	SR.MANAGER(IT)	IT	9406712435
Sunny	Seth	SR.MANAGER(HR)	HR	9425570890

TRANSPORTATION TEAM

Neeraj	Bharati	DGM(MECH ERECT)	MECH ERECT	7389942202
Anil Binit	Lakra	DGM(MECH ERECT)	MECH ERECT	9425178269
Anil Kumar	Chawla	AGM(HR)	R & R	9650701354
Ananjan	Bhunia	MANAGER(HR)	HR	9434075924

SECURITY & TRAFFIC CONTROL TEAM

		AC, CISF		9264443340
		INSPECTOR,CISF		9264443341
		CISF CR		9264443342
Abhishek	Anand	SR.MANAGER(HR)	HR	9425281005
Sita Ram	Munda	ASST. MANAGER(SAFETY)	Safety	9473196353
Dheeraj	Gupta	DGM (HR)	HR	9650995877

Annexure-4

Check of Earthing Pit

Sl. No.	Date of Examination	Agency / Person	Measured Resistance	Allowable Resistance	Steps Taken	Next Due Date of Examination	Remarks

Annexure-6

First Aid Fire Fighting Equipment

Sl. No.	Make	Equipment No.	Class of fire	Capacity	Date of Refill	Date of Expiry	Location of Installation	Date of Last Onspection	Remarks	Signature of Manager

Annexure-8

Safety and personnel protective appliances

1. Portable Generator
2. Flood Light / search light
3. Light extension ladder
4. Ropes (manila) / Safety belts
5. Spanner set
6. Rope ladder
7. Bolt cutter
8. Insulated fire axe
9. Fire hose
10. Helmets
11. Emergency torches
12. Fire suit
13. Public address system
14. First aid kit
15. Stretches

Annexure-10

Record of Accidents

Sl. No.	Date & Time of Accident	No. of Persons		No. & Nature of Accident		Date of Reporting to Factory Inspector	Period of Injury		Remarks	Signature of Manager
		Injured	Killed	Place	Description		Date of Return	Absent(days)		

1. PRODUCT IDENTIFICATION

Product Name: Sodium hydroxide (NaOH) / Caustic Soda CAS#: 1310-73-2
Physical State: **Thick** Liquid, Colorless
Odor: Odorless

2. HAZARDS IDENTIFICATION

Emergency Overview: DANGER! Very hazardous in case of skin contact (corrosive, irritant, permeator) of eye contact (irritant, corrosive), of ingestion, of inhalation.

Safety Ratings: Health: 3, Severe — Reactivity: 2, Slight
Flammability: 0, None — Contact: 4, Extreme

OSHA Regulatory Status: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Acute Health Effects: **Routes of Exposure Inhalation, Ingestion, skin contact, eye contact**

Exposure Limits: ACGIH: Ceiling: 2
ppm OSHA: Ceiling: 2
ppm

Personal Protective Equipment:
Eye/Face Protection: Wear safety glasses with side shields or goggles and a face shield.
Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.
Respiratory Protection: Chemical respirator.

3. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Get medical attention immediately.

Ingestion: Do not induce vomiting. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION IMMEDIATELY.

Skin Contact: Flush affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attentionimmediately.

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

4. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away. Keep upwind. Keep out of lowareas. Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing.

Methods for Containment: Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, Basements or confined areas. Dike the spilled material, where this is possible.

Methods for Cleaning Up: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, fleece), and place in a suitable non-combustible container for reclamation or disposal. Neutralize spill area and washings with acetic acid. Never return spills in original containers for re-use.
Clean up in accordance with all applicable regulations.

5. HANDLING AND STORAGE

Handling: Wear personal protective equipment. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, smoke, or drink.

Storage: Store in a cool, dry, ventilated area away from incompatible materials. Store in original container. Keep containers tightly closed and upright. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

1. PRODUCT IDENTIFICATION

Product Name: Ammonium Hydroxide / Aqueous ammonia; Ammonia aqueous CAS#: 1336-21-6
Physical State: Liquid, Color less
Odor: Irritable odor

2. HAZARDS IDENTIFICATION

Emergency Overview: DANGER! Corrosive. Causes severe skin, eye, and digestive tract burns. Harmful if swallowed. Mist or vapor extremely irritating to eyes and respiratory tract.

Safety Ratings: Health: 2 , Moderate Reactivity: 1, Slight
Flammability: 1 , Slight Contact: 4, Extreme

OSHA Regulatory Status: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Acute Health Effects: **Routes of Exposure: Inhalation, Ingestion, skin contact, eye contact**

Exposure Limits: ACGIH: Ceiling: 25 ppm
OSHA: Ceiling: 50ppm

Personal Protective Equipment:
Eye/Face Protection: Wear chemical safety goggles and a face shield.
Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves
Respiratory Protection: Chemical respirator

3. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Get medical attentionimmediately.

Ingestion: Do not induce vomiting. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION IMMEDIATELY.

Skin Contact: Flush affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attentionimmediately.

Eye Contact: Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

4. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away. Keep upwind. Keep out of lowareas. Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing.

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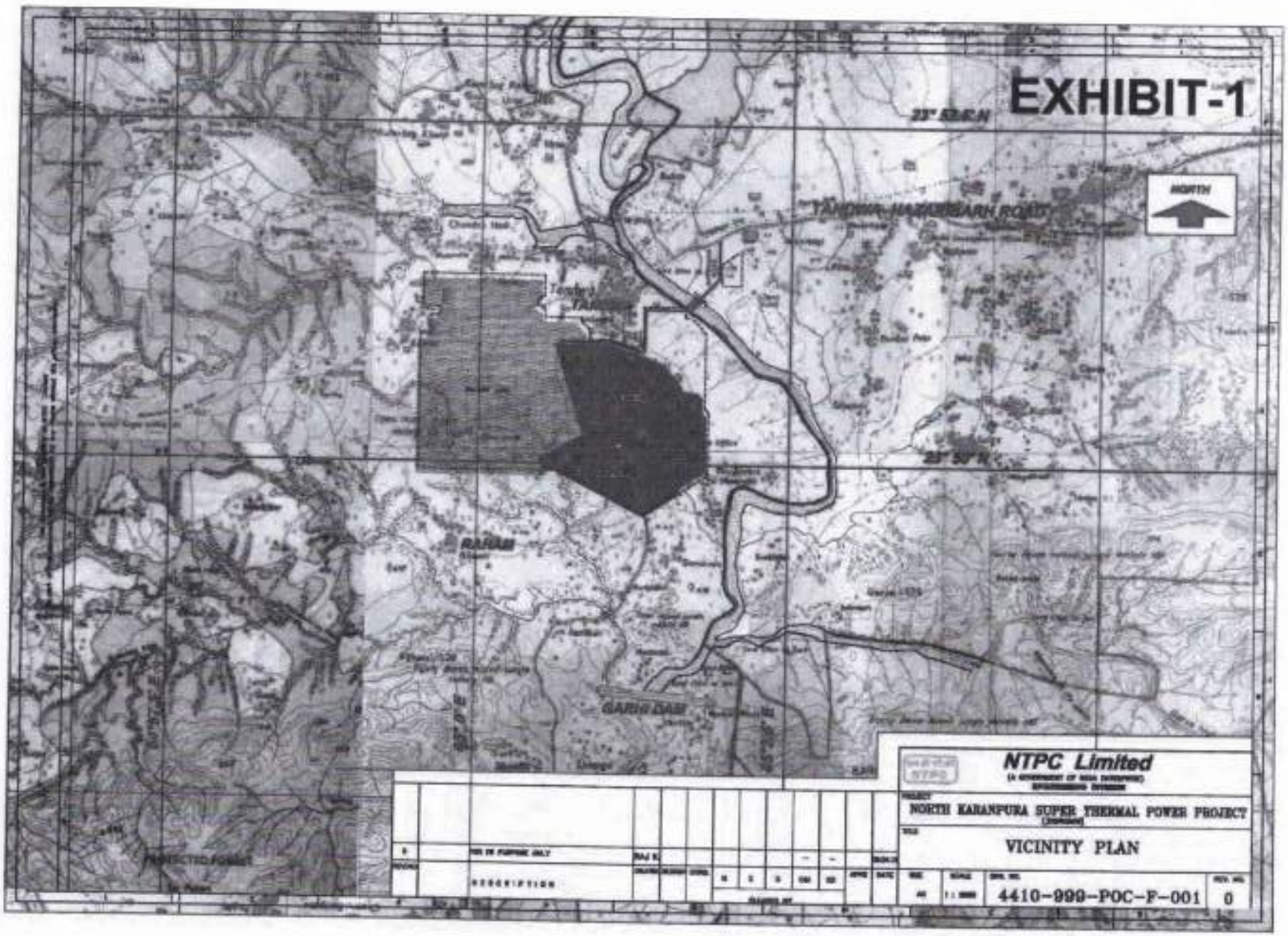
Methods for Cleaning Up: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, fleece), and place in a suitable non-combustible container for reclamation or disposal. Neutralize spill area and washings with acetic acid. Never return spills in original containers forre-use.
Clean up in accordance with all applicable regulations.

5. HANDLING AND STORAGE

Handling: Wear personal protective equipment. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, smoke, or drink.

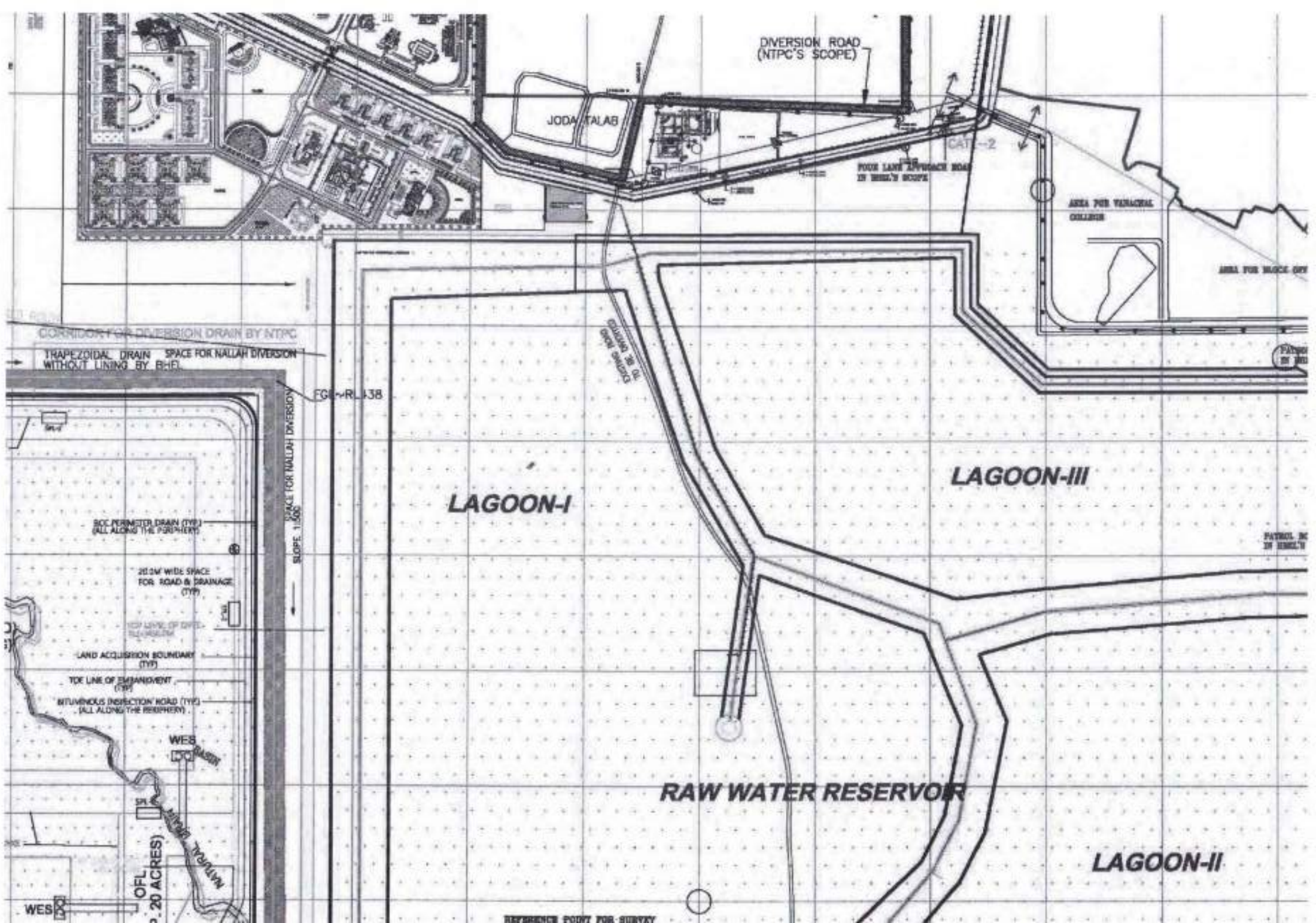
Storage: Store in a cool, dry, ventilated area away from incompatible materials. Store in original container. Keep containers tightly closed and upright. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Annexure-12 VICINITY PLAN



DETAILS OF FIRST AID TRAINED STAFF

SL. NO	NAME	DESIGNATION	MOBILE	AGENCY
1	SURESH TUDU	MEDICAL ATTENDANT	9122365435	GVK EMRI
2	CHANDAN KUMAR	MEDICAL ATTENDANT	8210775985	GVK EMRI
3	SLMAN ALI	MEDICAL ATTENDANT	6205886024	GVK EMRI
4	MUDIT BAJPAI	EMT	7518088817	GVK EMRI
5	SUNIL SINGH	EMT	7054312760	GVK EMRI
6	RAVI KUMAR	EMT	9102499418	GVK EMRI
7	RAVI KUMAR	EMT	9671489938	GVK EMRI
8	OM PRAKASH	EMT	9835139483	GVK EMRI
9	VIRENDRA KUMAR	EMT	9102255848	GVK EMRI
10	ABHIRAM BANKIRA	DRESSER	7479597041	UPL
11	BHUNESHWAR KUMAR	DRESSER	6200202508	UPL
12	SAROJ KUMAR	DRESSER	7739545655	UPL


DIVERSION ROAD
(NTPC'S SCOPE)
JODA TALAB
CAT-2
FOUR LANE APPROACH ROAD
IN BHEL'S SCOPE
AREA FOR PARADISE
COLLEGE
CORRIDOR FOR DIVERSION DRAIN BY NTPC
TRAPEZOIDAL DRAIN
WITHOUT LINING BY BHEL
SPACE FOR NALLAH DIVERSION
FGL~RL 438
SLOPE 1:500
LAGOON-I
LAGOON-III
LAGOON-II
RAW WATER RESERVOIR
SCC PERIMETER DRAIN (TYP.)
(ALL ALONG THE PERIPHERY)
20.0M WIDE SPACE
FOR ROAD & DRAINAGE
(TYP)
LAND ACQUISITION BOUNDARY
(TYP)
TOE LINE OF EMBANKMENT
(TYP)
BITUMINOUS INSPECTION ROAD (TYP.)
(ALL ALONG THE PERIPHERY)
WES
NATURAL DRAIN
OFL
(20 ACRES)
REFERENCE POINT FOR SURVEY

Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-016	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.10.2025	
Location of Sampling	ETS Plant	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 21.10.2025	
Date of Reporting	21.10.2025	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.59	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	156	APHA 2540D 24th Edition, 2023
3	COD	mg/L	240	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	61.5	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	16.8	IS:3025Part34
6	Total Nitrogen	m3/h	22.6	IS:3025Part34
7	Fecal Coliform	MPN/100 ml	820	IS1622:1981

EndofReport*

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited

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Tel No. 0172 - 5064827,- 5064830

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Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-017	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.10.2025	
Location of Sampling	ETS Plant	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 21.10.2025	
Date of Reporting	21.10.2025	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.66	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	18	APHA 2540D 24th Edition, 2023
3	COD	mg/L	32	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	9.3	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	7.2	IS:3025Part34
6	Total Nitrogen	mg/L	11.8	IS:3025Part34
7	Fecal Coliform	MPN/100 ml	160	IS1622:1981

Authorised by

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TEST REPORT

LAB NO.	131025N-E-018	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing, Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative.	
Date of Sampling	11.10.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 21.10.2025	
Date of Reporting	21.10.2025	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.63	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	135	APHA 2540D 24th Edition, 2023
3	COD	mg/L	312	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	64.7	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	21.6	IS:3025Part34
6	Total Nitrogen	m3/h	29.2	IS:3025Part34
7	Fecal Coliform	MPN/100 ml	1050	IS1622:1981

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TEST REPORT

LAB NO.	131025N-E-019	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.10.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 21.10.2025	
Date of Reporting	21.10.2025	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.72	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	15	APHA 2540D 24th Edition, 2023
3	COD	mg/L	40	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	8.3	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	6.4	IS:3025Part34
6	Total Nitrogen	mg/L	13.1	IS:3025Part34
7	Fecal Coliform	MPN/100 ml	250	IS1622:1981

EndofReport*

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-426	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing,Markings	Plastic Can5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	08.11.2025	
Location of Sampling	ETS Plant	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 20.11.2025	
Date of Reporting	20.11.2025	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.64	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	160	APHA 2540D 24th Edition, 2023
3	COD	mg/L	236	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	62.1	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	16.7	IS:3025 Part 34
6	Total Nitrogen	m3/h	22.3	IS:3025 Part 34
7	Fecal Coliform	MPN/100ml	825	IS1622:1981

EndofReport

Authorised by 20/11/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-427	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing, Markings	Plastic Can5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	08.11.2025	
Location of Sampling	ETS Plant	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 20.11.2025	
Date of Reporting	20.11.2025	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.65	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	20	APHA 2540D 24th Edition, 2023
3	COD	mg/L	35	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	9.1	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	7.5	IS:3025 Part 34
6	Total Nitrogen	mg/L	11.5	IS:3025 Part 34
7	Fecal Coliform	MPN/100ml	157	IS1622:1981

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Authorised by 20/11/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	111125N-E-428	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing, Markings	Plastic Can5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	08.11.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 20.11.2025	
Date of Reporting	20.11.2025	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.65	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	140	APHA 2540D 24th Edition, 2023
3	COD	mg/L	308	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	64	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	21.2	IS:3025 Part 34
6	Total Nitrogen	m3/h	29.8	IS:3025 Part 34
7	Fecal Collform	MPN/100ml	1012	IS1622:1981

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TEST REPORT

LAB NO.	11112SN-E-429	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	08.11.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	11.11.2025	
Period of Analysis	11.11.2025 to 20.11.2025	
Date of Reporting	20.11.2025	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.68	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	17	APHA 2540D 24th Edition, 2023
3	COD	mg/L	45	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	8.5	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	6.8	IS:3025 Part 34
6	Total Nitrogen	mg/L	13.5	IS:3025 Part 34
7	Fecal Coliform	MPN/100ml	241	IS1622:1981

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Authorised by 20/11/25

Reviewed by 20/11/25

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TEST REPORT

LAB NO.	221225N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	ETS Plant	
Date of Receiving of sample	22.12.2025	
Period of Analysis	22.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	----	6.57	APHA 4500H+B 24th Edition,2023
2	Total Suspended Solid	mg/L	152	APHA 2540D 24th Edition,2023
3	COD	mg/L	212	CPCB Guide Manual: Water& waste waterAnalysis
4	BOD	mg/L	59.7	CPCB Guide Manual: Water& waste waterAnalysis
5	NH4-N	mg/L	17.3	IS:3025 Part 34
6	Total Nitrogen	m3/h	21.9	IS:3025 Part 34
7	Fecal Coliform	MPN/100ml	850	IS: 1622:1981

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TEST REPORT

LAB NO.	221225N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	ETS Plant	
Date of Receiving of sample	22.12.2025	
Period of Analysis	22.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.76	APHA 4500H+B 24th Edition,2023
2	Total Suspended Solid	mg/L	19	APHA 2540D 24th Edition,2023
3	COD	mg/L	32	CPCB Guide Manual: Water& waste waterAnalysis
4	BOD	mg/L	8.8	CPCB Guide Manual: Water& waste waterAnalysis
5	NH4-N	mg/L	7.3	IS:3025 Part 34
6	Total Nitrogen	mg/L	10.8	IS:3025 Part 34
7	Fecal Coliform	MPN/100ml	150	IS: 1622:1981

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TEST REPORT

LAB NO.	221225N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	22.12.2025	
Period of Analysis	22.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.69	APHA 4500H+B 24th Edition,2023
2	Total Suspended Solid	mg/L	131	APHA 2540D 24th Edition,2023
3	COD	mg/L	284	CPCB Guide Manual: Water& waste waterAnalysis
4	BOD	mg/L	55.3	CPCB Guide Manual: Water& waste waterAnalysis
5	NH4-N	mg/L	20.7	IS:3025 Part 34
6	Total Nitrogen	m3/h	30.4	IS:3025 Part 34
7	Fecal Colliform	MPN/100ml	1060	IS: 1622:1981

EndofReport

Authorised by 30/12/25

Idma Laboratories Ltd. Digvijay Jain Asst. Tech. Manager Panchkula

Reviewed by 30/12/25

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Idma Laboratories Limited

TEST REPORT

LAB NO.	221225N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	DM Plant	
Date of Receiving of sample	22.12.2025	
Period of Analysis	22.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.72	APHA 4500H+B 24th Edition,2023
2	Total Suspended Solid	mg/L	15	APHA 2540D 24th Edition,2023
3	COD	mg/L	40	CPCB Guide Manual: Water& waste waterAnalysis
4	BOD	mg/L	9.1	CPCB Guide Manual: Water& waste waterAnalysis
5	NH4-N	mg/L	7.4	IS:3025 Part 34
6	Total Nitrogen	mg/L	12.9	IS:3025 Part 34
7	Fecal Coliform	MPN/100ml	260	IS: 1622:1981

EndofReport

Authorised by 30/12/25

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TEST REPORT

LAB NO.	160126N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing, Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.01.2026	
Location of Sampling	ETS Plant	
Date of Receiving of sample	16.01.2026	
Period of Analysis	16.01.2026 to 24.01.2026	
Date of Reporting	24.01.2026	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.45	APHA 4500H+B 24th Edition,2023
2	Total Suspended Solid	mg/L	137	APHA 254CD 24th Edition,2023
3	COD	mg/L	236	CPCB Guide Manual: Water & waste waterAnalysis
4	BOD	mg/L	61.3	CPCB Guide Manual: Water & waste waterAnalysis
5	NH4-N	mg/L	18.2	IS:3025Part34
6	Total Nitrogen	m3/h	22.6	IS:3025Part34
7	Fecal Coliform	MPN/100ml	920	IS1622:1981

EndofReport

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TEST REPORT

LAB NO.	160126N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.01.2026	
Location of Sampling	ETS Plant	
Date of Receiving of sample	16.01.2026	
Period of Analysis	16.01.2026 to 24.01.2026	
Date of Reporting	24.01.2026	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.72	APHA 4500H+B 24th Edition,2023
2	Total Suspended Solid	mg/L	15	APHA 2540D 24th Edition,2023
3	COD	mg/L	36	CPCB Guide Manual: Water & waste waterAnalysis
4	BOD	mg/L	9.4	CPCB Guide Manual: Water & waste waterAnalysis
5	NH4-N	mg/L	6.8	IS:3025Part34
6	Total Nitrogen	mg/L	11.2	IS:3025Part34
7	Fecal Coliform	MPN/100ml	200	IS1622:1981

EndofReport

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TEST REPORT

LAB NO.	160126N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.01.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	16.01.2026	
Period of Analysis	16.01.2026 to 24.01.2026	
Date of Reporting	24.01.2026	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.59	APHA 4500H+B 24th Edition,2023
2	Total Suspended Solid	mg/L	124	APHA 2540D 24th Edition,2023
3	COD	mg/L	312	CPCB Guide Manual: Water & waste waterAnalysis
4	BOD	mg/L	64.7	CPCB Guide Manual: Water & waste waterAnalysis
5	NH4-N	mg/L	21.2	IS:3025Part34
6	Total Nitrogen	m3/h	32.4	IS:3025Part34
7	Fecal Coliform	MPN/100ml	1150	IS1622:1981

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TEST REPORT

LAB NO.	160126N-E-407	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.01.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	16.01.2026	
Period of Analysis	16.01.2026 to 24.01.2026	
Date of Reporting	24.01.2026	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.84	APHA 4500H+B 24th Edition,2023
2	Total Suspended Solid	mg/L	17	APHA 2540D 24th Edition,2023
3	COD	mg/L	44	CPCB Guide Manual: Water & waste waterAnalysis
4	BOD	mg/L	8.6	CPCB Guide Manual: Water & waste waterAnalysis
5	NH4-N	mg/L	7.2	IS:3025Part34
6	Total Nitrogen	mg/L	12.5	IS:3025Part34
7	Fecal Coliform	MPN/100ml	320	IS1622:1981

End of Report

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TEST REPORT

LAB NO.	130226N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.02.2026	
Location of Sampling	ETS Plant	
Date of Receiving of sample	13.02.2026	
Period of Analysis	13.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.55	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	147	APHA 2540D 24th Edition, 2023
3	COD	mg/L	248	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	57.8	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	17.6	IS:3025 Part 34
6	Total Nitrogen	m3/h	18	IS:3025 Part 34
7	Fecal Coliform	MPN/100ml	1040	IS1622:1981

EndofReport

25/02/26

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TEST REPORT

LAB NO.	130226N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.02.2026	
Location of Sampling	ETS Plant	
Date of Receiving of sample	13.02.2026	
Period of Analysis	13.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	---	7.66	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	12	APHA 2540D 24th Edition, 2023
3	COD	mg/L	32	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	8.8	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	7.1	IS:3025 Part 34
6	Total Nitrogen	mg/L	11.8	IS:3025 Part 34
7	Fecal Coliform	MPN/100ml	250	IS1622:1981

"EndofReport"

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TEST REPORT

LAB NO.	130226N-E-403	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.02.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	13.02.2026	
Period of Analysis	13.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.48	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	132	APHA 2540D 24th Edition, 2023
3	COD	mg/L	336	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	71.8	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	20.5	IS:3025 Part 34
6	Total Nitrogen	m3/h	31.8	IS:3025 Part 34
7	Fecal Coliform	MPN/100ml	1200	IS1622:1981

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TEST REPORT

LAB NO.	130226N-E-404	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.02.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	13.02.2026	
Period of Analysis	13.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	----	7.71	APHA 4500H+B 24th Edition, 2023
2	Total Suspended Solid	mg/L	15	APHA 2540D 24th Edition, 2023
3	COD	mg/L	40	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	9.2	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	7.6	IS:3025 Part 34
6	Total Nitrogen	mg/L	12.8	IS:3025 Part 34
7	Fecal Coliform	MPN/100ml	350	IS1622:1981

EndofReport

25/02/26

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Idma Laboratories Limited

TEST REPORT

LAB NO.	170326N-E-401	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing, Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	ETS Plant	
Date of Receiving of sample	17.03.2026	
Period of Analysis	17.03.2026 to 25.03.2026	
Date of Reporting	25.03.2026	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.52	APHA4500H+B24thEdition,2023
2	Total Suspended Solid	mg/L	161	APHA2540D24thEdition,2023
3	COD	mg/L	272	CPCB Gulde Manual: Water & waste water Analysis
4	BOD	mg/L	62.7	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	18.4	IS:3025Part34
6	Total Nitrogen	m3/h	20	IS:3025Part34
7	Fecal Coliform	MPN/100ml	1160	IS1622:1981

End of Report

Reviewed by: 25/3/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

Idma Laboratories Ltd. Tech. Mgr. Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

LAB NO.	170326N-E-402	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing, Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	ETS Plant	
Date of Receiving of sample	17.03.2026	
Period of Analysis	17.03.2026 to 25.03.2026	
Date of Reporting	25.03.2026	
Sampling Protocol	APHA 24th Edition,2023	
Tosting Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	----	7.78	APHA4500H+B24thEdition,2023
2	Total Suspended Solid	mg/L	15	APHA2540D24thEdition,2023
3	COD	mg/L	40	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	9.1	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	6.8	IS:3025Part34
6	Total Nitrogen	mg/L	12	IS:3025Part34
7	Fecal Coliform	MPN/100ml	300	IS1622:1981

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

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TEST REPORT

LAB NO.	170326N-E-403	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Inlet	
Quantity	5 Litre	
Packing, Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	17.03.2026	
Period of Analysis	17.03.2026 to 25.03.2026	
Date of Reporting	25.03.2026	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.42	APHA4500H+B24thEdition,2023
2	Total Suspended Solid	mg/L	145	APHA2540D24thEdition,2023
3	COD	mg/L	356	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	77.6	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	21.2	IS:3025Part34
6	Total Nitrogen	m3/h	32.6	IS:3025Part34
7	Fecal Coliform	MPN/100ml	1140	IS1622:1981

End of Report

Reviewed by

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TEST REPORT

LAB NO.	170326N-E-404	PageNo.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	STP Outlet water	
Quantity	1	
Packing, Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	14.03.2026	
Location of Sampling	DM Plant	
Date of Receiving of sample	17.03.2026	
Period of Analysis	17.03.2026 to 25.03.2026	
Date of Reporting	25.03.2026	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.86	APHA4500H+B24thEdition,2023
2	Total Suspended Solid	mg/L	17	APHA2540D24thEdition,2023
3	COD	mg/L	36	CPCB Guide Manual: Water & waste water Analysis
4	BOD	mg/L	8.6	CPCB Guide Manual: Water & waste water Analysis
5	NH4-N	mg/L	8.2	IS:3025Part34
6	Total Nitrogen	mg/L	12.4	IS:3025Part34
7	Fecal Coliform	MPN/100ml	420	IS1622:1981

End of Report

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-013	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	ETP Inlet waste water	
Quantity	5 Litre	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.10.2025	
Location of Sampling	ETP Plant	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 21.10.2025	
Date of Reporting	21.10.2025	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.77	APHA 4500H+B 24th Edition, 2023
2	Turbidity	NTU	6	APHA 2130B 24th Edition, 2023
3	Temperature	°C	26	APHA 2550B 24th Edition, 2023
4	Total Suspended Solid	mg/L	26.8	APHA 2540D 24th Edition, 2023
5	Total Organic Carbon	mg/L	1.7	LabSOP
6	Chlorides	mg/L	265	APHA 4500Cl-B 24th Edition, 2023
7	Fluorides	mg/L	1.02	CPCB Guide Manual:Water & waste water Analysis
8	Sulphates	mg/L	162.8	APHA 4500-SO2-4E 24th Edition, 2023
9	Total Phosphate	mg/L	2.18	APHA 4500-PD 24th Edition, 2023
10	COD	mg/L	424	CPCB Guide Manual: Water & waste water Analysis
11	BOD	mg/L	65.3	CPCB Guide Manual: Water & waste water Analysis
12	Oil & Grease	mg/L	5.1	IS:3025Part39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	1516	IS:3025Part14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition, 2023

Authorised by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

EndofReport*

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	131025N-E-014	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	ETP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.10.2025	
Location of Sampling	ETP Plant	
Date of Receiving of sample	13.10.2025	
Period of Analysis	13.10.2025 to 21.10.2025	
Date of Reporting	21.10.2025	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.69	APHA 4500H+B 24th Edition, 2023
2	Turbidity	NTU	2.5	APHA 2130B 24th Edition, 2023
3	Temperature	°C	27.1	APHA 2550B 24th Edition, 2023
4	Total Suspended Solid	mg/L	24	APHA 2540D 24th Edition, 2023
5	Total Organic Carbon	mg/L	0.5	LabSOP
6	Chlorides	mg/L	80	APHA 4500Cl-B 24th Edition, 2023
7	Fluorides	mg/L	0.83	CPCB Guide Manual:Water & waste water Analysis
8	Sulphates	mg/L	86.8	APHA 4500-SO2-4E 24th Edition, 2023
9	Total Phosphate	mg/L	0.72	APHA 4500-PD 24th Edition, 2023
10	COD	mg/L	148	CPCB Guide Manual:Water & waste water Analysis
11	BOD	mg/L	19.6	CPCB Guide Manual:Water & waste water Analysis
12	Oil & Grease	mg/L	2.8	IS:3025Part39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	803	IS:3025Part14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition, 2023

EndofReport*

Authorised By

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Idma Laboratories Limited

TEST REPORT

LAB NO.		111125N-E-423	Page No.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.		4000322280-037-1019	
Type of Sample		ETP inlet waste water	
Quantity		5 Litre	
Packing,Markings		Plastic Can5 Litre.	
Mode of collection of Sample		Sampling by Laboratories	
Sample Collected by		Idma Lab Representative	
Date of Sampling		08.11.2025	
Location of Sampling		ETP Plant	
Date of Receiving of sample		11.11.2025	
Period of Analysis		11.11.2025 to 20.11.2025	
Date of Reporting		20.11.2025	
Sampling Protocol		APHA 24th Edition, 2023	
Testing Protocol		SPCB and CPCB	
S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.77	APHA 4500H+B 24th Edition, 2023
2	Turbidity	NTU	6	APHA 2130B 24th Edition, 2023
3	Temperature	°C	26	APHA 2550B 24th Edition, 2023
4	Total Suspended Solid	mg/L	26.8	APHA 2540D 24th Edition, 2023
5	Total Organic Carbon	mg/L	1.7	Lab SOP
6	Chlorides	mg/L	265	APHA 4500Cl-B 24th Edition, 2023
7	Fluorides	mg/L	1.02	CPCB Guide Manual: Water & waste water Analysis
8	Sulphates	mg/L	162.8	APHA 4500-SO2-4E 24th Edition, 2023
9	Total Phosphate	mg/L	2.18	APHA 4500-PD 24th Edition, 2023
10	COD	mg/L	424	CPCB Guide Manual:Water & waste water Analysis
11	BOD	mg/L	65.3	CPCB Guide Manual:Water & waste water Analysis
12	Oil & Grease	mg/L	5.1	IS:3025 Part 39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	1516	IS:3025 Part 14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition, 2023

EndofReport

Authorised by 20/11/25

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.		111125N-E-424		Page No.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)		
Work Order No.		4000322280-037-1019		
Type of Sample		ETP Outlet water		
Quantity		1		
Packing,Markings		Plastic Can5 Litre.		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		08.11.2025		
Location of Sampling		ETP Plant		
Date of Receiving of sample		11.11.2025		
Period of Analysis		11.11.2025 to 20.11.2025		
Date of Reporting		20.11.2025		
Sampling Protocol		APHA 24th Edition, 2023		
Testing Protocol		SPCB and CPCB		
S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.71	APHA 4500H+B 24th Edition, 2023
2	Turbidity	NTU	2.6	APHA 2130B 24th Edition, 2023
3	Temperature	°C	27	APHA 2550B 24th Edition, 2023
4	Total Suspended Solid	mg/L	24.3	APHA 2540D 24th Edition, 2023
5	Total Organic Carbon	mg/L	0.6	Lab SOP
6	Chlorides	mg/L	81	APHA 4500Cl-B 24th Edition, 2023
7	Fluorides	mg/L	0.85	CPCB Guide Manual:Water & waste water Analysis
8	Sulphates	mg/L	87.1	APHA 4500-SO2-4E 24th Edition, 2023
9	Total Phosphate	mg/L	0.75	APHA 4500-PD 24th Edition, 2023
10	COD	mg/L	152	CPCB Guide Manual:Water & waste water Analysis
11	BOD	mg/L	19.4	CPCB Guide Manual:Water & waste water Analysis
12	Oil & Grease	mg/L	2.7	IS:3025 Part 39
13	Flow	m3/h	21	LAB SOP
14	Electrical Conductivity	uS	810	IS:3025 Part 14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition, 2023

EndofReport

Authorised by 20.11.25

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	221225N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	ETP Inlet waste water	
Quantity	5 Litre	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	ETP Plant	
Date of Receiving of sample	22.12.2025	
Period of Analysis	22.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.68	APHA 4500H+B 24th Edition,2023
2	Turbidity	NTU	8	APHA 2130B 24th Edition,2023
3	Temperature	°C	23.8	APHA 2550B 24th Edition,2023
4	Total Suspended Solid	mg/L	27	APHA 2540D 24th Edition,2023
5	Total Organic Carbon	mg/L	1.5	Lab SOP
6	Chlorides	mg/l	272	APHA 4500Cl-B 24th Edition,2023
7	Fluorides	mg/L	0.96	CPCB Guide Manual: Water& waste waterAnalysis
8	Sulphates	mg/L	166.8	APHA 4500-SO2-4E 24th Edition,2023
9	Total Phosphate	mg/L	2.34	APHA 4500-PD 24th Edition,2023
10	COD	mg/L	392	CPCB Guide Manual: Water& waste waterAnalysis
11	BOD	mg/L	57.2	CPCB Guide Manual:Water& waste waterAnalysis
12	Oil & Grease	mg/L	4.6	IS:3025 Part 39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	1465	IS:3025 Part 14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition,2023

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Authorised by 30/12/25

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TEST REPORT

LAB NO.	221225N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	ETP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	20.12.2025	
Location of Sampling	ETP Plant	
Date of Receiving of sample	22.12.2025	
Period of Analysis	22.12.2025 to 30.12.2025	
Date of Reporting	30.12.2025	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.83	APHA 4500H+B 24th Edition,2023
2	Turbidity	NTU	2.5	APHA 2130B 24th Edition,2023
3	Temperature	°C	23.7	APHA 2550B 24th Edition,2023
4	Total Suspended Solid	mg/L	21	APHA 2540D 24th Edition,2023
5	Total Organic Carbon	mg/L	0.8	Lab SOP
6	Chlorides	mg/L	75	APHA 4500Cl-B 24th Edition,2023
7	Fluorides	mg/L	0.81	CPCB Guide Manual:Water& waste waterAnalysis
8	Sulphates	mg/L	90.4	APHA 4500-SO2-4E 24th Edition,2023
9	Total Phosphate	mg/L	0.68	APHA 4500-PD 24th Edition,2023
10	COD	mg/L	124	CPCB Guide Manual:Water& waste waterAnalysis
11	BOD	mg/L	18.6	CPCB Guide Manual:Water& waste waterAnalysis
12	Oil & Grease	mg/L	2.5	IS:3025 Part 39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	833	IS:3025 Part 14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition,2023

EndofReport

Authorised by 30/12/25

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 30/12/25

Idma Laboratories Ltd. Tech. Mgr. Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

LAB NO.	160126N-E-401	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	ETP Inlet waste water	
Quantity	5 Litre	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.01.2026	
Location of Sampling	ETP Plant	
Date of Receiving of sample	16.01.2026	
Period of Analysis	16.01.2026 to 24.01.2026	
Date of Reporting	24.01.2026	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.57	APHA 4500H+B 24th Edition,2023
2	Turbidity	NTU	10	APHA 2130B 24th Edition,2023
3	Temperature	°C	24	APHA 2550B 24th Edition,2023
4	Total Suspended Solid	mg/L	23	APHA 2540D 24th Edition,2023
5	Total Organic Carbon	mg/L	1.2	LabSOP
6	Chlorides	mg/L	280	APHA 4500Cl-B 24th Edition,2023
7	Fluorides	mg/L	0.89	CPCB Guide Manual: Water & waste waterAnalysis
8	Sulphates	mg/L	154.8	APHA 4500-SO2-4E 24th Edition,2023
9	Total Phosphate	mg/L	1.95	APHA 4500-PD 24th Edition,2023
10	COD	mg/L	412	CPCB Guide Manual:Water & waste waterAnalysis
11	BOD	mg/L	63.5	CPCB Guide Manual: Water & waste waterAnalysis
12	Oil & Grease	mg/L	5.7	IS:3025Part39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	1509	IS:3025Part14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition,2023

EndofReport

Authorised by

Reviewed by

Idma Laboratories Ltd. Digitally signed by Amit Tech. Manager Panchkula

Idma Laboratories Ltd. Kartar Singh Tech. Mgr. Panchkula

Idma Laboratories Limited
Idma Corporate Park,
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TEST REPORT

LAB NO.	160126N-E-402	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	ETP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	12.01.2026	
Location of Sampling	ETP Plant	
Date of Receiving of sample	16.01.2026	
Period of Analysis	16.01.2026 to 24.01.2026	
Date of Reporting	24.01.2026	
Sampling Protocol	APHA 24th Edition,2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.65	APHA 4500H+B 24th Edition,2023
2	Turbidity	NTU	2	APHA 2130B 24th Edition,2023
3	Temperature	°C	24	APHA 2550B 24th Edition,2023
4	Total Suspended Solid	mg/L	18	APHA 2540D 24th Edition,2023
5	Total Organic Carbon	mg/L	0.6	LabSOP
6	Chlorides	mg/L	70	APHA 4500Cl-B 24th Edition,2023
7	Fluorides	mg/L	0.76	CPCB Guide Manual: Water & waste waterAnalysis
8	Sulphates	mg/L	85.8	APHA 4500-SO2-4E 24th Edition,2023
9	Total Phosphate	mg/L	0.59	APHA 4500-PD 24th Edition,2023
10	COD	mg/L	116	CPCB Guide Manual: Water & waste waterAnalysis
11	BOD	mg/L	17.3	CPCB Guide Manual: Water & waste waterAnalysis
12	Oil & Grease	mg/L	2.7	IS:3025Part39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	859.5	IS:3025Part14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition,2023

EndofReport

Authorised by 24/01/26

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by 24/01/26.

Idma Laboratories Ltd. Karan Singh Tech. Mgr. Panchkula

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Idma Laboratories Limited

TEST REPORT

LAB NO.	130226N-E-405	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST-TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000922280-037-1019	
Type of Sample	ETP Inlet waste water	
Quantity	5 Litre	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.02.2026	
Location of Sampling	ETP Plant	
Date of Receiving of sample	13.02.2026	
Period of Analysis	13.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.51	APHA 4500H+B 24th Edition, 2023
2	Turbidity	NTU	8	APHA 2130B 24th Edition, 2023
3	Temperature	°C	24.5	APHA 2550B 24th Edition, 2023
4	Total Suspended Solid	mg/L	27	APHA 2540D 24th Edition, 2023
5	Total Organic Carbon	mg/L	1.4	LabSOP
6	Chlorides	mg/L	292	APHA 4500Cl-B 24th Edition, 2023
7	Fluorides	mg/L	0.94	CPCB Guide Manual:Water & waste water Analysis
8	Sulphates	mg/L	160.8	APHA 4500-SO2-4E 24th Edition, 2023
9	Total Phosphate	mg/L	2.15	APHA 4500-PD 24th Edition, 2023
10	COD	mg/L	398	CPCB Guide Manual: Water & waste water Analysis
11	BOD	mg/L	67.1	CPCB Guide Manual:Water & waste water Analysis
12	Oil & Grease	mg/L	6.4	IS:3025 Part 39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	1484	IS:3025 Part 14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition, 2023

EndofReport

Authorised By

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Reviewed by

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Idma Laboratories Limited

TEST REPORT

LAB NO.	130226N-E-406	Page No.1/1
Customer	M/s North Karanpura Super Thermal Power Project, POST- TANDWA, DISTRICT-CHATRA, Jharkhand-825321 (INDIA)	
Work Order No.	4000322280-037-1019	
Type of Sample	ETP Outlet water	
Quantity	1	
Packing,Markings	Plastic Can 5 Litre.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	11.02.2026	
Location of Sampling	ETPPlant	
Date of Receiving of sample	13.02.2026	
Period of Analysis	13.02.2026 to 25.02.2026	
Date of Reporting	25.02.2026	
Sampling Protocol	APHA 24th Edition, 2023	
Testing Protocol	SPCB and CPCB	

S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.75	APHA 4500H+B 24th Edition, 2023
2	Turbidity	NTU	1	APHA 2130B 24th Edition, 2023
3	Temperature	°C	24.5	APHA 2550B 24th Edition, 2023
4	Total Suspended Solid	mg/L	15	APHA 2540D 24th Edition, 2023
5	Total Organic Carbon	mg/L	0.4	LabSOP
6	Chlorides	mg/L	75	APHA 4500Cl-B 24th Edition, 2023
7	Fluorides	mg/L	0.68	CPCB Gulde Manual: Water & waste water Analysis
8	Sulphates	mg/L	82.4	APHA 4500-SO2-4E 24th Edition, 2023
9	Total Phosphate	mg/L	0.62	APHA 4500-PD 24th Edition, 2023
10	COD	mg/L	132	CPCB Gulde Manual: Water & waste water Analysis
11	BOD	mg/L	16.2	CPCB Gulde Manual: Water & waste water Analysis
12	Oil & Grease	mg/L	2.9	IS:3025 Part 39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	871.6	IS:3025 Part 14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition, 2023

EndofReport

25/02/26

Authorised by

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Reviewed by 25/02/26.

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Idma Laboratories Limited

TEST REPORT

LAB NO.		170326N-E-405		PageNo.1/1
Customer		M/s North Karanpurà Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)		
Work Order No.		4000322280-037-1019		
Type of Sample		ETP Inlet waste water		
Quantity		5 Litre		
Packing, Markings		Plastic Can 5 Litre.		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		14.03.2026		
Location of Sampling		ETP Plant		
Date of Receiving of sample		17.03.2026		
Period of Analysis		17.03.2026 to 25.03.2026		
Date of Reporting		25.03.2026		
Sampling Protocol		APHA 24th Edition,2023		
Testing Protocol		SPCB and CPCB		
S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	6.69	APHA4500H+B24thEdition,2023
2	Turbidity	NTU	10	APHA3130B24thEdition,2023
3	Temperature	°C	25.6	APHA2550B24thEdition,2023
4	Total Suspended Solid	mg/L	35	APHA2540D24thEdition,2023
5	Total Organic Carbon	mg/L	1.6	Lab SOP
6	Chlorides	mg/L	305	APHA4500Cl-B24thEdition,2023
7	Fluorides	mg/L	1.06	CPCB Guide Manual: Water & waste water Analysis
8	Sulphates	mg/L	175	APHA4500-SO2-4E24thEdition,2023
9	Total Phosphate	mg/L	2.21	APHA4500-PD24thEdition,2023
10	COD	mg/L	424	CPCB Guide Manual: Water & waste water Analysis
11	BOD	mg/L	73.4	CPCB Guide Manual: Water & waste water Analysis
12	Oil & Grease	mg/L	7.2	IS:3025Part39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	1516	IS:3025Part14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition,2023

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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Idma Laboratories Limited

TEST REPORT

LAB NO.		170326N-E-406		PageNo.1/1
Customer		M/s North Karanpura Super Thermal Power Project, POST-TANDWA,DISTRICT-CHATRA, Jharkhand-825321 (INDIA)		
Work Order No.		4000322280-037-1019		
Type of Sample		ETP Outlet water		
Quantity		1		
Packing, Markings		Plastic Can 5 Litre.		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		14.03.2026		
Location of Sampling		ETP Plant		
Date of Receiving of sample		17.03.2026		
Period of Analysis		17.03.2026 to 25.03.2026		
Date of Reporting		25.03.2026		
Sampling Protocol		APHA 24th Edition,2023		
Testing Protocol		SPCB and CPCB		
S.No.	Test Parameters	Units	Results	Test Method
1	pH	.....	7.95	APHA4500H+B24thEdition,2023
2	Turbidity	NTU	1	APHA2130B24thEdition,2023
3	Temperature	°C	25.5	APHA2550B24thEdition,2023
4	Total Suspended Solid	mg/L	14	APHA2540D24thEdition,2023
5	Total Organic Carbon	mg/L	0.5	Lab SOP
6	Chlorides	mg/L	82	APHA4500Cl-B24thEdition,2023
7	Fluorides	mg/L	0.76	CPCB Guide Manual: Water & waste water Analysis
8	Sulphates	mg/L	86.8	APHA4500-SO2-E24thEdition,2023
9	Total Phosphate	mg/L	0.71	APHA4500-PD24thEdition,2023
10	COD	mg/L	124	CPCB Guide Manual: Water & waste water Analysis
11	BOD	mg/L	15.3	CPCB Guide Manual: Water & waste water Analysis
12	Oil & Grease	mg/L	2.6	IS:3025Part39
13	Flow	m3/h	20	LAB SOP
14	Electrical Conductivity	uS	854.2	IS:3025Part14
15	Phenolic Compounds	mg/L	<0.001	APHA 24th Edition,2023

End of Report

Reviewed by

Idma Laboratories Ltd. Dipti Jain Asst. Tech. Manager Panchkula

Authorised by

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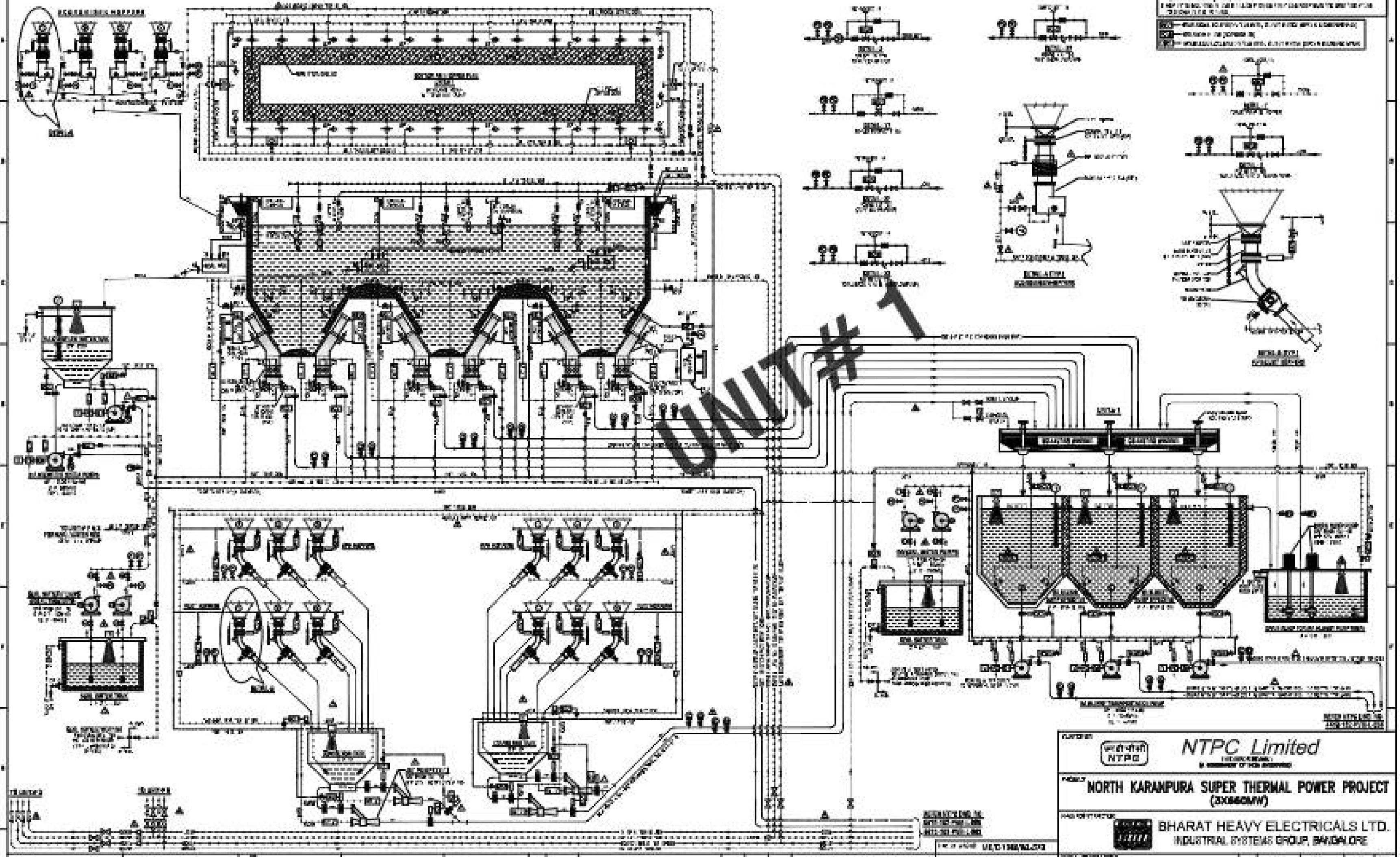
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NTPC Limited

NORTH KARANPURA SUPER THERMAL POWER PROJECT
(3X660MW)

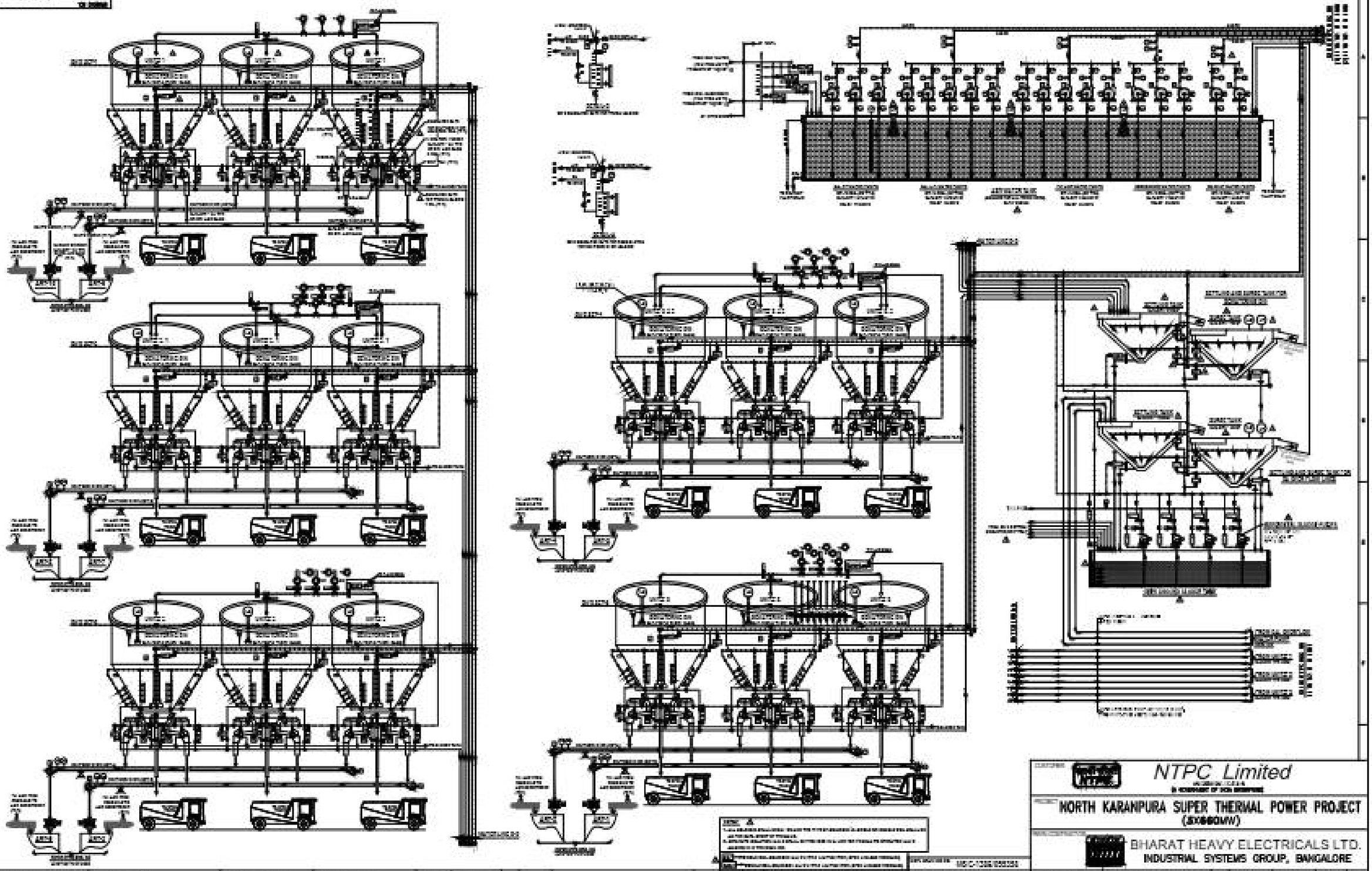
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

NAGARJUNA BEEKAY PRIVATE LIMITED
NOIDA (U.P.)

BOTTOM & ECONOMISER ASH HANDLING SYSTEM-SINGLE LINE FLOW DIAGRAM

4408-002-PVM-L001

PS-1-PL-002-102/1000



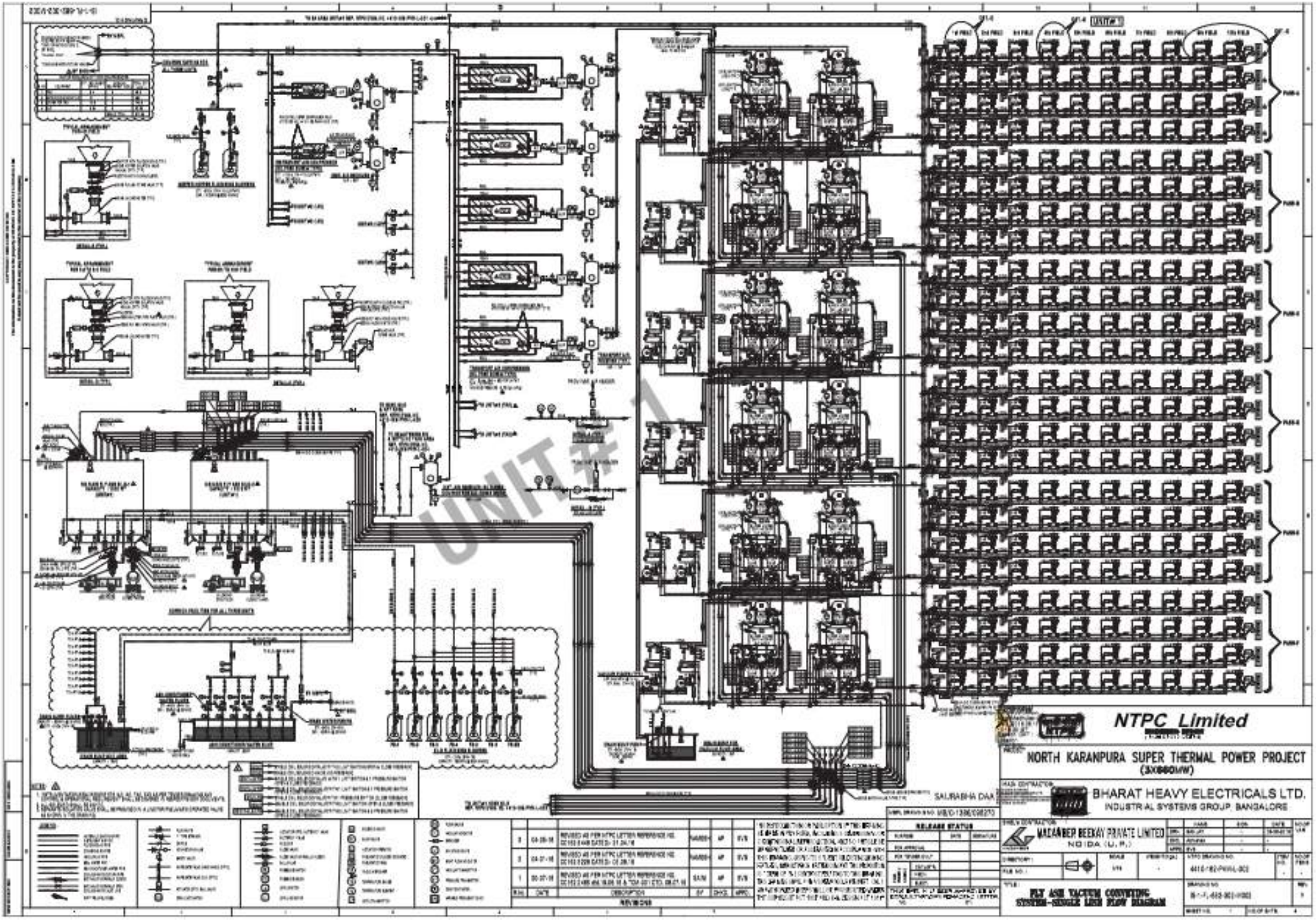
NTPC Limited

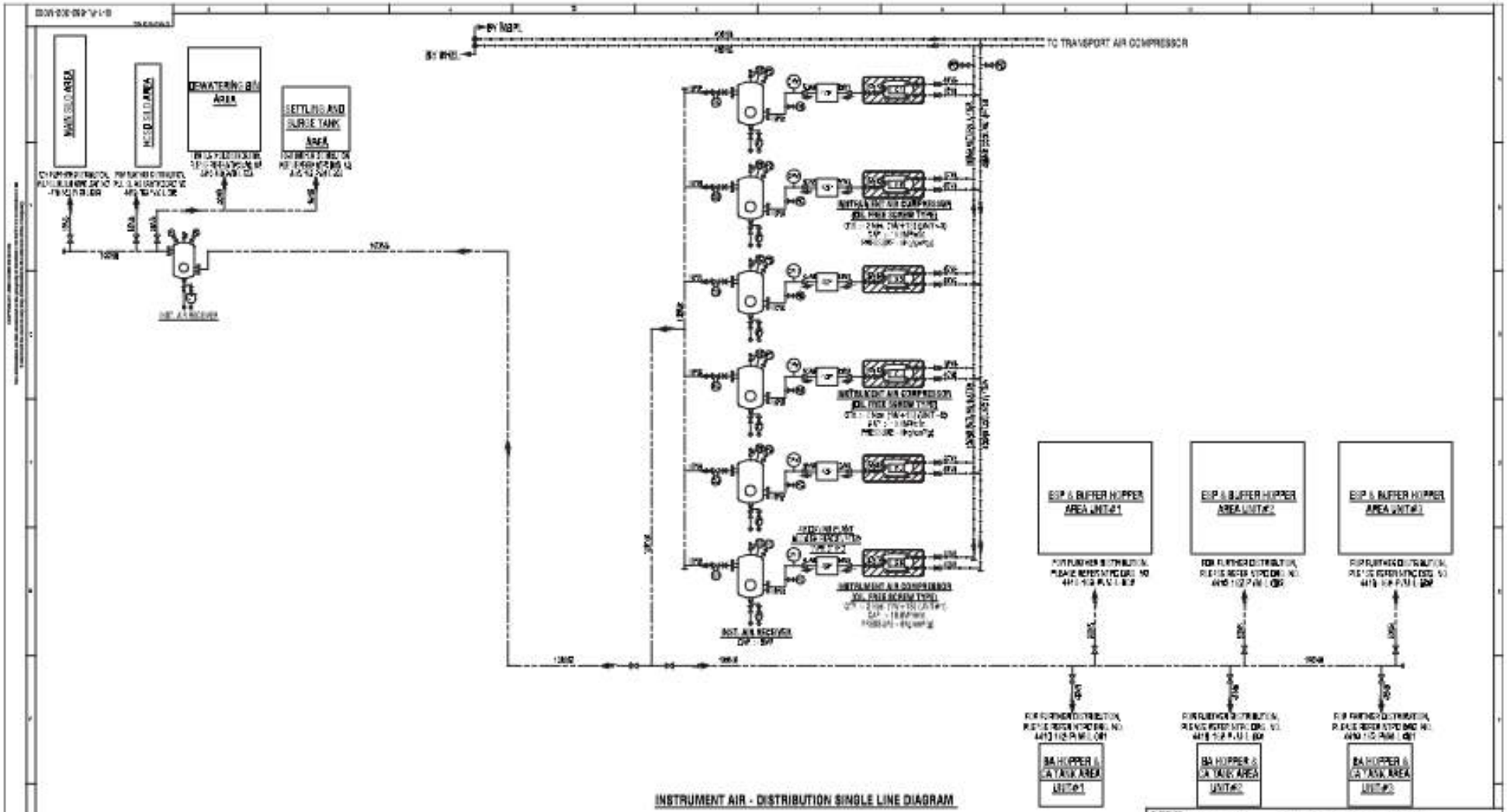
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(3X660MW)

BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

KACHANDER ORKAY PRIVATE LIMITED
NOIDA (U.P.)

ASH WATER & ASH SLURRY DISPOSAL SYSTEM
SINGLE LINE FLOW DIAGRAM


UNIT#1
NTPC Limited
NORTH KARANPURA SUPER THERMAL POWER PROJECT
(3X660MW)
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE
MADANBER BEEKAY PRIVATE LIMITED
NOIDA (U.P.)
FLY ASH VACUUM CONVEYING
SYSTEM-SINGLE LINE FLOW DIAGRAM
SAURABHA DAS
RELEASE STATUS



INSTRUMENT AIR - DISTRIBUTION SINGLE LINE DIAGRAM

NTPC Limited

NORTH KARANPURA SUPER THERMAL POWER PROJECT (3X660MW)

BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

VADANDER GREEN ENERGY PRIVATE LIMITED NOIDA (U.P.)

RELEASE STATUS

PURPOSE	DATE	SIGNATURE
PREPARED		
CHECKED		
APPROVED		
ISSUED		
RELEASED		

REV.	DATE	DESCRIPTION	BY	CHKD	APPD
3	04.09.18	REVISED AS PER NTPC LETTER REFERENCE NO. CC/152.0440.00/ CC/152.0440.00/ DTD. 08.08.18	RAVEEN	AP	EVE
2	04.07.18	REVISED AS PER NTPC LETTER REFERENCE NO. CC/152.0440.00/ CC/152.0440.00/ DTD. 08.08.18	RAVEEN	AP	EVE
1	02.07.18	REVISED AS PER NTPC LETTER REFERENCE NO. CC/152.0440.00/ CC/152.0440.00/ DTD. 08.08.18	SAN	AP	EVE

REVISION

DRAWN	
CHECKED	
APPROVED	
PLOT SCALE	NTS
DRAWING NO.	4413-165-PAM-L-032
REV. NO.	3
SHEET NO.	4
NO. OF SHEETS	4

TITLE: ASH AIR TACTION CONVEYING SYSTEM-SINGLE LINE FLOW DIAGRAM

NTPC Limited

NORTH KARANPURA SUPER THERMAL POWER PROJECT
(3X660MW)

BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

MACAWBER BEEKAY PRIVATE LIMITED
NOIDA (U.P.)

RELEASE STATUS

RCSD SYSTEM
SINGLE LINE FLOW DIAGRAM