



एन टी पी सी लिमिटेड

(भारत सरकार का उद्यम)

**NTPC Limited**

(A Govt. of India Enterprise)

बरौनी / Barauni

संदर्भसंख्या/Ref No:/BARAUNI TPS/EMG/2026/EC/01

दिनांक/Date 01.06.2026

To,

Regional Office (East Central Zone),  
Ministry of Environment, Forest & Climate Change,  
Bungalow No. A2, Shyamil Colony,  
Ranchi – 834002  
Email: ro.ranchi-mef@gov.in

**Subject : Half Yearly Compliance Report of condition stipulated in Environmental Clearance of 2X250 MW Barauni (Extension) Thermal Power Station at Barauni Block, District Begusarai & Patna, Bihar for the period of Oct, 2025 to March,2026.**

MOEF&CC Ref: EC letter no. J-13012/143/2008-IA.II(T) dated 08.05.2014 and 22.04.2020

Dear Sir,

Kindly find enclosed Half Yearly Compliance Report regarding compliance of conditions stipulated in Environmental Clearance accorded by MOE&CC vide letter no. J-13012/143/2008-IA.II(T) dated 08.05.2014 and 22.04.2020 for Barauni TPS Stage-II (2x250 MW) for the period 01.10.2025 to 31.03.2026.

This is for your kind information please.

Thanking You

Yours faithfully

(Sankalp Srivastava)  
Sr. Manager (EMG & AU)  
For & on behalf of Barauni TPS  
Begusarai-851116

Encl : As above

**Copy to :** (i) Regional Office, Bihar Pollution Control Board, Barauni, Dist. Begusarai.  
(ii) Regional Director, CPCB, Kolkata

बरौनी थर्मल पावर स्टेशन, बीटीपीएस, बरौनी, जिला-बेगूसराय-851116 (बिहार)

Barauni Thermal Power Station, BTPS, Barauni, Distt.-Begusarai-851116 (Bihar)

पंजीकृत कार्यालय : एनटीपीसी भवन, स्कोप कॉम्प्लेक्स, 7 इंस्टीट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110 003

Registered Office : NTPC Bhawan, SCOPE Complex, 7 Institutional Area, Lodhi Road, New Delhi - 110 003

Corporate Identification Number : L40101DL1975GO1007966, Website : www.ntpc.co.in

Visit : [f/ntpc1](https://www.facebook.com/ntpc1) [/ntpcld1](https://www.youtube.com/channel/UCpCld1) [/ntpclimited](https://www.twitter.com/ntpclimited) [/company/ntpc](https://www.linkedin.com/company/ntpc) [/ntpclimited](https://www.instagram.com/ntpclimited)

**Half Yearly Compliance Report  
2025  
01 Jun(01 Oct - 31 Mar)**

**Acknowledgement**

<b>Proposal Name</b>	2X250 MW Barauni (Extension) Thermal Power Station at Barauni Block, District Begusarai and Patna, Bihar		
<b>Name of Entity / Corporate Office</b>	NTPC LIMITED		
<b>Village(s)</b>	N/A		
<b>District</b>	BEGUSARAI		
<b>Proposal No.</b>	IA/BR/THE/20972/2013	<b>Category</b>	Thermal Projects
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	BIHAR	<b>Entity's PAN</b>	*****0255D
<b>MoEF File No.</b>	J-13012/143/2008-IA.II(T)	<b>Entity name as per PAN</b>	NTPC LIMITED

**Compliance Reporting Details**

<b>Reporting Year</b>	2025
<b>Remarks (if any)</b>	Half yearly Compliance of EC from 01.10.2025 to 31.03.2026 by Barauni Thermal Power Station, Stage-II (2x250 MW) of NTPC Limited are uploaded.
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

**Name of Entity / Corporate Office** NTPC LIMITED

	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	0	0
Revenue Land	252.524	158.27
Forest	0	0
Others	N/A	N/A
<b>Total</b>	<b>252.524</b>	<b>158.27</b>

**Others Area**

Sr. no	Other Name	Area Granted	Area Actual
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**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Electricity	MW	29/12/2029	500	3632.02 Millions Units	500

## Conditions

### Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	iv. A stack of 275 m height shall be provided with continuous online monitoring equipment for SO <sub>x</sub> , NO <sub>x</sub> , and PM <sub>2.5</sub> and PM <sub>10</sub> . Exit velocity of flue raises shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.
<p><b>PPs Submission:</b> Complied</p> <p>Complied. Equipment for continuous online monitoring of PM<sub>2.5</sub> and PM<sub>10</sub> in stack emissions is not available in market. Therefore, continuous online monitoring equipment for SO<sub>x</sub>, NO<sub>x</sub>, and PM has been installed and under operation in stack. Flue gas velocity is more than 22 m per sec and Mercury emissions from stack are being monitored periodically by third party lab approved by MOEFCC. Copy of stack monitoring report during compliance period is enclosed as Annexure-III.</p>		Date: 01/06/2026
2	AIR QUALITY MONITORING AND PRESERVATION	v. High Efficiency Electrostatic Precipitator (ESPs) shall be installed to ensure that particulate emission from the proposed plant does not exceed 50 mg/Nm <sup>3</sup> .
<p><b>PPs Submission:</b> Complied</p> <p>Complied. High Efficiency Electrostatic Precipitator (ESPs) are under operation. As per Stack emissions PM data monitored by MOEFCC approved lab are well within the permissible limits.</p>		Date: 01/06/2026
3	AIR QUALITY MONITORING AND PRESERVATION	vi. 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.
<p><b>PPs Submission:</b> Complied</p> <p>Complied. Dust suppression has been commissioned in coal handling plant, coal stock yard area, ash handling points and conveyor belts and transfer points for control of fugitive dust emissions. Water sprinkling is being done on roads to minimize dust emissions. Water Sprinkling network is under operation at Contingency ash pond for effective dust suppression. Dust extraction system at crusher house has been commissioned. Photographs of Dust Control measures are enclosed as Annexure-IV.</p>		Date: 01/06/2026
4	AIR QUALITY MONITORING AND PRESERVATION	x. Fugitive emission of fly ash (Dry or wet system) 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.
<p><b>PPs Submission:</b> Complied</p> <p>Complied. Regular water sprinkling used to do through a network of sprinklers along with covering of dry patches of ash pond with waste polypropylene sheet. No agriculture/Non-agriculture land is affected due to ash. Tractor propelled water tankers are also deployed to control dust emissions from ash transportation road. Green grass/bushes are grown mitigate dust emissions. Pond Ash vehicles are covered with Tarpaulin sheet. Closed bulkers, Closed containers and covered rail rack are used for fly ash transportation. Photographs of Fugitive Dust Control measures are enclosed as Annexure-IV.</p>		Date: 01/06/2026
5	AIR QUALITY	iii. Sulphur and ash contents in the coal to be used in project shall

	MONITORING AND PRESERVATION	not exceed 0.6 percent and 40.1 percent respectively at any given time. In case of variance of coal quality at any point of time fresh reference shall be made to the Ministry for suitable amendments to environmental clearance Condition(S) wherever necessary.
<p><b>PPs Submission: Complied</b> Complied. As per MoEFCC Notification dated 21.05.2020, stipulations with regard to ash content in coal used by Thermal Power Plants are waived-off. However, the details of coal received w.r.t source and distance from FY2021-22, 2022-23, 2023-24, 2024-25, 2025-26 and Sulphur Content for Month Oct.2025-March.2026 is enclosed herewith as Annexure-II.</p>		Date: 01/06/2026
6	AIR QUALITY MONITORING AND PRESERVATION	xi. A long term study of heavy metal and radioactivity contents on coal shall be carried out through a reputed institute and results thereof analyzed every two years and reported along with monitoring reports. Thereafter mechanism for in built continuous monitoring of radio activity and heavy metals in coal and fly ash(including bottom ash) will be put in place.
<p><b>PPs Submission: Complied</b> Report of Radio activity analysis of Coal and Ash by BARC is attached as Annexure-VI. Heavy metal testing in coal and ash is being done. Copy enclosed as Annexure-V. Equipment for continuous monitoring of heavy metals in coal and ash is not available in market.</p>		Date: 01/06/2026
7	Corporate Environmental Responsibility	xxi. The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for free potable drinking water supply in the near by villages and schools shall be undertaken in a time bound manner.
<p><b>PPs Submission: Complied</b> Being Complied. Various community development work like construction of Boundary wall of Govt. schools, Toilets, desk-benches to govt. schools, Infrastructure development, 89 nos. High Mast lights etc. has been done. Computer lab in Govt. ITI for computer skill development in youths has been set-up. Smart classes at 10 nos. Govt. Schools has been installed. Sponsoring the Rural sports and allied activities. Scholarship to Govt. school students, organizing sports activities, mobile medical camps, distribution of wheelchairs to Divyangjan etc. has been done for welfare of community. Every month about 3000 patients used to get benefits from Mobile Medical Unit with free consultation and free medicines. Girl Empowerment Mission, GEM residential camp for one month for nearby Govt. school girls has been organized for their personality development, carrier planning and social upliftment. To strengthen the medical facilities in the area, an Auto Analyser, Ultrasound machine, X-Ray machine and 04 nos. AC has been given to CHC Barauni. Project surrounding areas and schools have been covered by the Govt. scheme of Har Ghar Nal Yojna Therefore, special package for free potable drinking water supply in the nearby villages and schools not required. However, during flood conditions in nearby area, drinking water has been supplied through water tankers as and when required. Toilet complex has been constructed at Chakia Thana.</p>		Date: 01/06/2026
8	Corporate Environmental Responsibility	xxii. As committed an amount of Rs 21.996 Crores as one time capital investment shall be earmarked for activities to be taken up under CSR during construction phase of the Project. Recurring expenditure for CSR thereafter shall be RS. 3.66 crores per annum or as per CSR guidelines of Govt of India, whichever is more till the life of the plant.
<p><b>PPs Submission: Being Complied</b> Being Complied. A budgetary provision of 22 Crore is kept in the stage-II DCO for CSR activities. 17 Crore has been spent till now. A plan for community development has been approved by District Magistrate, Begusarai. Hence development work under progress as per approved plan and directions of district administration along with other activities. Proposals under approval/execution is for Rs. 1.98 Cr.</p>		Date: 01/06/2026
9	Corporate Environmental Responsibility	xxiii. For proper and periodic monitoring of CSR activities, a CSR

	Responsibility	committee or a Social Audit committee or a suitable credible external agency shall be appointed. CSR activities shall be evaluated by an independent external agency. The evaluation shall be both concurrent and final.
<p><b>PPs Submission: Being Complied</b> For monitoring and implementation of CSR/CD schemes, A dedicated CSR department is in place and it is functioning under HR dept of Barauni. Corporate R and R, CSR dept. also monitor the CD/CSR activities of NTPC Barauni. DM is chairman of a committee who handle the CSR plan and expenditure of all companies in Begusarai district. A study for Socio Impact Evaluation Survey, has been awarded on 25.02.2026 to Indian institute of Corporate Affairs.</p>		Date: 01/06/2026
10	Corporate Environmental Responsibility	xxiv. CSR Schemes identified based on need based assessment shall be implemented in consultation with the village panchayat and the District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in project after imparting relevant training shall be also undertaken. Company shall provide budget for Community development activities and income generating programmers.
<p><b>PPs Submission: Being Complied</b> CSR/CD Scheme has been finalized as per recommendation of DM Begusarai. The scheme was approved by DM, Begusarai vide letter dated 12.06.2020 and copy of same has been submitted along with half yearly compliance to R.O., MOEFCC vide our letter dated 30.12.2020. A Need Assessment Survey for CD/CSR activities has been done in 2021 for detail analysis of CD/CSR requirement in the area. During current period, 19 Local employable youths in project are being trained under PM Internship Scheme. Besides, this apprentice training is being imparted every year to local youths. Training programs like Beautician course, stitching, Mushroom Cultivation for Self-employment of local employable women and farmers has been conducted.</p>		Date: 01/06/2026
11	Corporate Environmental Responsibility	xxv. 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 directly report to the head of the organization who would be accountable for implementation of environmental regulation and social impact improvement mitigation measures.
<p><b>PPs Submission: Being Complied</b> Environment Cell is headed by an Additional General Manager level Executive Which directly (Functionally) report to Head of Project. One Senior Manager level executive is M.Tech in Environmental Sc. and Engg.</p>		Date: 01/06/2026
12	ENERGY PRESERVATION MEASURES	ii. Scheme for implementation for harnessing solar power within the premises of the plant particularly at available roof tops shall be formulated and status of implementation shall be submitted periodically to the Regional Office of the Ministry from time to time.
<p><b>PPs Submission: Being Complied</b> 900 KWp roof top solar systems is under operation. Solar road lights at various places in township has been installed. For example, a photograph of Roof top solar on various buildings of plant for reference is enclosed as Annexure-I. Ground mounted solar PV of capacity 2.47 MWp by NVVN is currently under commissioning.</p>		Date: 01/06/2026
13	GREENBELT	xx. 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 a20 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per with survival rate not less than 80

		percent.	
<p><b>PPs Submission: Being Complied</b> Complied. Cumulative trees (inhouse and External area plantation) planted By Barauni TPS at its project area as well as Begusarai division is 79750 Nos. till March, 2026. As the project is located on Old ash pond area of Stage-I, therefore dense Green belt (2500 trees per hecters) is not feasible to develop.</p>			Date: 01/06/2026
14	LAND RECLAMATION	xix. 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.	
<p><b>PPs Submission: Complied</b> Not applicable. As Stage-II project has been installed on old Ash disposal area of old units of Stage-I. Therefore, only levelling of ash has been done. No natural drainage system has been affected. Soil only for tree plantation and roads construction is being used.</p>			Date: 01/06/2026
15	MISCELLANEOUS	i. Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	
<p><b>PPs Submission: Complied</b> Complied. NTPC vide its letter dated 19.04.2019 has submitted a Project Vision Document to the Regional Office of Ministry of Environment and Forest and Climate Change (MoEFCC) at Ranchi.</p>			Date: 01/06/2026
16	WASTE MANAGEMENT	vii. 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 at any point of time. In case, the option of mine void filling is to be adopted. Prior from an institute of repute and adequate clay lining area shall be ascertained by the State Pollution Control Board and implementation done in close coordination with the State Control Board.	
<p><b>PPs Submission: Complied</b> Complied. No mine void filling done by project. Pond ash on request of District Administration for 2212.54MT for pilot testing production of Green fertilizer by a Bihar Govt. supported self-help group of women (Jivika) issued in FY2025-26 period as permitted under per MoEFCC Notification dated 31.12.2021.</p>			Date: 01/06/2026
17	WASTE MANAGEMENT	viii. 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 pond, No ash shall be disposed off in low lying area.	
<p><b>PPs Submission: Complied</b> Complied. Two Number of Ash Silos of 1300 MT capacity each are under operation for storing and evacuation of fly ash. Heavy metal monitoring is being done in Bottom ash (pond) periodically. A test report on Bottom ash characteristics is enclosed as Annexure-V. Fly ash is being lifted by Cement Industries, ash brick industries and Pond Ash in NHAI, road projects etc. Ash water from ash pond is completely recycled to power plant for ash slurry preparation. No effluent is being discharge from existing ash ponds.</p>			Date: 01/06/2026
18	WATER QUALITY MONITORING AND PRESERVATION	ix. Ash pond shall be lined with HDPE/LDPE or any other suitable impermeable media so that no leachate takes place at any point of time. A strong embankment shall be constructed around the ash dyke and TPP to prevent any flood water entering the site. The stability of these embankment shall be studied by reputed institutes like CWPRS,	

		Pune and the recommendations of the institute shall be accordingly implemented.	
<p><b>PPs Submission:</b> Complied</p> <p>The 56 Acres contingency dyke has two lagoons. Impermeable LDPE lining work in Lagoon-I and II had been done and Lagoon-II in operation. Embankment has been constructed by Water Resources Department Govt. of Bihar and erstwhile BSPGCL. Same is being maintained by NTPC. Annual Certification of stability of the ash dyke embankment was studied by NIT Patna in February,2026 and recommendation given by them are being followed. The construction of 290 Acres permanent ash dyke is under suspended state due to land possession issues. The new dyke will be constructed using state of the art technologies.</p>			Date: 01/06/2026
19	WATER QUALITY MONITORING AND PRESERVATION	xii. 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.	
<p><b>PPs Submission:</b> Complied</p> <p>Complied. No natural water bodies has been diverted/disturbed for installation of Power Plant.</p>			Date: 01/06/2026
20	WATER QUALITY MONITORING AND PRESERVATION	xiii. COC of 5.0 shall be adopted.	
<p><b>PPs Submission:</b> Complied</p> <p>Complied. Average COC is 5.0 is being maintained.</p>			Date: 01/06/2026
21	WATER QUALITY MONITORING AND PRESERVATION	xiv. A well designed rain water harvesting system will be put in place within six months , which shall comprise of rain water collection from built up and open area in the plant premises and detailed record of quantity of water collected and its use. Action plan and road map for its implementation shall be submitted to regional office of Ministry.	
<p><b>PPs Submission:</b> Complied</p> <p>Complied. 12 no. of small rainwater harvesting pits are constructed. A large storm water pit of 8000 Cum capacity has been constructed to collect rainwater from storm water drains for in Groundwater re-charge. Balance two nos. storm water pits are also under construction. Records for estimated quantity for rainwater collected through rainwater harvesting pits and Storm water pits are being maintained.</p>			Date: 01/06/2026
22	WATER QUALITY MONITORING AND PRESERVATION	xv. "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. "	
<p><b>PPs Submission:</b> Complied</p> <p>Complied. Surface and ground water Quality monitoring is being done periodically, and reports are enclosed. There is no deterioration is observed in water quality around ash dyke. Hydrogeological Study completed and draft report submitted by consultant. Ground water and Surface water quality monitoring data nearby villages of ash dyke are enclosed at Annexure-VII.</p>			Date: 01/06/2026
23	WATER QUALITY MONITORING AND PRESERVATION	xvi. Monitoring surface water quality in the area 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. "	

<p><b>PPs Submission:</b> Complied Report of groundwater analysis and Surface water are attached as Annexure-VII. Heavy metals monitoring data are also included in these reports.</p>		<p>Date: 01/06/2026</p>
24	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>xvii. Wastewater generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB.</p>
<p><b>PPs Submission:</b> Complied An effluent management scheme (ETP, STP and Coal Slurry Settling pit) has been implemented and wastewater is being treated and complying prescribed limits. No wastewater is being discharged from plant and it is being completely recycled/reused within plant itself. Third party lab monitoring data of ETP/STP inlet and outlet are enclosed above as compliance of Condition no.A(xvi).</p>		<p>Date: 01/06/2026</p>
25	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>xviii. No discharge in the River is permitted except if the quality of the effluent is of the quality or better as that of River.</p>
<p><b>PPs Submission:</b> Complied Complied. The plant is Zero Liquid effluent Discharge (ZLD) Plant, and no effluent is being discharged from project boundary. All effluents are being recycled and reused within plant.</p>		<p>Date: 01/06/2026</p>
<p><b>General Conditions</b></p>		
Sr.No.	Condition Type	Condition Details
1	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>vii. Regular monitoring of ambient air ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>2.5</sub> and PM<sub>10</sub> and Hg shall be carried out in the impact zone and record 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.</p>
<p><b>PPs Submission:</b> Complied Complied. Regular monitoring of AAQ is being done in and around plant area through MOEFCC approved lab. The CAAQMS have been Implemented in 3 locations and real time data are being transmitted to CPCB and BSPCB. Ambient Air Quality Data (April,2025 to September,2025) along with last Half yearly compliances report are available on NTPC Website. Ambient air quality data (October,2025 to March,2026) from MOEFCC and BSPCB approved lab is attached as Annexure-VIII. and same shall be uploaded on NTPC website along with current Half yearly Compliance Report.</p>		<p>Date: 01/06/2026</p>
2	<p>Human Health Environment</p>	<p>v. First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.</p>
<p><b>PPs Submission:</b> Complied Complied. Rest rooms, toilets and occupational centres under operation. First Aid box has been provided at designated locations of plant.</p>		<p>Date: 01/06/2026</p>
3	<p>Human Health Environment</p>	<p>viii. "Provision shall be made for the housing of construction labor (as applicable) within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.</p>

<p><b>PPs Submission: Complied</b> Complied. NTPC has constructed labour restrooms with required facilities within the site. Infrastructure facilities such as sanitation, medical facilities, drinking water has been made available to workers. An Occupational health Centre at Plant and Primary Health Centre at township is already available. Canteen facilities has been provided to all persons working in plant.</p>		<p>Date: 01/06/2026</p>
4	Noise Monitoring & Prevention	vi. "Noise levels emanating from turbines shall be limited to 85 dB (A) from source. For people working in the high noise area, requisite personal protective equipment like ear plugs/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."
<p><b>PPs Submission: Complied</b> Complied. Personal protective equipment has been arranged through contractors/safety department during execution of works. The operators working in turbine area, compressor etc. or high noisy area are provided ear plugs/ earmuffs by contractors/safety Department. Periodic medical examination of operators are being done for operators working in Turbine area, air compressors etc. for operational Unit.</p>		<p>Date: 01/06/2026</p>
5	MISCELLANEOUS	iii. Adequate safety measures shall be provided in the plant area to check/minimize 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
<p><b>PPs Submission: Complied</b> Hydrant system for covering the entire power station including all the auxiliaries and buildings in the plant area has been commissioned. Key plan for fire protection system was submitted in Half yearly compliance report dated 06.12.2021.</p>		<p>Date: 01/06/2026</p>
6	MISCELLANEOUS	iv. 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; Sulphur content in the liquid fuel will not exceed 0.5 percent. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.
<p><b>PPs Submission: Complied</b> Complied. Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS have been made in the plant area after approval from department of Explosives, Nagpur. A detailed Disaster Management Plan has been prepared and approved by Chief Inspector of factories Bihar on 28.01.2025.</p>		<p>Date: 01/06/2026</p>
7	MISCELLANEOUS	ix. "The project proponent shall advertise in at least two local news papers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> "
<p><b>PPs Submission: Complied</b> Complied. The information regarding Environmental Clearance was published by previous project proponent i.e. BSPGCL. NTPC is project proponent of Barauni Thermal Power Station since 15.12.2018.</p>		<p>Date: 01/06/2026</p>

8	MISCELLANEOUS	x. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila parishad/Municipal Corporation, urban local body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
<b>PPs Submission: Complied</b> Complied. A copy of the clearance letter has been sent to District Collector, Begusarai dated 14.05.2014 and Mukhiya Malhipur Panchyat, Mukhia Kasha Diyara Panchyat and Adhyaska Nagar Parisad, Mokama vide dated 13.05.2014 by then project proponent BSPGCL. The Environmental Clearance (EC) copy is available on NTPC website.		Date: 01/06/2026
9	MISCELLANEOUS	xi. "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 and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5 and PM10), SO2, NOx (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."
<b>PPs Submission: Complied</b> Complied. The information regarding Environmental Clearance was published by previous project proponent i.e. BSPGCL. NTPC is project proponent of Barauni Thermal Power Station since 15.12.2018.		Date: 01/06/2026
10	MISCELLANEOUS	xii. 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.
<b>PPs Submission: Complied</b> Complied. The environment statement for financial year (2024-25) ending 31st March in Form-V has been submitted to the Bihar State Pollution Control Board vide letter dated 27.09.2025. A copy of same is also sent by email to Regional office, Ranchi, MOEFCC.		Date: 01/06/2026
11	MISCELLANEOUS	xiii. The project proponent shall submit six monthly reports on the status of the implementations of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by email to Regional office, Ministry of Environment and Forests.
<b>PPs Submission: Complied</b> Complied. Last Half yearly Compliance status for Period April, 2025- September,2025 is available online on NTPC Website. Latest Half yearly Compliance status for Period October,2025- March,2026 of the stipulated environmental clearance conditions is being submitted to the Regional Office of MOEFCC at Ranchi and other authorities and same will be available on NTPC website after submission.		Date: 01/06/2026
12	MISCELLANEOUS	xiv. Regional office of the Environment and Forests will monitor the implementation of the stipulated conditions. A complete set of

		documents including Environmental Impact Assessment Report and Environment Management plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack and ambient air) shall be displayed at the main gate of the power plant.
<p><b>PPs Submission: Complied</b> Complied. A Copy of EIA/EMP has been already submitted to the Regional Office of MoEFCC at Ranchi. Last Half yearly Compliance status for Period April,2025- September,2025 is available online on NTPC website. Latest Half yearly Compliance status for Period October,2025- March,2026 will be available on NTPC website after submission. Criteria pollutants levels including NOx (from stack and ambient air) have been displayed on digital display board at the main gate of the power plant. A photograph of Digital Real time data Display board is enclosed as Annexure-IX.</p>		<p>Date: 01/06/2026</p>
13	MISCELLANEOUS	xv. Separate funds shall be allocated for implementation of environmental protection measures along with item wise breakup. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the ministry.
<p><b>PPs Submission: Complied</b> Complied. Implemented Measures 1.Installation of ESPs of 99.78 percent efficiency to limit the RSPM concentrations. 2. A stack of 275 m for wider dispersion of gaseous emissions.( Rs.40 Crore) 3.ETP for treatment of waste water. 4.Coal slurry settling pond. 5.Dry ash Extraction system. 6.STP for treatment of sewage. 7. Dust suppression has been commissioned in coal handling area including coal stock yard area, ash handling points for control of fugitive dust emissions. 8. Continuous emission monitoring system(CEMS) and Effluent Quality Monitoring System(EQMS).( Rs.53 Lakhs) 9. Ambient Air quality monitoring system(AAQMS).(Rs.5 Crore) Implemented 1.Asphalting of the roads within the plant area. 2.Rainwater harvesting system /pit. 3.Zero liquid discharge system.(Rs.60 Lakhs) 4. Dust extraction system has been commissioned at Coal Crusher system. 5. Plantation in Begusarai division through DFO with provision of expenditure of Rs. 2.2 Crores from CSR/CD expenses in FY2020-24. 6. Plantation in Begusarai Division through DFO with provision of expenditure of Rs. 1.27 Crores in FY 2022-26. 7. Payment of Rs.9.44 Lakhs has been incurred for plantation of 2107 trees at Project area. 8. Total cost Rs. 12.785 Crore for NOx modification of both units.Unit-8 and 9 combustion modification completed. 9. Contract for Roof Top Solar completed for Rs. 4.2 Crore. 11.Renovation of Hazardous Waste Shed done with cost about Rs.40 lakhs.</p>		<p>Date: 01/06/2026</p>
14	MISCELLANEOUS	xvi. The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.
<p><b>PPs Submission: Complied</b> Complied. Financial Closure achieved in 2015 with PFC. Commercial operation declaration of Unit-8 Barauni Stage-II was done w.e.f 01.03.2020. Commercial operation declaration of Unit-9 Barauni Stage-II was done w.e.f 01.11.2021.</p>		<p>Date: 01/06/2026</p>
15	MISCELLANEOUS	xvii. Full cooperation shall be extended to the Scientists/officers from the Ministry / Regional Office of the Ministry/ CPCB /SPCB who would be monitoring the compliance of environmental status.
<p><b>PPs Submission: Being Complied</b> Full cooperation is being extended to the Scientists/ officers from the Ministry / Regional Office of the Ministry at Ranchi/ the CPCB / the SPCB during monitoring of the project.</p>		<p>Date: 01/06/2026</p>
16	MISCELLANEOUS	6. The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to

		the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions of modify the existing ones, if necessary.
<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 01/06/2026
17	MISCELLANEOUS	7. The environmental clearance accorded shall be valid for a period of 5 years from the date of issue of this letter to start operations by the power plant
<b>PPs Submission:</b> Complied Noted. Power plant already under operation.		Date: 01/06/2026
18	MISCELLANEOUS	8. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection)Act, 1986
<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 01/06/2026
19	MISCELLANEOUS	9. In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any
<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 01/06/2026
20	MISCELLANEOUS	10. The above stipulations would be enforced among others under the water (prevention and Control of pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act,1981, the Environment(Protection) Act,1986 and rules there under, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and its amendments, the public Liability Insurance Act,1991 and its amendments
<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 01/06/2026
21	MISCELLANEOUS	11. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010
<b>PPs Submission:</b> Agreed to Comply Noted.		Date: 01/06/2026
22	MISCELLANEOUS	EC Transfer letter Vide Letter No. J-13012/143/2008-IA.II(T) dated 22.04.2020 : The necessary pollution control measures shall be implemented to comply with revised emission norms and specific water consumption as per the Ministrys Notifications S.O.3305(E) dated 07.12.2015 and GSR 593(E) dated 28.06.2018. The progress of its implementation (physical and Financial) and extensions received from CPCB/MOEFCC, if any shall be submitted as part of compliance report.

**PPs Submission: Being Complied**

The following pollution control measures has been implemented to comply new emission norms.  
i. Installation of ESPs of 99.78 percent efficiency to limit the RSPM concentrations. ii. Combustion modification for reduce NOx emissions in Unit-8 and Unit-9 completed. iii. AWRS System and recycle of treated effluents to achieve specific water consumption norms. iv. Exemption of SO2 emissions is effective, as per MOEFCC Notification dated 11.07.2025.

Date:  
01/06/2026

**Visit Remarks****Last Site Visit Report Date:**

09/01/2019

**Additional Remarks:**

The EC conditions which were marked as 'Not complied' during inspection by RO, MOEFCC on 09.01.2019, has been complied now.

**Note:** This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

**900 KWe Roof Top Solar Systems Installed for Green Energy**



Roof top solar systems at canteen



Roof top solar systems at reserve water



Roof top solar systems at TG Hall Roof

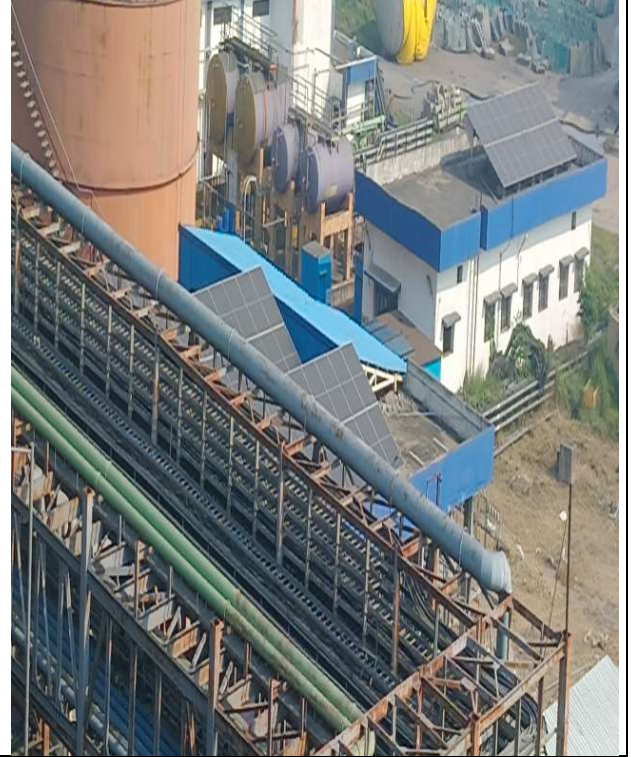


Roof top solar systems at Switch yard room roof

**Annexure-I**



Roof top solar systems at CW Pump House



Roof top solar systems at DM Plant

Source wise coal received by Barauni Stage-II(2x250MW) in FY 2021-22, 2022-23, 2023-24, 2024-25, 2025-26(up to March.26)											
Coal Received (MT)	FY-2021-22	Avg. Chargeble Dist. (KM) FY-2021-22	FY-2022-23	Avg. Chargeble Dist. (KM) FY-2022-23	FY-2023-24	Avg. Chargeble Dist. (KM) FY-2023-24	FY-2024-25	Avg. Chargeble Dist. (KM) FY-2024-25	FY-2025-26 (up to March.2026)	Avg. Chargeble Dist. (KM) FY-2025-26	
PBCMP	992845.64	311	2007615.41	311	2194031.91	311	1629282	315	1335299	315	
CCL	303976.6	411	66455.25	411	57748.32	499	0	509	0	509	
ECL	310777.21	218	333913.42	226	86081.98	230	22988	255	0	255	
BCCL	0						223159		345749	299	
BCCL (Dvt_in)	11801.95	319	0		22568.69	317	16673		20083		
MCFL (Dvt_in)	0		0		14614.97	636	0		3930		
ECL (Dvt_in)							7694				
CCL (Dvt_in)							62865		40813		
PB (Dvt_in)							218906		303497		
THDC_DRGM									10851		
Domestic Contract (Sendoz)							399373		130804		
<b>Total</b>	<b>1619401.40</b>	<b>315</b>	<b>2407984.08</b>	<b>316</b>	<b>2375045.87</b>	<b>399</b>	<b>2580940.41</b>	<b>360</b>	<b>2191026.00</b>	<b>345</b>	

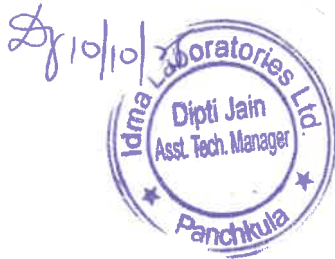
**SULPHUR % (FY 2025-26)**

<b>Sl No</b>	<b>Month</b>	<b>Avg S (%)</b>
1	Apr-25	0.44
2	May-25	0.44
3	Jun-25	0.47
4	Jul-25	0.48
5	Aug-25	0.45
6	Sep-25	0.41
7	Oct-25	0.38
8	Nov-25	0.45
9	Dec-25	0.44
10	Jan-26	0.46
11	Feb-26	0.43
12	Mar-26	0.45



## TEST REPORT

LAB NO.	061025N-E-002	PageNo.1/1			
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai Begusarai Bihar-851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	04.10.2025				
Location of Sampling	Boiler Unit-8 (250MW)				
Unit Load	162 MW				
Date of Receiving of sample	06.10.2025				
Period of Analysis	06.10.2025 to 10.10.2025				
Date of Reporting	10.10.2025				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	31	.....	.....
2	Stack gas Temperature	°C	135	.....	.....
3	Barometric Pressure	mmHg	530.42	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	5.7	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	23.9	IS:11255Part1	.....
9	Sampling Time	Minutes	41	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	27	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1313551.9	IS:11255Part1	.....
12	Moisture	%	8.1	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	21.53	IS:11255Part1	.....
14	Particulate Matter on 12% CO <sub>2</sub>	mg/Nm <sup>3</sup>	23.49	IS:11255Part1	.....
15	Particulate Matter on 6% O <sub>2</sub>	mg/Nm <sup>3</sup>	24.84	IS:11255Part1	Max.30
16	Particulate Matter on 6% O <sub>2</sub>	Kg/hr	32.63	IS:11255Part1	.....
17	CO <sub>2</sub>	%	11	IS:13270	.....
18	CO <sub>2</sub>	Kg/hr	286091.60	IS:13270	.....
19	Oxygen	%	8	IS:13270	.....
20	CO	%	0.3	IS:13270	.....



## Idma Laboratories Limited

Idma Corporate Park,

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Email : commercial@idmalab.co.in

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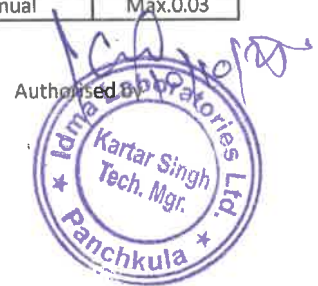
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## TEST REPORT

21	NOx at dry basis	mg/Nm <sup>3</sup>	227.64	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	262.66	IS:11255Part7	Max.100
23	NOx at 6% O2	Kg/hr	345.02	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	445.23	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	513.73	IS:11255Part2	Max.100
26	SO2 at 6% O2	Kg/hr	674.81	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.001	LATS/80/2013-2014/CPCB Manual	Max.0.03

\*End of Report\*

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## TEST REPORT

LAB NO.	061025N-E-003	PageNo.1/1
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai Begusarai Bihar- 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
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	04.10.2025	
Location of Sampling	BoilerUnit-9(250MW)	
Unit Load	153 MW	
Date of Receiving of sample	06.10.2025	
Period of Analysis	06.10.2025 to 10.10.2025	
Date of Reporting	10.10.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	32	.....	.....
2	Stack gas Temperature	°C	129	.....	.....
3	Barometric Pressure	mmHg	530.41	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	5.8	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	24	IS:11255Part1	.....
9	Sampling Time	Minutes	42	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	26	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1253909.76	IS:11255Part1	.....
12	Moisture	%	7.7	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	19.95	IS:11255Part1	.....
14	Particulate Matter on 12% CO <sub>2</sub>	mg/Nm <sup>3</sup>	21.96	IS:11255Part1	.....
15	Particulate Matter on 6% O <sub>2</sub>	mg/Nm <sup>3</sup>	23.02	IS:11255Part1	Max.30
16	Particulate Matter on 6% O <sub>2</sub>	Kg/hr	28.86	IS:11255Part1	.....
17	CO <sub>2</sub>	%	10.9	IS:13270	.....
18	CO <sub>2</sub>	Kg/hr	270618.81	IS:13270	.....
19	Oxygen	%	8	IS:13270	.....
20	CO	%	0.4	IS:13270	.....



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## TEST REPORT

21	NOx at dry basis	mg/Nm <sup>3</sup>	209.63	IS:11255Part7	.....
22	NOx at 6% O <sub>2</sub>	mg/Nm <sup>3</sup>	241.88	IS:11255Part7	Max.100
23	NOx at 6% O <sub>2</sub>	Kg/hr	303.30	IS:11255Part7	.....
24	SO <sub>2</sub> at dry basis	mg/Nm <sup>3</sup>	433.42	IS:11255Part2	.....
25	SO <sub>2</sub> at 6% O <sub>2</sub>	mg/Nm <sup>3</sup>	500.10	IS:11255Part2	Max.100
26	SO <sub>2</sub> at 6% O <sub>2</sub>	Kg/hr	627.08	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0011	LATS/80/2013-2014/CPCB Manual	Max.0.03

\*End of Report\*

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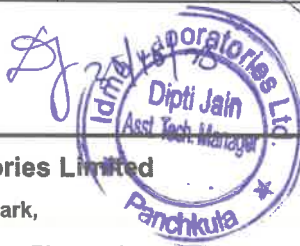
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## TEST REPORT

LAB NO.	271025N-E-002	PageNo.1/2			
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai, Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	24.10.2025				
Location of Sampling	Boiler Unit-8 (250MW)				
Unit Load	152MW				
Date of Receiving of sample	27.10.2025				
Period of Analysis	27.10.2025to30.10.2025				
Date of Reporting	30.10.2025				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	32	.....	.....
2	Stack gas Temperature	°C	129	.....	.....
3	Barometric Pressure	mmHg	530.48	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	5.5	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	24.8	IS:11255Part1	.....
9	Sampling Time	Minutes	45	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	24	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1346188.84	IS:11255Part1	.....
12	Moisture	%	8	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	20.74	IS:11255Part1	.....
14	Particulate Matter on 12% CO <sub>2</sub>	mg/Nm <sup>3</sup>	22.83	IS:11255Part1	.....
15	Particulate Matter on 6% O <sub>2</sub>	mg/Nm <sup>3</sup>	23.75	IS:11255Part1	Max.30
16	Particulate Matter on 6% O <sub>2</sub>	Kg/hr	31.97	IS:11255Part1	.....
17	CO <sub>2</sub>	%	10.9	IS:13270	.....
18	CO <sub>2</sub>	Kg/hr	290534.48	IS:13270	.....
19	Oxygen	%	7.9	IS:13270	.....
20	CO	%	0.3	IS:13270	.....



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**TEST REPORT**

21	NOx at dry basis	mg/Nm <sup>3</sup>	216.59	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	248.00	IS:11255Part7	Max.100
23	NOx at 6% O2	Kg/hr	333.86	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	481.42	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	551.24	IS:11255Part2	Max.100
26	SO2 at 6% O2	Kg/hr	742.08	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0012	LATS/80/2013-2014/CPCB Manual	Max.0.03



\*End of Report\*

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## TEST REPORT

LAB NO.	271025N-E-003	PageNo.1/2			
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai, Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	24.10.2025				
Location of Sampling	Boiler Unit-9 (250MW)				
Unit Load	163 MW				
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	Limit
1	Ambient Temperature	°C	29	.....	.....
2	Stack gas Temperature	°C	135	.....	.....
3	Barometric Pressure	mmHg	530.46	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	5.6	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	25.1	IS:11255Part1	.....
9	Sampling Time	Minutes	44	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	25	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1345442.46	IS:11255Part1	.....
12	Moisture	%	7.9	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	20.97	IS:11255Part1	.....
14	Particulate Matter on 12% CO2	mg/Nm <sup>3</sup>	23.09	IS:11255Part1	.....
15	Particulate Matter on 6% O2	mg/Nm <sup>3</sup>	24.20	IS:11255Part1	Max.30
16	Particulate Matter on 6% O2	Kg/hr	32.55	IS:11255Part1	.....
17	CO2	%	10.9	IS:13270	.....
18	CO2	Kg/hr	290373.39	IS:13270	.....
19	Oxygen	%	8	IS:13270	.....
20	CO	%	0.3	IS:13270	.....



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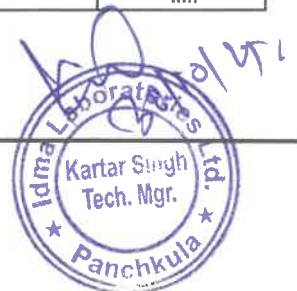
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**TEST REPORT**

21	NOx at dry basis	mg/Nm <sup>3</sup>	225.87	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	260.62	IS:11255Part7	Max.100
23	NOx at 6% O2	Kg/hr	350.65	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	506.31	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	584.20	IS:11255Part2	Max.100
26	SO2 at 6% O2	Kg/hr	786.01	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0011	LATS/80/2013-2014/CPCB Manual	Max.0.03



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## TEST REPORT

LAB NO.	061025N-E-004	PageNo.1/2			
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni, Begusarai, Begusarai, Bihar -851116 India. Begusarai, Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	03.11.2025				
Location of Sampling	Boiler Unit-8 (250MW)				
Unit Load	208 MW				
Date of Receiving of sample	06.11.2025				
Period of Analysis	06.11.2025 to 11.11.2025				
Date of Reporting	11.11.2025				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	30	.....	.....
2	Stack gas Temperature	°C	133	.....	.....
3	Barometric Pressure	mmHg	530.45	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	5.8	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	24	IS:11255Part1	.....
9	Sampling Time	Minutes	44	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	26	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1270194.31	IS:11255Part1	.....
12	Moisture	%	7.8	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	22.35	IS:11255Part1	.....
14	Particulate Matter on 12% CO <sub>2</sub>	mg/Nm <sup>3</sup>	24.61	IS:11255Part1	.....
15	Particulate Matter on 6% O <sub>2</sub>	mg/Nm <sup>3</sup>	25.59	IS:11255Part1	Max.30

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## TEST REPORT

LAB NO.		061025N-E-004		PageNo.2/2	
16	Particulate Matter on 6% O2	Kg/hr	32.51	IS:11255Part1	.....
17	CO2	%	10.9	IS:13270	.....
18	CO2	Kg/hr	274133.34	IS:13270	.....
19	Oxygen	%	7.9	IS:13270	.....
20	CO	%	0.3	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	241.69	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	276.74	IS:11255Part7	Max.100
23	NOx at 6% O2	Kg/hr	351.52	IS:11255Part7	.....
24	SO2atdrybasis	mg/Nm <sup>3</sup>	462.91	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	530.05	IS:11255Part2	Max.100
26	SO2 at 6% O2	Kg/hr	673.27	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0012	LATS/80/2013-2014/CPCB Manual	Max.0.03

\*End of Report\*

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## TEST REPORT

LAB NO.	061025N-E-005	PageNo.1/2			
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni, Begusarai, Begusarai, Bihar -851116 India. Begusarai, Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	03.11.2025				
Location of Sampling	Boiler Unit-9 (250MW)				
Unit Load	171 MW				
Date of Receiving of sample	06.11.2025				
Period of Analysis	06.11.2025 to 11.11.2025				
Date of Reporting	11.11.2025				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	31	.....	.....
2	Stack gas Temperature	°C	132	.....	.....
3	Barometric Pressure	mmHg	530.42	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	5.9	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	23.9	IS:11255Part1	.....
9	Sampling Time	Minutes	45	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	25	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1297335.21	IS:11255Part1	.....
12	Moisture	%	8	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	20.63	IS:11255Part1	.....
14	Particulate Matter on 12% CO <sub>2</sub>	mg/Nm <sup>3</sup>	22.51	IS:11255Part1	.....

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## TEST REPORT

LAB NO.		061025N-E-005		PageNo.2/2	
15	Particulate Matter on 6% O2	mg/Nm <sup>3</sup>	23.80	IS:11255Part1	Max.30
16	Particulate Matter on 6% O2	Kg/hr	30.88	IS:11255Part1	.....
17	CO2	%	11	IS:13270	.....
18	CO2	Kg/hr	282559.61	IS:13270	.....
19	Oxygen	%	8	IS:13270	.....
20	CO	%	0.4	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	218.34	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	251.93	IS:11255Part7	Max.100
23	NOx at 6% O2	Kg/hr	326.84	IS:11255Part7	.....
24	SO2atdrybasis	mg/Nm <sup>3</sup>	441.75	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	509.71	IS:11255Part2	Max.100
26	SO2 at 6% O2	Kg/hr	661.27	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0013	LATS/80/2013-2014/CPCB Manual	Max 0.03

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## TEST REPORT

LAB NO.	211125N-E-007	PageNo.1/2			
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni, Begusarai, Begusarai, Bihar -851116 India. Begusarai, Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	18.11.2025				
Location of Sampling	Boiler Unit-9 (250MW)				
Unit Load	138 MW				
Date of Receiving of sample	21.11.2025				
Period of Analysis	21.11.2025 to 25.11.2025				
Date of Reporting	25.11.2025				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	28	.....	.....
2	Stack gas Temperature	°C	126	.....	.....
3	Barometric Pressure	mmHg	531.56	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	5.1	.....	.....
7	Stack gas Pressure	mm/Hg	5.7	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	24.2	IS:11255Part1	.....
9	Sampling Time	Minutes	45	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	26	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1476406.57	IS:11255Part1	.....
12	Moisture	%	8.3	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	21.21	IS:11255Part1	.....
14	Particulate Matter on 12% CO <sub>2</sub>	mg/Nm <sup>3</sup>	21.21	IS:11255Part1	.....
15	Particulate Matter on 6% O <sub>2</sub>	mg/Nm <sup>3</sup>	25.05	IS:11255Part1	Max.30

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## TEST REPORT

LAB NO.		211125N-E-007		PageNo.2/2	
16	Particulate Matter on 6% O2	Kg/hr	36.99	IS:11255Part1	.....
17	CO2	%	12	IS:13270	.....
18	CO2	Kg/hr	350794.20	IS:13270	.....
19	Oxygen	%	8.3	IS:13270	.....
20	CO	%	0.3	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	239.28	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	282.61	IS:11255Part7	Max.100
23	NOx at 6% O2	Kg/hr	417.25	IS:11255Part7	.....
24	SO2atdrybasis	mg/Nm <sup>3</sup>	463.08	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	546.94	IS:11255Part2	Max.100
26	SO2 at 6% O2	Kg/hr	807.51	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0012	LATS/80/2013-2014/CPCB Manual	Max.0.03

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**TEST REPORT**

LAB NO.	271125N-E-001	PageNo.1/2			
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni, Begusarai, Begusarai, Bihar -851116 India. Begusarai, Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	25.11.2025				
Location of Sampling	Boiler Unit-8 (250MW)				
Unit Load	142MW				
Date of Receiving of sample	27.11.2025				
Period of Analysis	27.11.2025 to 02.12.2025				
Date of Reporting	02.12.2025				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	27	.....	.....
2	Stack gas Temperature	°C	128	.....	.....
3	Barometric Pressure	mmHg	530.31	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	5.6	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	25.1	IS:11255Part1	.....
9	Sampling Time	Minutes	47	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	23	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1379504.3	IS:11255Part1	.....
12	Moisture	%	8.1	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	20.78	IS:11255Part1	.....
14	Particulate Matter on 12% CO2	mg/Nm <sup>3</sup>	23.09	IS:11255Part1	.....
15	Particulate Matter on 6% O2	mg/Nm <sup>3</sup>	23.61	IS:11255Part1	Max.30

Renu  
21/12/25  
Idma Laboratories Limited  
Renu  
Sr. Analyst  
Authorised Signatory

Kartar Singh  
Tech. Mgr.  
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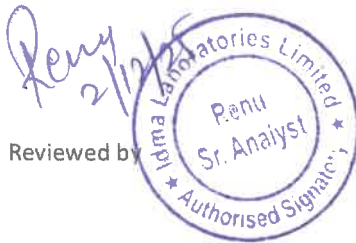
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## TEST REPORT

LAB NO.		271125N-E-001		PageNo.2/2	
16	Particulate Matter on 6% O2	Kg/hr	32.58	IS:11255Part1	.....
17	CO2	%	10.8	IS:13270	.....
18	CO2	Kg/hr	294993.20	IS:13270	.....
19	Oxygen	%	7.8	IS:13270	.....
20	CO	%	0.3	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	216.45	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	245.97	IS:11255Part7	Max.100
23	NOx at 6% O2	Kg/hr	339.31	IS:11255Part7	.....
24	SO2atdrybasis	mg/Nm <sup>3</sup>	481.49	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	547.15	IS:11255Part2	Max.100
26	SO2 at 6% O2	Kg/hr	754.79	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0013	LATS/80/2013-2014/CPCB Manual	Max.0.03

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## TEST REPORT

LAB NO.		031225N-E-003		Page No.1/2	
Customer		1072-Barauni Thermal Power Plant Project, NH-31, Barauni, Begusarai, Begusarai Bihar -851116 India.			
Work Order No.		4000351821-057-1019 Date: 25.01.2025			
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		01.12.2025			
Location of Sampling		Boiler Unit-8 (250MW)			
Unit Load		185 MW			
Date of Receiving of sample		03.12.2025			
Period of Analysis		03.12.2025 to 08.12.2025			
Date of Reporting		08.12.2025			
Sampling Protocol		CPCB Manual			
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	28	.....	.....
2	Stack gas Temperature	°C	126	.....	.....
3	Barometric Pressure	mmHg	530.51	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6.1	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	24.2	IS:11255Part1	.....
9	Sampling Time	Minutes	45	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	25	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1313619.75	IS:11255Part1	.....
12	Moisture	%	8	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	20.97	IS:11255Part1	.....
14	Particulate Matter on12% CO2	mg/Nm <sup>3</sup>	23.09	IS:11255Part1	.....
15	Particulate Matter on 6% O2	mg/Nm <sup>3</sup>	24.20	IS:11255Part1	Max.30



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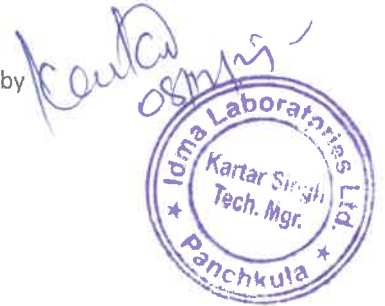
## TEST REPORT

LAB NO.		031225N-E-003		Page No.2/2	
16	Particulate Matter on 6% O2	Kg/hr	31.78	IS:11255Part1	.....
17	CO2	%	10.9	IS:13270	.....
18	CO2	Kg/hr	283505.42	IS:13270	.....
19	Oxygen	%	8	IS:13270	.....
20	CO	%	0.3	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	232.56	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	268.34	IS:11255Part7	Max.100
23	NOx at 6% O2	Kg/hr	352.49	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	451.08	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	520.48	IS:11255Part2	Max.100
26	SO2 at 6% O2	Kg/hr	683.71	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0011	LATS/80/2013-2014/CPCB Manual	Max.0.03



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## TEST REPORT

LAB NO.	271225N-E-001	Page No.1/2
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai Begusarai Bihar -851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
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	24.12.2025	
Location of Sampling	Boiler Unit-8 (250MW)	
UnitLoad	198MW	
Date of Receiving of sample	27.12.2025	
Period of Analysis	27.12.2025to31.12.2025	
Date of Reporting	31.12.2025	
Sampling Protocol	CPCB Manual	

S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	18	.....	.....
2	Stack gas Temperature	°C	124	.....	.....
3	Barometric Pressure	mmHg	530.48	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	5.5	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	25.3	IS:11255Part1	.....
9	Sampling Time	Minutes	46	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	24	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1356163.12	IS:11255Part1	.....
12	Moisture	%	7.9	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	22.35	IS:11255Part1	.....
14	Particulate Matter on12% CO2	mg/Nm <sup>3</sup>	24.83	IS:11255Part1	.....
15	Particulate Matter on 6% O2	mg/Nm <sup>3</sup>	25.59	IS:11255Part1	Max.30

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## TEST REPORT

LAB NO.		201225N-E-005		Page No.2/2	
16	Particulate Matter on 6% O2	Kg/hr	38.76	IS:11255Part1	.....
17	CO2	%	10.9	IS:13270	.....
18	CO2	Kg/hr	291530.26	IS:13270	.....
19	Oxygen	%	8	IS:13270	.....
20	CO	%	0.3	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	271.23	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	312.96	IS:11255Part7	Max.100
23	NOx at 6% O2	Kg/hr	422.74	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	468.21	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	540.24	IS:11255Part2	Max.100
26	SO2 at 6% O2	Kg/hr	729.76	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0015	LATS/80/2013-2014/CPCB Manual	Max.0.03

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## TEST REPORT

LAB NO.		050126N-E-001		Page No. 1/1	
Customer		1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.			
Work Order No.		4000351821-057-1019 Date: 25.01.2025			
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		02.01.2026			
Location of Sampling		Boiler Unit-8 (250 MW)			
Unit Load		218 MW			
Date of Receiving of sample		05.01.2026			
Period of Analysis		05.01.2026 to 09.01.2026			
Date of Reporting		09.01.2026			
Sampling Protocol		CPCB Manual			
S. No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	26	.....	.....
2	Stack gas Temperature	°C	128	.....	.....
3	Barometric Pressure	mmHg	530.51	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6.2	IS: 11255 Part 1	.....
8	Stack gas Velocity	m/sec	23.8	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 <sup>3</sup> /hr	1291907.03	IS: 11255 Part 1	.....
12	Moisture	%	8	IS: 11255 Part 1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	21.75	IS: 11255 Part 1	.....
14	Particulate Matter on 12%CO <sub>2</sub>	mg/Nm <sup>3</sup>	23.94	IS: 11255 Part 1	.....
15	Particulate Matter on 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	25.10	IS: 11255 Part 1	Max. 30
16	Particulate Matter on 6%O <sub>2</sub>	Kg/hr	32.42	IS: 11255 Part 1	.....
17	CO <sub>2</sub>	%	10.9	IS: 13270	.....
18	CO <sub>2</sub>	Kg/hr	278819.38	IS: 13270	.....
19	Oxygen	%	8	IS: 13270	.....
20	CO	%	0.3	IS: 13270	.....
21	NO <sub>x</sub> at dry basis	mg/Nm <sup>3</sup>	254.5	IS: 11255 Part 7	.....
22	NO <sub>x</sub> at 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	293.65	IS: 11255 Part 7	Max. 100
23	NO <sub>x</sub> at 6%O <sub>2</sub>	Kg/hr	379.37	IS: 11255 Part 7	.....
24	SO <sub>2</sub> at dry basis	mg/Nm <sup>3</sup>	479.8	IS: 11255 Part 2	.....
25	SO <sub>2</sub> at 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	553.62	IS: 11255 Part 2	Max. 100
26	SO <sub>2</sub> at 6%O <sub>2</sub>	Kg/hr	715.22	IS: 11255 Part 2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0013	LATS/80 /2013-2014 /CPCB Manual	Max. 0.03

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## TEST REPORT

LAB NO.	050126N-E-002	Page No. 1/1			
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	02.01.2026				
Location of Sampling	Boiler Unit-9 (250 MW)				
Unit Load	247 MW				
Date of Receiving of sample	05.01.2026				
Period of Analysis	05.01.2026 to 09.01.2026				
Date of Reporting	09.01.2026				
Sampling Protocol	CPCB Manual				
S. No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	27	.....	.....
2	Stack gas Temperature	°C	131	.....	.....
3	Barometric Pressure	mmHg	530.48	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6	IS: 11255 Part 1	.....
8	Stack gas Velocity	m/sec	24	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 <sup>3</sup> /hr	1335332.48	IS: 11255 Part 1	.....
12	Moisture	%	8.2	IS: 11255 Part 1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	22.76	IS: 11255 Part 1	.....
14	Particulate Matter on 12%CO <sub>2</sub>	mg/Nm <sup>3</sup>	24.83	IS: 11255 Part 1	.....
15	Particulate Matter on 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	26.26	IS: 11255 Part 1	Max. 30
16	Particulate Matter on 6%O <sub>2</sub>	Kg/hr	35.07	IS: 11255 Part 1	.....
17	CO <sub>2</sub>	%	11	IS: 13270	.....
18	CO <sub>2</sub>	Kg/hr	290835.41	IS: 13270	.....
19	Oxygen	%	8	IS: 13270	.....
20	CO	%	0.3	IS: 13270	.....
21	NO <sub>x</sub> at dry basis	mg/Nm <sup>3</sup>	259.15	IS: 11255 Part 7	.....
22	NO <sub>x</sub> at 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	299.02	IS: 11255 Part 7	Max. 100
23	NO <sub>x</sub> at 6%O <sub>2</sub>	Kg/hr	399.29	IS: 11255 Part 7	.....
24	SO <sub>2</sub> at dry basis	mg/Nm <sup>3</sup>	468.21	IS: 11255 Part 2	.....
25	SO <sub>2</sub> at 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	540.24	IS: 11255 Part 2	Max. 100
26	SO <sub>2</sub> at 6%O <sub>2</sub>	Kg/hr	721.40	IS: 11255 Part 2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0014	LATS/80 /2013-2014 /CPCB Manual	Max. 0.03

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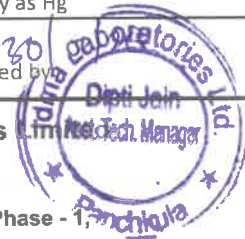
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## TEST REPORT

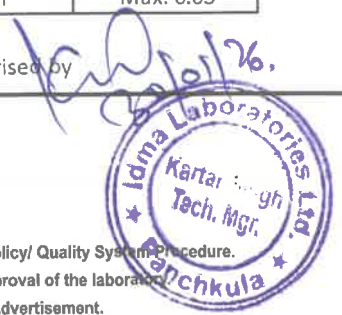
LAB NO.	270126N-E-015	Page No. 1/1			
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
Type of Sample	Boiler Stack Emission				
Quantity	1				
Packing , Markings	Thimble packed in Plastic Box.				
Mode of collection of Sample	Sampling by Laboratories				
Sample Collected by	Idma Lab Representative				
Date of Sampling	22.01.2026				
Location of Sampling	Boiler Unit-9 (250 MW)				
Unit Load	250 MW				
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	Limit
1	Ambient Temperature	°C	28	.....	.....
2	Stack gas Temperature	°C	130	.....	.....
3	Barometric Pressure	mmHg	530.49	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6.1	IS: 11255 Part 1	.....
8	Stack gas Velocity	m/sec	24	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 <sup>3</sup> /hr	1335332.48	IS: 11255 Part 1	.....
12	Moisture	%	8.2	IS: 11255 Part 1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	22.81	IS: 11255 Part 1	.....
14	Particulate Matter on 12%CO <sub>2</sub>	mg/Nm <sup>3</sup>	24.88	IS: 11255 Part 1	.....
15	Particulate Matter on 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	26.32	IS: 11255 Part 1	Max. 30
16	Particulate Matter on 6%O <sub>2</sub>	Kg/hr	35.14	IS: 11255 Part 1	.....
17	CO <sub>2</sub>	%	11	IS: 13270	.....
18	CO <sub>2</sub>	Kg/hr	290835.41	IS: 13270	.....
19	Oxygen	%	8	IS: 13270	.....
20	CO	%	0.3	IS: 13270	.....
21	NO <sub>x</sub> at dry basis	mg/Nm <sup>3</sup>	266.4	IS: 11255 Part 7	.....
22	NO <sub>x</sub> at 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	307.38	IS: 11255 Part 7	Max. 100
23	NO <sub>x</sub> at 6%O <sub>2</sub>	Kg/hr	410.46	IS: 11255 Part 7	.....
24	SO <sub>2</sub> at dry basis	mg/Nm <sup>3</sup>	471.29	IS: 11255 Part 2	.....
25	SO <sub>2</sub> at 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	543.80	IS: 11255 Part 2	Max. 100
26	SO <sub>2</sub> at 6%O <sub>2</sub>	Kg/hr	726.15	IS: 11255 Part 2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0015	LATS/80 /2013-2014 /CPCB Manual	Max. 0.03

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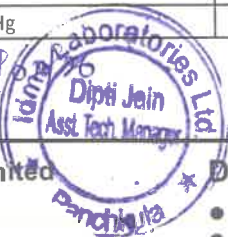


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## TEST REPORT

LAB NO.	300126N-E-002	Page No. 1/1			
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	27.01.2026				
Location of Sampling	Boiler Unit-8 (250 MW)				
Unit Load	168 MW				
Date of Receiving of sample	30.01.2026				
Period of Analysis	30.01.2026 to 02.02.2026				
Date of Reporting	02.02.2026				
Sampling Protocol	CPCB Manual				
S. No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	27	.....	.....
2	Stack gas Temperature	°C	133	.....	.....
3	Barometric Pressure	mmHg	530.52	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6.2	IS: 11255 Part 1	.....
8	Stack gas Velocity	m/sec	24.2	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 <sup>3</sup> /hr	1313619.75	IS: 11255 Part 1	.....
12	Moisture	%	8	IS: 11255 Part 1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	21.15	IS: 11255 Part 1	.....
14	Particulate Matter on 12%CO <sub>2</sub>	mg/Nm <sup>3</sup>	23.28	IS: 11255 Part 1	.....
15	Particulate Matter on 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	24.59	IS: 11255 Part 1	Max. 30
16	Particulate Matter on 6%O <sub>2</sub>	Kg/hr	32.31	IS: 11255 Part 1	.....
17	CO <sub>2</sub>	%	10.9	IS: 13270	.....
18	CO <sub>2</sub>	Kg/hr	283505.42	IS: 13270	.....
19	Oxygen	%	8.1	IS: 13270	.....
20	CO	%	0.3	IS: 13270	.....
21	NO <sub>x</sub> at dry basis	mg/Nm <sup>3</sup>	234.92	IS: 11255 Part 7	.....
22	NO <sub>x</sub> at 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	273.16	IS: 11255 Part 7	Max. 100
23	NO <sub>x</sub> at 6%O <sub>2</sub>	Kg/hr	358.83	IS: 11255 Part 7	.....
24	SO <sub>2</sub> at dry basis	mg/Nm <sup>3</sup>	451.32	IS: 11255 Part 2	.....
25	SO <sub>2</sub> at 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	524.79	IS: 11255 Part 2	Max. 100
26	SO <sub>2</sub> at 6%O <sub>2</sub>	Kg/hr	689.38	IS: 11255 Part 2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0012	LATS/80 /2013-2014 /CPCB Manual	Max. 0.03

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## TEST REPORT

LAB NO.	050226N-E-003	Page No.1/2			
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	03.02.2026				
Location of Sampling	Boiler Unit-8(250MW)				
Unit Load	244MW				
Date of Receiving of Sample	05.02.2026				
Period of Analysis	05.02.2026 to 09.02.2026				
Date of Reporting	09.02.2026				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	31	.....	.....
2	Stack gas Temperature	°C	131	.....	.....
3	Barometric Pressure	mmHg	530.54	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	23.9	IS:11255Part1	.....
9	Sampling Time	Minutes	46	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	25	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1329768.59	IS:11255Part1	.....
12	Moisture	%	8.2	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	23.25	IS:11255Part1	.....
14	Particulate Matter on 12%CO <sub>2</sub>	mg/Nm <sup>3</sup>	25.36	IS:11255Part1	.....
15	Particulate Matter on 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	27.03	IS:11255Part1	Max. 30



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## TEST REPORT

LAB NO.		050226N-E-003		Page No.2/2	
16	Particulate Matter on 6%O2	Kg/hr	35.95	IS:11255Part1	.....
17	CO2	%	11	IS:13270	.....
18	CO2	Kg/hr	289623.60	IS:13270	.....
19	Oxygen	%	8.1	IS:13270	.....
20	CO	%	0.2	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	264.58	IS:11255Part7	.....
22	NOx at 6%O2	mg/Nm <sup>3</sup>	307.65	IS:11255Part7	Max. 100
23	NOx at 6%O2	Kg/hr	409.10	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	487.36	IS:11255Part2	.....
25	SO2 at 6%O2	mg/Nm <sup>3</sup>	566.70	IS:11255Part2	Max. 100
26	SO2 at 6%O2	Kg/hr	753.58	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0015	LATS/80/2013-2014/CPCB Manual	Max. 0.03



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## TEST REPORT

LAB NO.	050226N-E-004	Page No.1/2			
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	03.02.2026				
Location of Sampling	Boiler Unit-9(250MW)				
Unit Load	245MW				
Date of Receiving of Sample	05.02.2026				
Period of Analysis	05.02.2026 to 09.02.2026				
Date of Reporting	09.02.2026				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	30	.....	.....
2	Stack gas Temperature	°C	132	.....	.....
3	Barometric Pressure	mmHg	530.49	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6.1	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	24.1	IS:11255Part1	.....
9	Sampling Time	Minutes	45	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	25	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1308191.57	IS:11255Part1	.....
12	Moisture	%	8	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	22.65	IS:11255Part1	.....
14	Particulate Matter on 12%CO2	mg/Nm <sup>3</sup>	24.94	IS:11255Part1	.....
15	Particulate Matter on 6%O2	mg/Nm <sup>3</sup>	25.94	IS:11255Part1	Max. 30



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## TEST REPORT

LAB NO.		050226N-E-003		Page No.1/2	
16	Particulate Matter on 6%O2	Kg/hr	33.93	IS:11255Part1	.....
17	CO2	%	10.9	IS:13270	.....
18	CO2	Kg/hr	282333.91	IS:13270	.....
19	Oxygen	%	7.9	IS:13270	.....
20	CO	%	0.3	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	256.31	IS:11255Part7	.....
22	NOx at 6%O2	mg/Nm <sup>3</sup>	293.48	IS:11255Part7	Max. 100
23	NOx at 6%O2	Kg/hr	383.93	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	464.95	IS:11255Part2	.....
25	SO2 at 6%O2	mg/Nm <sup>3</sup>	532.39	IS:11255Part2	Max. 100
26	SO2 at 6%O2	Kg/hr	696.46	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0013	LATS/80/2013-2014/CPCB Manual	Max. 0.03



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## TEST REPORT

LAB NO.	280226N-E-008	Page No.1/2			
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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-8(250MW)				
Unit Load	152MW				
Date of Receiving of Sample	28.02.2026				
Period of Analysis	28.02.2026 to 05.03.2026				
Date of Reporting	05.03.2026				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	32	.....	.....
2	Stack gas Temperature	°C	131	.....	.....
3	Barometric Pressure	mmHg	530.54	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6.1	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	24.1	IS:11255Part1	.....
9	Sampling Time	Minutes	44	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	25	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1324543.97	IS:11255Part1	.....
12	Moisture	%	8.1	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	19.92	IS:11255Part1	.....
14	Particulate Matter on 12%CO2	mg/Nm <sup>3</sup>	21.93	IS:11255Part1	.....
15	Particulate Matter on 6%O2	mg/Nm <sup>3</sup>	22.98	IS:11255Part1	Max. 30

28/03/26



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## TEST REPORT

LAB NO.		280226N-E-008		Page No.2/2	
16	Particulate Matter on 6%O2	Kg/hr	30.44	IS:11255Part1	.....
17	CO2	%	10.9	IS:13270	.....
18	CO2	Kg/hr	285863.08	IS:13270	.....
19	Oxygen	%	8	IS:13270	.....
20	CO	%	0.3	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	221.26	IS:11255Part7	.....
22	NOx at 6%O2	mg/Nm <sup>3</sup>	255.30	IS:11255Part7	Max. 100
23	NOx at 6%O2	Kg/hr	338.16	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	439.12	IS:11255Part2	.....
25	SO2 at 6%O2	mg/Nm <sup>3</sup>	506.68	IS:11255Part2	Max. 100
26	SO2 at 6%O2	Kg/hr	671.12	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0011	LATS/80/2013-2014/CPCB Manual	Max. 0.03



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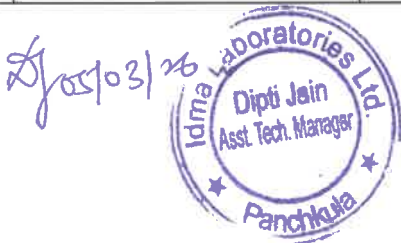
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# Idma Laboratories Limited

## TEST REPORT

LAB NO.	280226N-E-009	Page No.1/2			
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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-9(250MW)				
Unit Load	156MW				
Date of Receiving of Sample	28.02.2026				
Period of Analysis	28.02.2026 to 05.03.2026				
Date of Reporting	05.03.2026				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	31	.....	.....
2	Stack gas Temperature	°C	131	.....	.....
3	Barometric Pressure	mmHg	530.51	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6.2	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	23.8	IS:11255Part1	.....
9	Sampling Time	Minutes	42	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	24	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1291907.03	IS:11255Part1	.....
12	Moisture	%	8	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	16.32	IS:11255Part1	.....
14	Particulate Matter on 12%CO <sub>2</sub>	mg/Nm <sup>3</sup>	17.80	IS:11255Part1	.....
15	Particulate Matter on 6%O <sub>2</sub>	mg/Nm <sup>3</sup>	18.98	IS:11255Part1	Max. 30



### Idma Laboratories Limited

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# Idma Laboratories Limited



## TEST REPORT

LAB NO.		280226N-E-009		Page No.2/2	
16	Particulate Matter on 6%O2	Kg/hr	24.52	IS:11255Part1	.....
17	CO2	%	11	IS:13270	.....
18	CO2	Kg/hr	281377.35	IS:13270	.....
19	Oxygen	%	8.1	IS:13270	.....
20	CO	%	0.3	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	254.63	IS:11255Part7	.....
22	NOx at 6%O2	mg/Nm <sup>3</sup>	296.08	IS:11255Part7	Max. 100
23	NOx at 6%O2	Kg/hr	382.51	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	458.92	IS:11255Part2	.....
25	SO2 at 6%O2	mg/Nm <sup>3</sup>	533.63	IS:11255Part2	Max. 100
26	SO2 at 6%O2	Kg/hr	689.40	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0013	LATS/80/2013-2014/CPCB Manual	Max. 0.03

Reviewed by  
05/03/26  
  
  
Dipati Jain  
Asst. Tech. Manager  
Panchkula

\*End of Report\*

Authorised by

  
  
Kartar Singh  
Tech. Mgr.  
Panchkula

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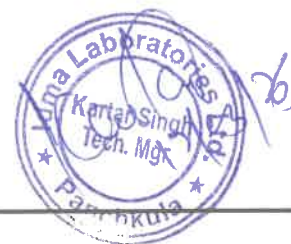
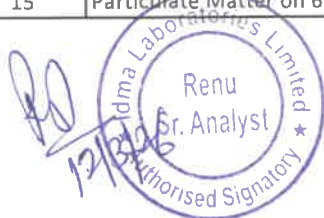


# Annexure-III

## Idma Laboratories Limited

### TEST REPORT

LAB NO.	070326N-E-004	PageNo.1/2			
Customer	1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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-8 (250MW)				
Unit Load	245MW				
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	Limit
1	Ambient Temperature	°C	31	.....	.....
2	Stack gas Temperature	°C	134	.....	.....
3	Barometric Pressure	mmHg	530.56	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6.2	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	24	IS:11255Part1	.....
9	Sampling Time	Minutes	45	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	25	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1367901.56	IS:11255Part1	.....
12	Moisture	%	8.4	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	23.41	IS:11255Part1	.....
14	Particulate Matter on 12% CO2	mg/Nm <sup>3</sup>	25.31	IS:11255Part1	.....
15	Particulate Matter on 6% O2	mg/Nm <sup>3</sup>	27.01	IS:11255Part1	Max.30



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# Annexure-III

## Idma Laboratories Limited

### TEST REPORT

LAB NO.		070326N-E-004		PageNo.2/2	
16	Particulate Matter on 6% O2	Kg/hr	36.95	IS:11255Part1	.....
17	CO2	%	11.1	IS:13270	.....
18	CO2	Kg/hr	300637.41	IS:13270	.....
19	Oxygen	%	8	IS:13270	.....
20	CO	%	0.2	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	268.41	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	309.70	IS:11255Part7	Max. 100
23	NOx at 6% O2	Kg/hr	423.64	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	490.45	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	565.90	IS:11255Part2	Max. 100
26	SO2 at 6% O2	Kg/hr	774.10	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0016	LATS/80/2013-2014/CPCB Manual	Max.0.03

\*End of Report\*

Authorised by



Reviewed by



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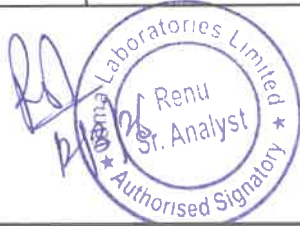


# Annexure-III

## Idma Laboratories Limited

### TEST REPORT

LAB NO.	070326N-E-005	PageNo.1/2			
Customer	1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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-9 (250MW)				
Unit Load	241MW				
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	Limit
1	Ambient Temperature	°C	31	.....	.....
2	Stack gas Temperature	°C	131	.....	.....
3	Barometric Pressure	mmHg	530.52	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	5.9	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	23.8	IS:11255Part1	.....
9	Sampling Time	Minutes	42	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	24	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1291907.03	IS:11255Part1	.....
12	Moisture	%	8	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	21.96	IS:11255Part1	.....
14	Particulate Matter on 12% CO2	mg/Nm <sup>3</sup>	23.96	IS:11255Part1	.....
15	Particulate Matter on 6% O2	mg/Nm <sup>3</sup>	25.53	IS:11255Part1	Max.30



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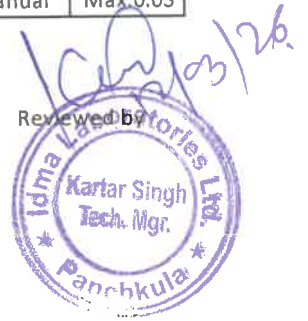


Annexure-III  
**Idma Laboratories Limited**

**TEST REPORT**

LAB NO.		070326N-E-005		PageNo.1/2	
16	Particulate Matter on 6% O2	Kg/hr	32.99	IS:11255Part1	.....
17	CO2	%	11	IS:13270	.....
18	CO2	Kg/hr	281377.35	IS:13270	.....
19	Oxygen	%	8.1	IS:13270	.....
20	CO	%	0.2	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	249.36	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	289.95	IS:11255Part7	Max. 100
23	NOx at 6% O2	Kg/hr	374.59	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	455.91	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	530.13	IS:11255Part2	Max. 100
26	SO2 at 6% O2	Kg/hr	684.88	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0012	LATS/80/2013-2014/CPCB Manual	Max.0.03

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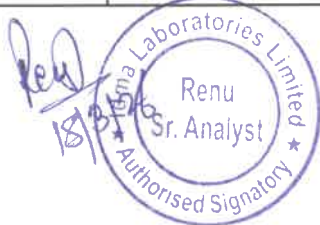


# Annexure-III

## Idma Laboratories Limited

### TEST REPORT

LAB NO.	120326N-E-004	PageNo.1/2			
Customer	1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	09.03.2026				
Location of Sampling	Boiler Unit-8 (250MW)				
Unit Load	207MW				
Date of Receiving of sample	12.03.2026				
Period of Analysis	12.03.2026 to 18.03.2026				
Date of Reporting	18.03.2026				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	32	.....	.....
2	Stack gas Temperature	°C	131	.....	.....
3	Barometric Pressure	mmHg	530.51	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	24.1	IS:11255Part1	.....
9	Sampling Time	Minutes	45	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	25	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1340896.36	IS:11255Part1	.....
12	Moisture	%	8.2	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	20.95	IS:11255Part1	.....
14	Particulate Matter on 12% CO2	mg/Nm <sup>3</sup>	23.28	IS:11255Part1	.....
15	Particulate Matter on 6% O2	mg/Nm <sup>3</sup>	24.17	IS:11255Part1	Max 30



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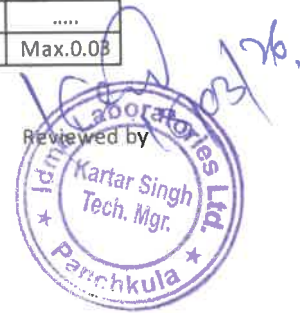
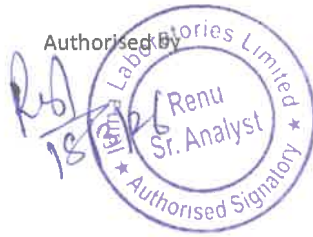
# Annexure-III

## Idma Laboratories Limited

### TEST REPORT

LAB NO.		120326N-E-004		PageNo.2/2	
16	Particulate Matter on 6% O2	Kg/hr	32.41	IS:11255Part1	.....
17	CO2	%	10.8	IS:13270	.....
18	CO2	Kg/hr	286737.28	IS:13270	.....
19	Oxygen	%	8	IS:13270	.....
20	CO	%	0.2	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	231.45	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	267.06	IS:11255Part7	Max. 100
23	NOx at 6% O2	Kg/hr	358.10	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	454.92	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	524.91	IS:11255Part2	Max. 100
26	SO2 at 6% O2	Kg/hr	703.85	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0011	LATS/80/2013-2014/CPCB Manual	Max.0.03

\*End of Report\*



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# Annexure-III Idma Laboratories Limited

## TEST REPORT

LAB NO.	280326N-E-009	PageNo.1/2			
Customer	1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
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	26.03.2026				
Location of Sampling	Boiler Unit-9 (250MW)				
Unit Load	213MW				
Date of Receiving of sample	28.03.2026				
Period of Analysis	28.03.2026 to 31.03.2026				
Date of Reporting	31.03.2026				
Sampling Protocol	CPCB Manual				
S.No.	Test Parameters	Units	Results	Test Method	Limit
1	Ambient Temperature	°C	31	.....	.....
2	Stack gas Temperature	°C	132	.....	.....
3	Barometric Pressure	mmHg	530.52	.....	.....
4	Fuel	.....	Coal	.....	.....
5	Stack Height	Meters	275	.....	.....
6	Stack Dia	Meters	4.9	.....	.....
7	Stack gas Pressure	mm/Hg	6.3	IS:11255Part1	.....
8	Stack gas Velocity	m/sec	24.1	IS:11255Part1	.....
9	Sampling Time	Minutes	44	IS:11255Part1	.....
10	Sampling Flow Rate	LPM	25	IS:11255Part1	.....
11	Volumetric Flow Rate	Nm <sup>3</sup> /hr	1324543.97	IS:11255Part1	.....
12	Moisture	%	8.1	IS:11255Part1	.....
13	Particulate Matter on dry basis	mg/Nm <sup>3</sup>	21.16	IS:11255Part1	.....
14	Particulate Matter on 12% CO2	mg/Nm <sup>3</sup>	23.30	IS:11255Part1	.....
15	Particulate Matter on 6% O2	mg/Nm <sup>3</sup>	24.60	IS:11255Part1	Max.30



### Idma Laboratories Limited

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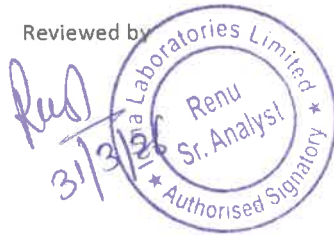
# Annexure-III Idma Laboratories Limited

## TEST REPORT

LAB NO.		280326N-E-009		PageNo.1/2	
16	Particulate Matter on 6% O2	Kg/hr	32.59	IS:11255Part1	.....
17	CO2	%	10.9	IS:13270	.....
18	CO2	Kg/hr	285863.08	IS:13270	.....
19	Oxygen	%	8.1	IS:13270	.....
20	CO	%	0.3	IS:13270	.....
21	NOx at dry basis	mg/Nm <sup>3</sup>	286.34	IS:11255Part7	.....
22	NOx at 6% O2	mg/Nm <sup>3</sup>	332.95	IS:11255Part7	Max. 100
23	NOx at 6% O2	Kg/hr	441.01	IS:11255Part7	.....
24	SO2 at dry basis	mg/Nm <sup>3</sup>	487.63	IS:11255Part2	.....
25	SO2 at 6% O2	mg/Nm <sup>3</sup>	567.01	IS:11255Part2	Max. 100
26	SO2 at 6% O2	Kg/hr	751.03	IS:11255Part2	.....
27	Mercury as Hg	mg/Nm <sup>3</sup>	0.0014	LATS/80/2013-2014/CPCB Manual	Max.0.03

\*End of Report\*

Reviewed by



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**Air Pollution Control Measure taken by Barauni Thermal Power Station**



Covering of Dry patches with Waste Tarpaulin Cover at L1 Ash Pond



Laying of LDPE Sheet to mitigate dust emission slopes



Dust extraction system at coal crusher house.



Water Sprinkling at Plant Roads



Water Sprinkling at road along Ash dyke boundary

**Annexure-IV**



Removal of dust and Cleaning of Roads



Maintain of Water Covering Working Dyke



Plantation along Railway siding at BTPS



Manual Water Sprinkling

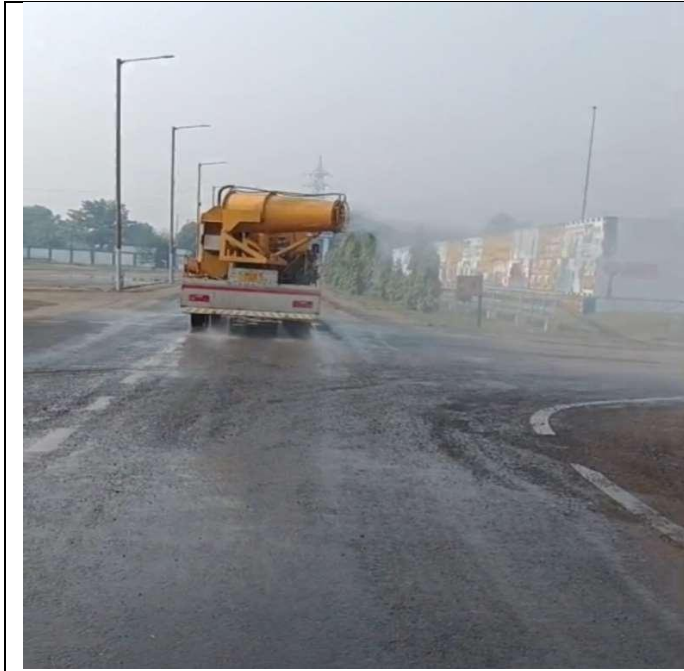


Green grass at Bottom of Slope of Ash Ponds



Plantation near Stage-I Coalgate

**Annexure-IV**



Mist cannon machine deployed in plant area.



Pond Ash Hywa Fully Covered with Tarpaulin Sheet



Wet Surface after Water Spray through Nozzles



Mechanized Water Sprinkling Network



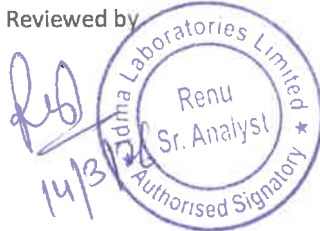
# Annexure-V

## Idma Laboratories Limited

### TEST REPORT

LAB NO.		100326N-E-001		
Customer	1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.			
Work Order No.	4000350865-057-1019 Date: 09.01.2025			
Type of Sample	Fly Ash			
Quantity	1Kg			
Packing, Markings	Plastic Bag			
Mode of collection of Sample	Sampling by Laboratories			
Sample Collected by	Idma Lab Representative			
Date of Sampling	07.03.2026			
Location of Sampling	Ash Pond (Unit-8)			
Date of Receiving of sample	10.03.2026			
Period of Analysis	10.03.2026 to 14.03.2026			
Date of Reporting	14.03.2026			
Sampling Protocol	SW-846 Chapter 9			
S.No.	Test Parameters	Units	Results	Testing Method
1	Total Arsenic (as As)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
2	Total Cadmium (as Cd)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
3	Total Chromium (as Cr)	mg/kg	18.23	APHA3125B
4	Total Copper (as Cu)	mg/kg	47.92	APHA3125B
5	Total Iron (as Fe)	mg/kg	16923	APHA3125B
6	Total Zinc (as Zn)	mg/kg	69.34	APHA3125B
7	Total Lead (as Pb)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
8	Total Mercury (as Hg)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
9	Total Hexavalent Chromium	mg/kg	2.67	APHA3500-B

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# Annexure-V Idma Laboratories Limited

## TEST REPORT

LAB NO.	100326N-E-002			
Customer	1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.			
Work Order No.	4000350865-057-1019 Date: 09.01.2025			
Type of Sample	Fly Ash			
Quantity	1Kg			
Packing, Markings	Plastic Bag			
Mode of collection of Sample	Sampling by Laboratories			
Sample Collected by	Idma Lab Representative			
Date of Sampling	07.03.2026			
Location of Sampling	Ash Pond (Unit-9)			
Date of Receiving of sample	10.03.2026			
Period of Analysis	10.03.2026 to 14.03.2026			
Date of Reporting	14.03.2026			
Sampling Protocol	SW-846 Chapter 9			
S.No.	Test Parameters	Units	Results	Testing Method
1	Total Arsenic (as As)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
2	Total Cadmium (as Cd)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
3	Total Chromium (as Cr)	mg/kg	17.91	APHA3125B
4	Total Copper (as Cu)	mg/kg	50.26	APHA3125B
5	Total Iron (as Fe)	mg/kg	17256	APHA3125B
6	Total Zinc (as Zn)	mg/kg	68.92	APHA3125B
7	Total Lead (as Pb)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
8	Total Mercury (as Hg)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
9	Total Hexavalent Chromium	mg/kg	2.79	APHA3500-B



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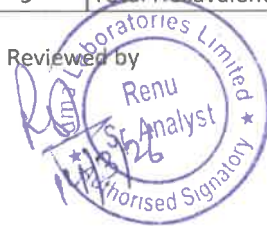
# Annexure-V

## Idma Laboratories Limited

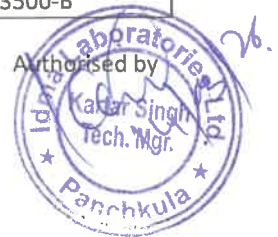
### TEST REPORT

LAB NO.		100326N-E-003		
Customer	1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.			
Work Order No.	4000350865-057-1019 Date: 09.01.2025			
Type of Sample	Bottom Ash			
Quantity	1Kg			
Packing, Markings	Plastic Bag			
Mode of collection of Sample	Sampling by Laboratories			
Sample Collected by	Idma Lab Representative			
Date of Sampling	07.03.2026			
Location of Sampling	Unit-8			
Date of Receiving of sample	10.03.2026			
Period of Analysis	10.03.2026 to 14.03.2026			
Date of Reporting	14.03.2026			
Sampling Protocol	SW-846 Chapter 9			
S.No.	Test Parameters	Units	Results	Testing Method
1	Total Arsenic (as As)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
2	Total Cadmium (as Cd)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
3	Total Chromium (as Cr)	mg/kg	17.84	APHA3125B
4	Total Copper (as Cu)	mg/kg	46.08	APHA3125B
5	Total Iron (as Fe)	mg/kg	19614	APHA3125B
6	Total Zinc(as Zn)	mg/kg	56.21	APHA3125B
7	Total Lead (as Pb)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
8	Total Mercury (as Hg)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
9	Total Hexavalent Chromium	mg/kg	2.95	APHA3500-B

Reviewed by



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# Annexure-V

## Idma Laboratories Limited

### TEST REPORT

LAB NO.		100326N-E-004		
Customer		1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.		
Work Order No.		4000350865-057-1019 Date: 09.01.2025		
Type of Sample		Bottom Ash		
Quantity		1Kg		
Packing, Markings		Plastic Bag		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		07.03.2026		
Location of Sampling		Unit-9		
Date of Receiving of sample		10.03.2026		
Period of Analysis		10.03.2026 to 14.03.2026		
Date of Reporting		14.03.2026		
Sampling Protocol		SW-846 Chapter 9		
S.No.	Test Parameters	Units	Results	Testing Method
1	Total Arsenic (as As)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
2	Total Cadmium (as Cd)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
3	Total Chromium (as Cr)	mg/kg	18.13	APHA3125B
4	Total Copper (as Cu)	mg/kg	49.06	APHA3125B
5	Total Iron (as Fe)	mg/kg	20.157	APHA3125B
6	Total Zinc(as Zn)	mg/kg	61.24	APHA3125B
7	Total Lead (as Pb)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
8	Total Mercury (as Hg)	mg/kg	BLQ(LOQ:0.05)	APHA3125B
9	Total Hexavalent Chromium	mg/kg	2.66	APHA3500-B

Reviewed by

*Renu*  
14/3/26  
Idma Laboratories Limited  
Renu  
Sr. Analyst  
Authorised Signatory

*14/03/26*  
Idma Laboratories Ltd.  
Authorised by  
Kartar Singh  
Tech. Mgr.  
Panchkula

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## Annexure-V

## Idma Laboratories Limited

## TEST REPORT

LAB NO.		210226N-E-001		
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.			
Work Order No.	4000350865-057-1019 Date: 09.01.2025			
Type of Sample	Coal			
Quantity	1 Kg			
Packing, Markings	Plastic Bag			
Mode of collection of Sample	Sampling by Laboratories			
Sample Collected by	Idma Lab Representative			
Date of Sampling	19.02.2026			
Location of Sampling	Feeder Coal Unit-8			
Date of Receiving of Sample	21.02.2026			
Period of Analysis	21.02.2026 to 28.02.2026			
Date of Reporting	28.02.2026			
Sampling Protocol	SW-846 Chapter 9			
S.No.	Test Parameters	Units	Results	Testing Method
1	Moisture Content	%	6.44	IS:1350(P-1)
2	Ash	%	36.18	IS:1350(P-1)
3	Volatile Matter	%	26.04	IS:1350(P-1)
4	Fixed Carbon	%	28.15	IS:1350(P-1)
5	Gross Calorific Value	Kcal/kg	3468.4	IS:1350(P-2)
6	Total Sulphur	%	0.27	IS:1350(P-3)
7	Hydrogen	%	4.09	IS:1350(P-4/S-1)
8	Carbon	%	40.11	IS:1350(P-4/S-1)
9	Nitrogen	%	0.74	IS:1350(P-4/S-1)
10	Total Arsenic (as As)	mg/kg	0.51	APHA3125B
11	Total Cadmium (as Cd)	mg/kg	0.73	APHA3125B
12	Total Chromium (as Cr)	mg/kg	28.16	APHA3125B
13	Total Copper (as Cu)	mg/kg	25.94	APHA3125B
14	Total Iron (as Fe)	mg/kg	12245	APHA3125B
15	Total Zinc (as Zn)	mg/kg	28.13	APHA3125B
16	Total Lead (as Pb)	mg/kg	5.92	APHA3125B
17	Total Mercury (as Hg)	mg/kg	0.22	APHA3125B
18	Total Hexavalent Chromium	mg/kg	4.62	APHA3500-B

Reviewed by



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## Annexure-V

## Idma Laboratories Limited

## TEST REPORT

LAB NO.		210226N-E-002		
Customer		1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.		
Work Order No.		4000350865-057-1019 Date: 09.01.2025		
Type of Sample		Coal		
Quantity		1 Kg		
Packing, Markings		Plastic Bag		
Mode of collection of Sample		Sampling by Laboratories		
Sample Collected by		Idma Lab Representative		
Date of Sampling		19.02.2026		
Location of Sampling		Feeder Coal Unit-9		
Date of Receiving of Sample		21.02.2026		
Period of Analysis		21.02.2026 to 28.02.2026		
Date of Reporting		28.02.2026		
Sampling Protocol		SW-846 Chapter 9		
S.No.	Test Parameters	Units	Results	Testing Method
1	Moisture Content	%	6.58	IS:1350(P-1)
2	Ash	%	35.92	IS:1350(P-1)
3	Volatile Matter	%	26.19	IS:1350(P-1)
4	Fixed Carbon	%	27.88	IS:1350(P-1)
5	Gross Calorific Value	Kcal/kg	3512.2	IS:1350(P-2)
6	Total Sulphur	%	0.19	IS:1350(P-3)
7	Hydrogen	%	4.23	IS:1350(P-4/S-1)
8	Carbon	%	39.84	IS:1350(P-4/S-1)
9	Nitrogen	%	0.71	IS:1350(P-4/S-1)
10	Total Arsenic (as As)	mg/kg	0.49	APHA3125B
11	Total Cadmium (as Cd)	mg/kg	0.68	APHA3125B
12	Total Chromium (as Cr)	mg/kg	29.23	APHA3125B
13	Total Copper (as Cu)	mg/kg	26.81	APHA3125B
14	Total Iron (as Fe)	mg/kg	11723.8	APHA3125B
15	Total Zinc (as Zn)	mg/kg	27.79	APHA3125B
16	Total Lead (as Pb)	mg/kg	6.13	APHA3125B
17	Total Mercury (as Hg)	mg/kg	0.09	APHA3125B
18	Total Hexavalent Chromium	mg/kg	4.24	APHA3500-B

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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 : 2504024  
जारी करने की तिथि/Date of Issue : 18-Sep-2025  
प्रमाणपत्र क्रमांक/Certificate Sr.No.: ULR-TC1170325000001050F



TC-11703



## Radioanalytical Laboratory RADIOACTIVITY TEST CERTIFICATE

Ref : BRIT/RAL/DOM/469-484/MISC/344-359/25-26

To :  
M/S. NTPC LTD., BARAUNI THERMAL POWER STATION  
NH-31, BARAUNI, BEGUSARAI-851116

This is regarding the sample of "COAL & FLYASH" sent for radioactivity analysis vide your letter Ref No.BTPS/CAL/25-26/08/001 dt.18.08.2025 which as per above letter is drawn from consignment with the following markings, as shown in italics:

**NAME & ADDRESS OF THE CUSTOMER** : *M/S. NTPC LTD., BARAUNI THERMAL POWER STATION  
NH-31, BARAUNI, BEGUSARAI - 851116.*

**SAMPLE DESCRIPTION** : *FOUR SAMPLES FEEDER & FLYASH COLLECTED FROM NTPC BARAUNI  
1) SAMPLE CODE : FEEDER # U8  
PLACE OF SAMPLING : NTPC BARAUNI  
DATE OF SAMPLING : 17.06.2025 / QTY : 300 GRAMS  
2) SAMPLE CODE : FEEDER # U9  
PLACE OF SAMPLING : NTPC BARAUNI  
DATE OF SAMPLING : 17.06.2025 / QTY : 300 GRAMS  
3) SAMPLE CODE : FLYASH # U8  
PLACE OF SAMPLING : NTPC BARAUNI  
DATE OF SAMPLING : 25.06.2025 / QTY : 300 GRAMS  
4) SAMPLE CODE : FEEDER # U9  
PLACE OF SAMPLING : NTPC BARAUNI  
DATE OF SAMPLING : 25.06.2025 / QTY : 300 GRAMS*

**DATE OF RECEIPT OF SAMPLE:** 29.07.2025

**DATE OF COMPLETION OF TEST:** 09.09.2025

Sample provided has been tested and the result obtained is as shown :

Sr. No	SAMPLE NAME	U-238 (Bq/Kg)	Th-232 (Bq/Kg)	Ra-226 (Bq/Kg)	K-40 (Bq/Kg)
1	FEEDER # U8	115.5 ± 4.0	174 ± 7.6	96.4 ± 10.0	699.5 ± 38.8
2	FEEDER # U9	53.0 ± 4.0	86.4 ± 4.0	24.7 ± 4.3	196.4 ± 14.9
3	FLYASH # U8	54.7 ± 4.0	98 ± 4.2	60.3 ± 8.9	334.6 ± 23.9
4	FLYASH # U9	110.2 ± 4.7	167.4 ± 7.6	81.8 ± 9.2	651.5 ± 37.3

TEST METHOD : IAEA Tech Doc-295-1989. Permissible Limit ( As per AERB Directive 01/2010 Table : 3 ) U-238, Ra-226, Th-232 : 1000 Bq/Kg & K-40 : 10000 Bq/Kg

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 \*\*\*\*\*

1/1

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://portal.britatom.gov.in>. We will then revert you back with a digital copy of the certificate in your verified e-mail ID. In accordance to IT Act 2000 (21 of 2000), this document is generated electronically through a validated s/w and need no physical/ digital signature(s).



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BRIT/ BARC Vashi Complex, Sector 20, Navi Mumbai - 400 703 (Maharashtra)

वेबसाइट/ Website: [www.britatom.gov.in](http://www.britatom.gov.in); दूरभाष/ 022 2788 7002/ 7006





## TEST REPORT

LAB NO.	081025N-E-001	PageNo. 1/1
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai Begusarai Bihar- 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
Type of Sample	Ground Water	
Quantity	6 Litre	
Packing, Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	06.10.2025	
Location of Sampling	Handpump Near Ash Dyke	
Date of Receiving of sample	08.10.2025	
Period of Analysis	08.10.2025 to 17.10.2025	
Date of Reporting	17.10.2025	
Sampling Protocol	IS:17614	
Testing Protocol	IS: 10500	

S.No.	Test Parameters	Units	Results	Limits	Testing Method
1	pH	.....	7.22	6.5-8.5	IS:3025 (Part-11)
2	Turbidity	NTU	<1	1/5	IS:3025 (Part-10)
3	Temperature	°C	24	Not Specified	IS:3025(Part-9)
4	Conductivity	µS/cm	453.9	Not Specified	IS: 3025 (Part-14)
5	Chloride	mg/L	12	250/1000	IS:3025 (Part-32)
6	Fluoride	mg/L	0.52		APHA4500D 24thEdition,2023
7	Total Suspended Solid	mg/L	<5	Not Specified	IS:3025 (Part-17)
8	Total Dissolved Solids	mg/L	267	500/2000	IS:3025 (Part-16)
9	Total Alkalinity	mg/L	172	200/600	IS:3025 (Part-23)
10	Calcium Hardness	mg/L	81.5	Not Specified	IS:3025 (Part-21)
11	Magnesium Hardness	mg/L	82.5	Not Specified	IS:3025 (Part-21)
12	Total Hardness	mg/L	164	200/600	IS:3025 (Part-21)
13	Sulphates	mg/L	18.3	200/400	IS:3025 (Part-24)
14	Sodium	mg/L	33.4	Not Specified	IS:3025 (Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	0.5/1.0	IS:3025 (Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	0.03/0.2	IS:3025 (Part-55)
17	Nitrates	mg/L	0.98	45	IS:3025 (Part-34)
18	DO	mg/L	8.1	Not Specified	IS:3025 (Part-38)
19	COD	mg/L	<4	Not Specified	IS:3025 (Part-58)
20	BOD	mg/L	<2	Not Specified	IS:3025 (Part-44)



## Idma Laboratories Limited

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Email : commercial@idmalab.co.in

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**TEST REPORT**

21	Fecal Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
22	E.Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	0.001	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	0.01	IS:3025 (Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	0.003	IS:3025 (Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	Not Specified	IS:3025 (Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	0.05	IS:3025 (Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	0.05/1.5	IS:3025 (Part-42)
29	Zinc	mg/L	0.0065	5/15	IS:3025 (Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.01/0.05	IS:3025 (Part-37)
31	Iron	mg/L	0.0091	1	IS:3025 (Part-53)

Note: \*As per IS10500:2012 (Desirable/Permissible)

Reviewed by

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## TEST REPORT

LAB NO.	101025N-E-001	PageNo. 1/1
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai Begusarai Bihar- 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
Type of Sample	Ground Water	
Quantity	6 Litre	
Packing, Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	08.10.2025	
Location of Sampling	Township	
Date of Receiving of sample	10.10.2025	
Period of Analysis	10.10.2025 to 17.10.2025	
Date of Reporting	17.10.2025	
Sampling Protocol	IS:17614	
Testing Protocol	IS: 10500	

S.No.	Test Parameters	Units	Results	Limits	Testing Method
1	pH	.....	7.29	6.5-8.5	IS:3025 (Part-11)
2	Turbidity	NTU	<1	1/5	IS:3025 (Part-10)
3	Temperature	°C	24.2	Not Specified	IS:3025(Part-9)
4	Conductivity	µS/cm	482.8	Not Specified	IS: 3025 (Part-14)
5	Chloride	mg/L	16	250/1000	IS:3025 (Part-32)
6	Fluoride	mg/L	0.52	1/1.5	APHA4500D 24thEdition,2023
7	Total Suspended Solid	mg/L	<5	Not Specified	IS:3025 (Part-17)
8	Total Dissolved Solids	mg/L	284	500/2000	IS:3025 (Part-16)
9	Total Alkalinity	mg/L	182	200/600	IS:3025 (Part-23)
10	Calcium Hardness	mg/L	88	Not Specified	IS:3025 (Part-21)
11	Magnesium Hardness	mg/L	78	Not Specified	IS:3025 (Part-21)
12	Total Hardness	mg/L	166	200/600	IS:3025 (Part-21)
13	Sulphates	mg/L	12.8	200/400	IS:3025 (Part-24)
14	Sodium	mg/L	30.2	Not Specified	IS:3025 (Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	0.5/1.0	IS:3025 (Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	0.03/0.2	IS:3025 (Part-55)
17	Nitrates	mg/L	0.86	45	IS:3025 (Part-34)
18	DO	mg/L	8	Not Specified	IS:3025 (Part-38)
19	COD	mg/L	<4	Not Specified	IS:3025 (Part-58)
20	BOD	mg/L	<2	Not Specified	IS:3025 (Part-44)



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**TEST REPORT**

21	Fecal Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
22	E.Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	0.001	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	0.01	IS:3025 (Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	0.003	IS:3025 (Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	Not Specified	IS:3025 (Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	0.05	IS:3025 (Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	0.05/1.5	IS:3025 (Part-42)
29	Zinc	mg/L	0.008	5/15	IS:3025 (Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.01/0.05	IS:3025 (Part-37)
31	Iron	mg/L	0.0079	1	IS:3025 (Part-53)

Note: \*As per IS:30500:2012 (Desirable/Permissible)

Reviewed by



Authorized by

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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		081125N-E-001		PageNo. 1/2	
Customer		1072- Barauni Thermal Power Plant Project NH-31, Barauni, Begusarai, Begusarai, Bihar -851116 India. Begusarai, Bihar -851116 India.			
Work Order No.		4000351821-057-1019 Date: 25.01.2025			
Type of Sample		Ground Water			
Quantity		6 Litre			
Packing, Markings		Plastic Can 5 Litre+1 Litre sterile glass bottle.			
Mode of collection of Sample		Sampling by Laboratories			
Sample Collected by		Idma Lab Representative			
Date of Sampling		05.11.2025			
Location of Sampling		Township			
Date of Receiving of sample		08.11.2025			
Period of Analysis		08.11.2025 to 17.11.2025			
Date of Reporting		17.11.2025			
Sampling Protocol		IS:17614			
Testing Protocol		IS: 10500			
S.No.	Test Parameters	Units	Results	Limits	Testing Method
1	pH	.....	7.25	6.5-8.5	IS:3025 (Part-11)
2	Turbidity	NTU	<1	1/5	IS:3025 (Part-10)
3	Temperature	°C	24.5	Not Specified	IS:3025(Part-9)
4	Conductivity	µS/cm	501.5	Not Specified	IS: 3025 (Part-14)
5	Chloride	mg/L	18	250/1000	IS:3025 (Part-32)
6	Fluoride	mg/L	0.47	1/1.5	APHA4500D 24thEdition,2023
7	Total Suspended Solid	mg/L	<5	Not Specified	IS:3025 (Part-17)
8	Total Dissolved Solids	mg/L	295	500/2000	IS:3025 (Part-16)
9	Total Alkalinity	mg/L	179	200/600	IS:3025 (Part-23)
10	Calcium Hardness	mg/L	89	Not Specified	IS:3025 (Part-21)
11	Magnesium Hardness	mg/L	72	Not Specified	IS:3025 (Part-21)
12	Total Hardness	mg/L	161	200/600	IS:3025 (Part-21)
13	Sulphates	mg/L	13.1	200/400	IS:3025 (Part-24)



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## TEST REPORT

LAB NO.		081125N-E-001		PageNo. 2/2	
14	Sodium	mg/L	30.6	Not Specified	IS:3025 (Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	0.5/1.0	IS:3025 (Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	0.03/0.2	IS:3025 (Part-55)
17	Nitrates	mg/L	0.79	45	IS:3025 (Part-34)
18	DO	mg/L	9	Not Specified	IS:3025 (Part-38)
19	COD	mg/L	<4	Not Specified	IS:3025 (Part-58)
20	BOD	mg/L	<2	Not Specified	IS:3025 (Part-44)
21	Fecal Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
22	E. Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	0.001	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	0.01	IS:3025 (Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	0.003	IS:3025 (Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	Not Specified	IS:3025 (Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	0.05	IS:3025 (Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	0.05/1.5	IS:3025 (Part-42)
29	Zinc	mg/L	0.0078	5/15	IS:3025 (Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.01/0.05	IS:3025 (Part-37)
31	Iron	mg/L	0.008	1	IS:3025 (Part-53)

Note: \*As per IS10500:2012 (Desirable/Permissible)

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## TEST REPORT

LAB NO.	081125N-E-002	PageNo. 1/2			
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni, Begusarai, Begusarai, Bihar -851116 India. Begusarai, Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
Type of Sample	Ground Water				
Quantity	6 Litre				
Packing, Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.				
Mode of collection of Sample	Sampling by Laboratories				
Sample Collected by	Idma Lab Representative				
Date of Sampling	05.11.2025				
Location of Sampling	Handpump Near Ash Dyke				
Date of Receiving of sample	08.11.2025				
Period of Analysis	08.11.2025 to 17.11.2025				
Date of Reporting	17.11.2025				
Sampling Protocol	IS:17614				
Testing Protocol	IS: 10500				
S.No.	Test Parameters	Units	Results	Limits	Testing Method
1	pH	....	7.24	6.5-8.5	IS:3025 (Part-11)
2	Turbidity	NTU	<1	1/5	IS:3025 (Part-10)
3	Temperature	°C	24.2	Not Specified	IS:3025(Part-9)
4	Conductivity	µS/cm	440.3	Not Specified	IS: 3025 (Part-14)
5	Chloride	mg/L	12	250/1000	IS:3025 (Part-32)
6	Fluoride	mg/L	0.52		APHA4500D 24thEdition,2023
7	Total Suspended Solid	mg/L	<5	Not Specified	IS:3025 (Part-17)
8	Total Dissolved Solids	mg/L	259	500/2000	IS:3025 (Part-16)
9	Total Alkalinity	mg/L	168	200/600	IS:3025 (Part-23)
10	Calcium Hardness	mg/L	81.7	Not Specified	IS:3025 (Part-21)

*Renu*  
17/11/25

Renu  
Sr. Analyst  
Authorised Signatory

Kartar Singh,  
Tech. Ingt.  
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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## TEST REPORT

LAB NO.		081125N-E-002		PageNo. 2/2	
11	Magnesium Hardness	mg/L	86.3	Not Specified	IS:3025 (Part-21)
12	Total Hardness	mg/L	168	200/600	IS:3025 (Part-21)
13	Sulphates	mg/L	18.7	200/400	IS:3025 (Part-24)
14	Sodium	mg/L	33.5	Not Specified	IS:3025 (Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	0.5/1.0	IS:3025 (Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	0.03/0.2	IS:3025 (Part-55)
17	Nitrates	mg/L	0.95	45	IS:3025 (Part-34)
18	DO	mg/L	8.6	Not Specified	IS:3025 (Part-38)
19	COD	mg/L	<4	Not Specified	IS:3025 (Part-58)
20	BOD	mg/L	<2	Not Specified	IS:3025 (Part-44)
21	Fecal Coliforms	MPN/100ml	Absent	Shall not be Detectable	IS: 1622:1981
22	E. Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	0.001	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	0.01	IS:3025 (Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	0.003	IS:3025 (Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	Not Specified	IS:3025 (Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	0.05	IS:3025 (Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	0.05/1.5	IS:3025 (Part-42)
29	Zinc	mg/L	0.0062	5/15	IS:3025 (Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.01/0.05	IS:3025 (Part-37)
31	Iron	mg/L	0.0094	1	IS:3025 (Part-53)

Note: \*As per IS10500:2012 (Desirable/Permissible)

Reviewed by

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## TEST REPORT

LAB NO.	041225N-E-001	Page No. 1/2			
Customer	1072-Barauni Thermal Power Plant Project, NH-31, Barauni, Begusarai, Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
Type of Sample	Ground Water				
Quantity	6 Litre				
Packing, Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.				
Mode of collection of Sample	Sampling by Laboratories				
Sample Collected by	Idma Lab Representative				
Date of Sampling	02.12.2025				
Location of Sampling	Township				
Date of Receiving of sample	04.12.2025				
Period of Analysis	04.12.2025 to 10.12.2025				
Date of Reporting	10.12.2025				
Sampling Protocol	IS:17614				
Testing Protocol	IS: 10500				
S.No.	Test Parameters	Units	Results	Limits	Testing Method
1	pH	.....	7.31	6.5-8.5	IS:3025 (Part-11)
2	Turbidity	NTU	<1	1/5	IS:3025 (Part-10)
3	Temperature	°C	23.6	Not Specified	IS:3025(Part-9)
4	Conductivity	µS/cm	520.2	Not Specified	IS: 3025 (Part-14)
5	Chloride	mg/L	15	250/1000	IS:3025 (Part-32)
6	Fluoride	mg/L	0.44	1/1.5	APHA4500D 24thEdition,2023
7	Total Suspended Solid	mg/L	<5	Not Specified	IS:3025 (Part-17)
8	Total Dissolved Solids	mg/L	306	500/2000	IS:3025 (Part-16)
9	Total Alkalinity	mg/L	182	200/600	IS:3025 (Part-23)
10	Calcium Hardness	mg/L	92	Not Specified	IS:3025 (Part-21)
11	Magnesium Hardness	mg/L	76	Not Specified	IS:3025 (Part-21)
12	Total Hardness	mg/L	168	200/600	IS:3025 (Part-21)
13	Sulphates	mg/L	14.8	200/400	IS:3025 (Part-24)
14	Sodium	mg/L	31.3	Not Specified	IS:3025 (Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	0.5/1.0	IS:3025 (Part-57)



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## TEST REPORT

LAB NO.		041225N-E-001		Page No. 2/2	
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	0.03/0.2	IS:3025 (Part-55)
17	Nitrates	mg/L	0.82	45	IS:3025 (Part-34)
18	DO	mg/L	8.8	Not Specified	IS:3025 (Part-38)
19	COD	mg/L	<4	Not Specified	IS:3025 (Part-58)
20	BOD	mg/L	<2	Not Specified	IS:3025 (Part-44)
21	Fecal Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
22	E.Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	0.001	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	0.01	IS:3025 (Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	0.003	IS:3025 (Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	Not Specified	IS:3025 (Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	0.05	IS:3025 (Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	0.05/1.5	IS:3025 (Part-42)
29	Zinc	mg/L	0.0081	5/15	IS:3025 (Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.01/0.05	IS:3025 (Part-37)
31	Iron	mg/L	0.0077	1	IS:3025 (Part-53)

Note:\* As per IS10500:2012 (Desirable/Permissible)

Reviewed by  
*Dipti Jain*Authorized by  
*Kartar Singh*

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## TEST REPORT

LAB NO.	061225N-E-001	Page No. 1/2			
Customer	1072-Barauni Thermal Power Plant Project, NH-31, Barauni, Begusarai, Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
Type of Sample	Ground Water				
Quantity	6 Litre				
Packing, Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.				
Mode of collection of Sample	Sampling by Laboratories				
Sample Collected by	Idma Lab Representative				
Date of Sampling	04.12.2025				
Location of Sampling	Handpump Near Ash Dyke				
Date of Receiving of sample	06.12.2025				
Period of Analysis	06.12.2025 to 18.12.2025				
Date of Reporting	18.12.2025				
Sampling Protocol	IS:17614				
Testing Protocol	IS: 10500				
S.No.	Test Parameters	Units	Results	Limits	Testing Method
1	pH	.....	7.22	6.5-8.5	IS:3025 (Part-11)
2	Turbidity	NTU	<1	1/5	IS:3025 (Part-10)
3	Temperature	°C	23.8	Not Specified	IS:3025(Part-9)
4	Conductivity	µS/cm	462.4	Not Specified	IS: 3025 (Part-14)
5	Chloride	mg/L	18	250/1000	IS:3025 (Part-32)
6	Fluoride	mg/L	0.57		APHA4500D 24thEdition,2023
7	Total Suspended Solid	mg/L	<5	Not Specified	IS:3025 (Part-17)
8	Total Dissolved Solids	mg/L	272	500/2000	IS:3025 (Part-16)
9	Total Alkalinity	mg/L	170	200/600	IS:3025 (Part-23)
10	Calcium Hardness	mg/L	84	Not Specified	IS:3025 (Part-21)
11	Magnesium Hardness	mg/L	80	Not Specified	IS:3025 (Part-21)
12	Total Hardness	mg/L	164	200/600	IS:3025 (Part-21)
13	Sulphates	mg/L	19.4	200/400	IS:3025 (Part-24)
14	Sodium	mg/L	34.2	Not Specified	IS:3025 (Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	0.5/1.0	IS:3025 (Part-57)

*06/12/25*  
  
Dipti Jain  
Asst. Tech. Manager  
Panchkula

*18/12/25*  
  
Kartar Singh  
Tech. Mgr.  
Panchkula

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## TEST REPORT

LAB NO.		061225N-E-001		Page No. 2/2	
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	0.03/0.2	IS:3025 (Part-55)
17	Nitrates	mg/L	0.86	45	IS:3025 (Part-34)
18	DO	mg/L	8.4	Not Specified	IS:3025 (Part-38)
19	COD	mg/L	<4	Not Specified	IS:3025 (Part-58)
20	BOD	mg/L	<2	Not Specified	IS:3025 (Part-44)
21	Fecal Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
22	E.Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	0.001	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	0.01	IS:3025 (Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	0.003	IS:3025 (Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	Not Specified	IS:3025 (Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	0.05	IS:3025 (Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	0.05/1.5	IS:3025 (Part-42)
29	Zinc	mg/L	0.0056	5/15	IS:3025 (Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.01/0.05	IS:3025 (Part-37)
31	Iron	mg/L	0.0096	1	IS:3025 (Part-53)

Note:\*As per IS10500:2012 (Desirable/Permissible)

Reviewed by



Authorized by



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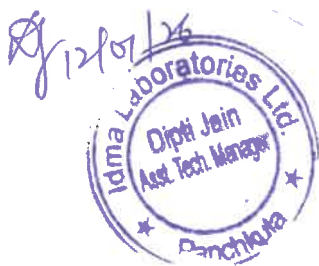
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# Idma Laboratories Limited

## TEST REPORT

LAB NO.	050126N-E-001	Page No. 1/2			
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar - 851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
Type of Sample	Ground Water				
Quantity	6 Litre				
Packing, Markings	Plastic Can 5 Litre+ 1Litre sterile glass bottle.				
Mode of collection of Sample	Sampling by Laboratories				
Sample Collected by	Idma Lab Representative				
Date of Sampling	02.01.2026				
Location of Sampling	Township, Handpump Nera Netaji Bhawan				
Date of Receiving of sample	05.01.2026				
Period of Analysis	05.01.2026 to 12.01.2026				
Date of Reporting	12.01.2026				
Sampling Protocol	IS:17614				
Testing Protocol	IS: 10500				
S. No.	Test Parameters	Units	Results	Limits	Testing Method
1	pH	.....	7.39	6.5-8.5	IS: 3025 (Part-11)
2	Turbidity	NTU	<1	1/5	IS: 3025 (Part-10)
3	Temperature	°C	23.8	Not Specified	IS: 3025 (Part-9)
4	Conductivity	µS/cm	549.1	Not Specified	IS: 3025 (Part-14)
5	Chloride	mg/L	18	250/1000	IS: 3025 (Part-32)
6	Fluoride	mg/L	0.48	1/1.5	APHA 4500 D 24th Edition ,2023
7	Total Suspended Solid	mg/L	<5	Not Specified	IS: 3025 (Part-17)
8	Total Dissolved Solids	mg/L	323	500/2000	IS: 3025 (Part-16)
9	Total Alkalinity	mg/L	185	200/600	IS: 3025 (Part-23)
10	Calcium Hardness	mg/L	95	Not Specified	IS: 3025 (Part-21)
11	Magnesium Hardness	mg/L	77	Not Specified	IS: 3025 (Part-21)
12	Total Hardness	mg/L	172	200/600	IS: 3025 (Part-21)
13	Sulphates	mg/L	15.4	200/400	IS: 3025 (Part-24)
14	Sodium	mg/L	30.6	Not Specified	IS: 3025 (Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	0.5/1.0	IS: 3025 (Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	0.03/0.2	IS: 3025 (Part-55)
17	Nitrates	mg/L	0.78	45	IS: 3025 (Part-34)
18	DO	mg/L	7.9	Not Specified	IS: 3025 (Part-38)
19	COD	mg/L	<4	Not Specified	IS: 3025 (Part-58)
20	BOD	mg/L	<2	Not Specified	IS: 3025 (Part-44)

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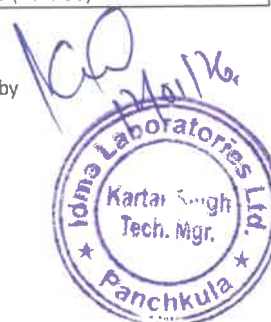
LAB NO.		050126N-E-001		Page No. 2/2	
21	Fecal Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
22	E. Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	0.001	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	0.01	IS: 3025 (Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	0.003	IS: 3025 (Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	Not Specified	IS: 3025 (Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	0.05	IS: 3025 (Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	0.05/1.5	IS: 3025 (Part-42)
29	Zinc	mg/L	0.0076	5/15	IS: 3025 (Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.01/0.05	IS: 3025 (Part-37)
31	Iron	mg/L	0.0081	1	IS: 3025 (Part-53)

Note: \*As per IS 10500:2012 (Desirable/Permissible)

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# Idma Laboratories Limited

## TEST REPORT

LAB NO.	070126N-E-001	Page No. 1/2			
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar - 851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
Type of Sample	Ground Water				
Quantity	6 Litre				
Packing , Markings	Plastic Can 5 Litre+ 1Litre sterile glass bottle.				
Mode of collection of Sample	Sampling by Laboratories				
Sample Collected by	Idma Lab Representative				
Date of Sampling	05.01.2026				
Location of Sampling	Ash Dyke Area Village Chakwali				
Date of Receiving of sample	07.01.2026				
Period of Analysis	07.01.2026 to 16.01.2026				
Date of Reporting	16.01.2026				
Sampling Protocol	IS:17614				
Testing Protocol	IS: 10500				
S. No.	Test Parameters	Units	Results	Limits	Testing Method
1	pH	.....	7.34	6.5-8.5	IS: 3025 (Part-11)
2	Turbidity	NTU	<1	1/5	IS: 3025 (Part-10)
3	Temperature	°C	23.8	Not Specified	IS: 3025 (Part-9)
4	Conductivity	µS/cm	470.9	Not Specified	IS: 3025 (Part-14)
5	Chloride	mg/L	15	250/1000	IS: 3025 (Part-32)
6	Fluoride	mg/L	0.52		APHA 4500 D 24th Edition ,2023
7	Total Suspended Solid	mg/L	<5	Not Specified	IS: 3025 (Part-17)
8	Total Dissolved Solids	mg/L	277	500/2000	IS: 3025 (Part-16)
9	Total Alkalinity	mg/L	178	200/600	IS: 3025 (Part-23)
10	Calcium Hardness	mg/L	80.5	Not Specified	IS: 3025 (Part-21)
11	Magnesium Hardness	mg/L	84.5	Not Specified	IS: 3025 (Part-21)
12	Total Hardness	mg/L	165	200/600	IS: 3025 (Part-21)
13	Sulphates	mg/L	21.8	200/400	IS: 3025 (Part-24)
14	Sodium	mg/L	33.5	Not Specified	IS: 3025 (Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	0.5/1.0	IS: 3025 (Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	0.03/0.2	IS: 3025 (Part-55)
17	Nitrates	mg/L	0.87	45	IS: 3025 (Part-34)
18	DO	mg/L	8	Not Specified	IS: 3025 (Part-38)
19	COD	mg/L	<4	Not Specified	IS: 3025 (Part-58)
20	BOD	mg/L	<2	Not Specified	IS: 3025 (Part-44)

16/01/26



16/01/26

**Idma Laboratories Limited**

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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		070126N-E-001		Page No. 2/2	
21	Fecal Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
22	E. Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS: 1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	0.001	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	0.01	IS: 3025 (Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	0.003	IS: 3025 (Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	Not Specified	IS: 3025 (Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	0.05	IS: 3025 (Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	0.05/1.5	IS: 3025 (Part-42)
29	Zinc	mg/L	0.0066	5/15	IS: 3025 (Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.01/0.05	IS: 3025 (Part-37)
31	Iron	mg/L	0.0094	1	IS: 3025 (Part-53)

Note: \* As per IS 10500:2012 (Desirable/Permissible)

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## TEST REPORT

LAB NO.	070226N-E-001	Page No.1/2			
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar- 851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
Type of Sample	Ground Water				
Quantity	6 Litre				
Packing, Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.				
Mode of collection of Sample	Sampling by Laboratories				
Sample Collected by	Idma Lab Representative				
Date of Sampling	05.02.2026				
Location of Sampling	Near Plant Village Chakwali				
Date of Receiving of Sample	07.02.2026				
Period of Analysis	07.02.2026 to 16.02.2026				
Date of Reporting	16.02.2026				
Sampling Protocol	IS:17614				
Testing Protocol	IS:10500				
S.No.	Test Parameters	Units	Results	Limits	Testing Method
1	pH	.....	7.46	6.5-8.5	IS:3025(Part-11)
2	Turbidity	NTU	<1	1/5	IS:3025(Part-10)
3	Temperature	°C	24.3	Not Specified	IS:3025(Part-9)
4	Conductivity	µS/cm	516.8	Not Specified	IS:3025(Part-14)
5	Chloride	mg/L	16	250/1000	IS:3025(Part-32)
6	Fluoride	mg/L	0.63		APHA4500D24thEdition,2023
7	Total Suspended Solid	mg/L	<5	Not Specified	IS:3025(Part-17)
8	Total Dissolved Solids	mg/L	304	500/2000	IS:3025(Part-16)
9	Total Alkalinity	mg/L	188	200/600	IS:3025(Part-23)
10	Calcium Hardness	mg/L	84	Not Specified	IS:3025(Part-21)
11	Magnesium Hardness	mg/L	84	Not Specified	IS:3025(Part-21)
12	Total Hardness	mg/L	168	200/600	IS:3025(Part-21)
13	Sulphates	mg/L	23.2	200/400	IS:3025(Part-24)
14	Sodium	mg/L	33.8	Not Specified	IS:3025(Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	0.5/1.0	IS:3025(Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	0.03/0.2	IS:3025(Part-55)
17	Nitrates	mg/L	0.72	45	IS:3025(Part-34)
18	DO	mg/L	6.8	Not Specified	IS:3025(Part-38)
19	COD	mg/L	<4	Not Specified	IS:3025(Part-58)
20	BOD	mg/L	<2	Not Specified	IS:3025(Part-44)



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## TEST REPORT

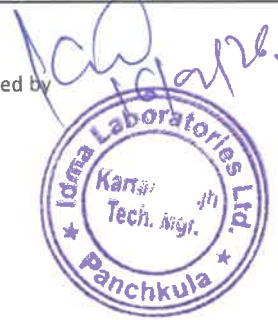
LAB NO.		070226N-E-001		Page No.2/2	
21	Fecal Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS:1622:1981
22	E. Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS:1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	0.001	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	0.01	IS:3025(Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	0.003	IS:3025(Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	Not Specified	IS:3025(Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	0.05	IS:3025(Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	0.05/1.5	IS:3025(Part-42)
29	Zinc	mg/L	0.0071	5/15	IS:3025(Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.01/0.05	IS:3025(Part-37)
31	Iron	mg/L	0.012	1	IS:3025(Part-53)

Note:\*As per IS 10500:2012(Desirable/Permissible)

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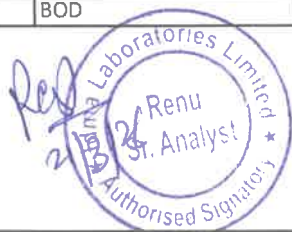


# Annexure-VII

## Idma Laboratories Limited

### TEST REPORT

LAB NO.	140326N-E-001	PageNo.1/2			
Customer	1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.				
Work Order No.	4000351821-057-1019 Date: 25.01.2025				
Type of Sample	Ground Water				
Quantity	6 Litre				
Packing, Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.				
Mode of collection of Sample	Sampling by Laboratories				
Sample Collected by	Idma Lab Representative				
Date of Sampling	12.03.2026				
Location of Sampling	Near Plant Village Chakwali				
Date of Receiving of sample	14.03.2026				
Period of Analysis	14.03.2026 to 21.03.2026				
Date of Reporting	21.03.2026				
Sampling Protocol	IS:17614				
Testing Protocol	IS:10500				
S.No.	Test Parameters	Units	Results	Limits	Testing Method
1	pH	.....	7.53	6.5-8.5	IS:3025(Part-11)
2	Turbidity	NTU	<1	1/5	IS:3025(Part-10)
3	Temperature	°C	24.9	Not Specified	IS:3025(Part-9)
4	Conductivity	µS/cm	542.3	Not Specified	IS:3025(Part-14)
5	Chloride	mg/L	15	250/1000	IS:3025(Part-32)
6	Fluoride	mg/L	0.71		APHA4500D24thEdition,2023
7	Total Suspended Solid	mg/L	<5	Not Specified	IS:3025(Part-17)
8	Total Dissolved Solids	mg/L	319	500/2000	IS:3025(Part-16)
9	Total Alkalinity	mg/L	192	200/600	IS:3025(Part-23)
10	Calcium Hardness	mg/L	88	Not Specified	IS:3025(Part-21)
11	Magnesium Hardness	mg/L	84	Not Specified	IS:3025(Part-21)
12	Total Hardness	mg/L	172	200/600	IS:3025(Part-21)
13	Sulphates	mg/L	24.1	200/400	IS:3025(Part-24)
14	Sodium	mg/L	34.2	Not Specified	IS:3025(Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	0.5/1.0	IS:3025(Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	0.03/0.2	IS:3025(Part-55)
17	Nitrates	mg/L	0.76	45	IS:3025(Part-34)
18	DO	mg/L	6.3	Not Specified	IS:3025(Part-38)
19	COD	mg/L	<4	Not Specified	IS:3025(Part-58)
20	BOD	mg/L	<2	Not Specified	IS:3025(Part-44)



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# Annexure-VII

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### TEST REPORT

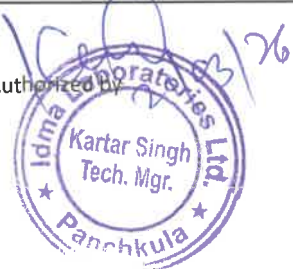
LAB NO.		140326N-E-001		PageNo.2/2	
21	Fecal Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS:1622:1981
22	E. Coliforms	MPN/100 ml	Absent	Shall not be Detectable	IS:1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	0.001	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	0.01	IS:3025(Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	0.003	IS:3025(Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	Not Specified	IS:3025(Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	0.05	IS:3025(Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	0.05/1.5	IS:3025(Part-42)
29	Zinc	mg/L	0.0075	5/15	IS:3025(Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.01/0.05	IS:3025(Part-37)
31	Iron	mg/L	0.016	1	IS:3025(Part-53)

Note: \*As per IS10500:2012 (Desirable/Permissible)

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## TEST REPORT

LAB NO.	081025N-E-006	PageNo.1/1
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai Begusarai Bihar- 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
Type of Sample	Surface Water	
Quantity	6 Litre	
Packing , Markings	PlasticCan5Litre+1Litresterileglass bottle.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	06.10.2025	
Location of Sampling	Township Pond	
Date of Receiving of sample	08.10.2025	
Period of Analysis	08.10.2025 to 17.10.2025	
Date of Reporting	17.10.2025	
Sampling Protocol	IS:17614	
Testing Protocol	IS:10500	

S.No.	Test Parameters	Units	Results	Class'A'	Class'B'	Class'C'	Class'D'	Class'E'	Testing Method
1	pH	.....	7.64	6.5-8.5	6.5-8.5	6.0-9.0	6.0-8.5	6.0-8.5	IS:3025(Part-11)
2	Turbidity	NTU	1.8	.....	.....	.....	.....	.....	IS:3025(Part-10)
3	Temperature	°C	25.1	.....	.....	.....	.....	.....	IS:3025(Part-9)
4	Conductivity	µS/cm	535.5	.....	.....	.....	1000.0	2250.0	IS:3025(Part-14)
5	Chloride	mg/L	45	250	.....	600	.....	600	IS:3025(Part-32)
6	Fluoride	mg/L	0.75	1.5	1.5	1.5	.....	.....	APHA4500D24thEdition,2023
7	Total Suspended Solid	mg/L	25	.....	.....	.....	.....	.....	IS:3025(Part-17)
8	Total Dissolved Solids	mg/L	315	500	.....	1500	.....	2100	IS:3025(Part-16)
9	Total Alkalinity	mg/L	188	.....	.....	.....	.....	.....	IS:3025(Part-23)
10	Calcium Hardness	mg/L	86.8	.....	.....	.....	.....	.....	IS:3025(Part-21)
11	Magnesium Hardness	mg/L	88.2	.....	.....	.....	.....	.....	IS:3025(Part-21)
12	Total Hardness	mg/L	175	200	.....	.....	.....	.....	IS:3025(Part-21)
13	Sulphates	mg/L	22.5	400	.....	400	.....	1000	IS:3025(Part-24)
14	Sodium	mg/L	41.6	.....	.....	.....	.....	.....	IS:3025(Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	2	IS:3025(Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-55)
17	Nitrates	mg/L	3.2	20	.....	50	.....	.....	IS:3025(Part-34)
18	DO	mg/L	8.1	6	5	4	4	.....	IS:3025(Part-38)
19	COD	mg/L	20	.....	.....	.....	.....	.....	IS:3025(Part-58)
20	BOD	mg/L	1.5	2	3	3	.....	.....	IS:3025(Part-44)
21	Oil & Grease	mg/L	<0.5	.....	.....	.....	.....	.....	IS:3025(Part-39)
22	Fecal Coliforms	MPN/100 ml	35	.....	.....	.....	.....	.....	IS:1622:1981
23	E.Coliforms	MPN/100 ml	Absent	.....	.....	.....	.....	.....	IS:1622:1981
24	Mercury	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	ILL/SOP/ENV/044
25	Lead	mg/L	BLQ(LOQ-0.0005)	0.1	.....	0.1	.....	.....	IS:3025(Part-47)
26	Cadmium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-41)
27	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	.....	.....	.....	.....	.....	IS:3025(Part-52)
28	Total Chromium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-52)
29	Copper	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-42)
30	Zinc	mg/L	0.0017	.....	.....	.....	.....	.....	IS:3025(Part-49)
31	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.05	0.2	0.2	.....	.....	IS:3025(Part-37)
32	Iron	mg/L	0.0075	0.3	.....	.....	.....	.....	IS:3025(Part-53)

Note: \*Limits as per CPCB

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## TEST REPORT

LAB NO.	011125N-E-001	PageNo.1/1
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai, Begusarai Bihar -851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
Type of Sample	Surface Water	
Quantity	6 Litre	
Packing, Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	30.10.2025	
Location of Sampling	Ganga River	
Date of Receiving of sample	01.11.2025	
Period of Analysis	01.11.2025 to 14.11.2025	
Date of Reporting	14.11.2025	
Sampling Protocol	IS:17614	
Testing Protocol	.....	

S.No.	Test Parameters	Units	Result :	Testing Method
1	pH	.....	7.31	IS:3025(Part-11)
2	Turbidity	NTU	220	IS:3025(Part-10)
3	Temperature	°C	23.8	IS:3025(Part-9)
4	Conductivity	µS/cm	323	IS:3025(Part-14)
5	Chloride	mg/L	15	IS:3025(Part-32)
6	Fluoride	mg/L	0.21	APHA4500D24thEdition,2023
7	Total Suspended Solid	mg/L	75	IS:3025(Part-17)
8	Total Dissolved Solids	mg/L	190	IS:3025(Part-16)
9	Total Alkalinity	mg/L	160	IS:3025(Part-23)
10	Calcium Hardness	mg/L	80	IS:3025(Part-21)
11	Magnesium Hardness	mg/L	58	IS:3025(Part-21)
12	Total Hardness	mg/L	138	IS:3025(Part-21)
13	Sulphates	mg/L	4.8	IS:3025(Part-24)
14	Sodium	mg/L	8.5	IS:3025(Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	IS:3025(Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	IS:3025(Part-55)
17	Nitrates	mg/L	0.39	IS:3025(Part-34)
18	DO	mg/L	8.4	IS:3025(Part-38)
19	COD	mg/L	12	IS:3025(Part-58)
20	BOD	mg/L	<2	IS:3025(Part-44)



## Idma Laboratories Limited

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**TEST REPORT**

21	Fecal Coliforms	MPN/100ml	10	IS:1622:1981
22	E.Coliforms	MPN/100ml	Absent	IS:1622:1981
23	Mercury	mg/L	BLQ(LOQ-0.0005)	ILL/SOP/ENV/044
24	Lead	mg/L	BLQ(LOQ-0.0005)	IS:3025(Part-47)
25	Cadmium	mg/L	BLQ(LOQ-0.0005)	IS:3025(Part-41)
26	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	IS:3025(Part-52)
27	Total Chromium	mg/L	BLQ(LOQ-0.0005)	IS:3025(Part-52)
28	Copper	mg/L	BLQ(LOQ-0.0005)	IS:3025(Part-42)
29	Zinc	mg/L	0.0018	IS:3025(Part-49)
30	Arsenic	mg/L	BLQ(LOQ-0.0005)	IS:3025(Part-37)
31	Iron	mg/L	0.0008	IS:3025(Part-53)

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## TEST REPORT

LAB NO.	061125N-E-001	PageNo:1/2
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni, Begusarai, Begusarai, Bihar -851116 India. Begusarai, Bihar -851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
Type of Sample	Surface Water	
Quantity	6Litre	
Packing , Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.	
Mode of collection of Sample	Sampling by Laboratories	
Sample Collected by	Idma Lab Representative	
Date of Sampling	03.11.2025	
Location of Sampling	Ganga water Reservoir	
Date of Receiving of sample	06.11.2025	
Period of Analysis	06.11.2025 to 14.11.2025	
Date of Reporting	14.11.2025	
Sampling Protocol	IS:17614	
Testing Protocol	IS:10500	

S.No.	Test Parameters	Units	Results	Class'A'	Class'B'	Class'C'	Class'D'	Class'E'	Testing Method
1	pH	.....	7.85	6.5-8.5	6.5-8.5	6.0-9.0	6.0-8.5	6.0-8.5	IS:3025(Part-11)
2	Turbidity	NTU	3	.....	.....	.....	.....	.....	IS:3025(Part-10)
3	Temperature	°C	25.7	.....	.....	.....	.....	.....	IS:3025(Part-9)
4	Conductivity	µS/cm	491.3	.....	.....	.....	1000.0	2250.0	IS:3025(Part-14)
5	Chloride	mg/L	30	250	.....	600	.....	600	IS:3025(Part-32)
6	Fluoride	mg/L	0.59	1.5	1.5	1.5	.....	.....	APHA4500D24thEdition,2023
7	Total Suspended Solid	mg/L	21	.....	.....	.....	.....	.....	IS:3025(Part-17)
8	Total Dissolved Solids	mg/L	289	500	.....	1500	.....	2100	IS:3025(Part-16)
9	Total Alkalinity	mg/L	189	.....	.....	.....	.....	.....	IS:3025(Part-23)
10	Calcium Hardness	mg/L	85	.....	.....	.....	.....	.....	IS:3025(Part-21)
11	Magnesium Hardness	mg/L	84.4	.....	.....	.....	.....	.....	IS:3025(Part-21)
12	Total Hardness	mg/L	169.4	200	.....	.....	.....	.....	IS:3025(Part-21)
13	Sulphates	mg/L	22.2	400	.....	400	.....	1000	IS:3025(Part-24)
14	Sodium	mg/L	35.2	.....	.....	.....	.....	.....	IS:3025(Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	2	IS:3025(Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-55)
17	Nitrates	mg/L	2.6	20	.....	50	.....	.....	IS:3025(Part-34)
18	DO	mg/L	8.2	6	5	4	4	.....	IS:3025(Part-38)
19	COD	mg/L	12	.....	.....	.....	.....	.....	IS:3025(Part-58)
20	BOD	mg/L	1.5	2	3	3	.....	.....	IS:3025(Part-44)
21	Oil & Grease	mg/L	<0.5	.....	.....	.....	.....	.....	IS:3025(Part-39)
22	Fecal Coliforms	MPN/100 ml	22	.....	.....	.....	.....	.....	IS:1622:1981
23	E. Coliforms	MPN/100 ml	Absent	.....	.....	.....	.....	.....	IS:1622:1981

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14/11/25

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## TEST REPORT

LAB NO.		061125N-E-001		PageNo:2/2					
24	Mercury	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	ILL/SOP/ENV/044
25	Lead	mg/L	BLQ(LOQ-0.0005)	0.1	.....	0.1	.....	.....	IS:3025(Part-47)
26	Cadmium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-41)
27	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	.....	.....	.....	.....	.....	IS:3025(Part-52)
28	Total Chromium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-52)
29	Copper	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-42)
30	Zinc	mg/L	0.0013	.....	.....	.....	.....	.....	IS:3025(Part-49)
31	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.05	0.2	0.2	.....	.....	IS:3025(Part-37)
32	Iron	mg/L	0.0019	0.3	.....	.....	.....	.....	IS:3025(Part-53)

Note: \*Limits as per CPCB



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## TEST REPORT

LAB NO.	041125N-E-002	PageNo.1/2							
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni, Begusarai, Begusarai, Bihar -851116 India. Begusarai, Bihar -851116 India.								
Work Order No.	4000351821-057-1019 Date: 25.01.2025								
Type of Sample	Surface Water								
Quantity	6Litre								
Packing, Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.								
Mode of collection of Sample	Sampling by Laboratories								
Sample Collected by	Idma Lab Representative								
Date of Sampling	01.11.2025								
Location of Sampling	Colony Tapwater								
Date of Receiving of sample	04.11.2025								
Period of Analysis	04.11.2025 to 15.11.2025								
Date of Reporting	15.11.2025								
Sampling Protocol	IS:17614								
Testing Protocol	IS:10500								
S.No.	Test Parameters	Units	Results	Class'A'	Class'B'	Class'C'	Class'D'	Class'E'	Testing Method
1	pH	.....	7.67	6.5-8.5	6.5-8.5	6.0-9.0	6.0-8.5	6.0-8.5	IS:3025(Part-11)
2	Turbidity	NTU	1	.....	.....	.....	.....	.....	IS:3025(Part-10)
3	Temperature	°C	25.2	.....	.....	.....	.....	.....	IS:3025(Part-9)
4	Conductivity	µS/cm	535.5	.....	.....	.....	1000.0	2250.0	IS:3025(Part-14)
5	Chloride	mg/L	33	250	.....	600	.....	600	IS:3025(Part-32)
6	Fluoride	mg/L	0.75	1.5	1.5	1.5	.....	.....	APHA4500D24thEdition,2023
7	Total Suspended Solid	mg/L	22	.....	.....	.....	.....	.....	IS:3025(Part-17)
8	Total Dissolved Solids	mg/L	315	500	.....	1500	.....	2100	IS:3025(Part-16)
9	Total Alkalinity	mg/L	199	.....	.....	.....	.....	.....	IS:3025(Part-23)
10	Calcium Hardness	mg/L	90.1	.....	.....	.....	.....	.....	IS:3025(Part-21)
11	Magnesium Hardness	mg/L	95.9	.....	.....	.....	.....	.....	IS:3025(Part-21)
12	Total Hardness	mg/L	186	200	.....	.....	.....	.....	IS:3025(Part-21)
13	Sulphates	mg/L	23.3	400	.....	400	.....	1000	IS:3025(Part-24)
14	Sodium	mg/L	40.8	.....	.....	.....	.....	.....	IS:3025(Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	2	IS:3025(Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-55)
17	Nitrates	mg/L	2.8	20	.....	50	.....	.....	IS:3025(Part-34)
18	DO	mg/L	8.1	6	5	4	4	.....	IS:3025(Part-38)
19	COD	mg/L	15	.....	.....	.....	.....	.....	IS:3025(Part-58)
20	BOD	mg/L	1.5	2	3	3	.....	.....	IS:3025(Part-44)

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## TEST REPORT

LAB NO.		041125N-E-002		PageNo.2/2					
21	Oil & Grease	mg/L	<0.5	.....	.....	.....	.....	.....	IS:3025(Part-39)
22	Fecal Coliforms	MPN/100 ml	28	.....	.....	.....	.....	.....	IS:1622:1981
23	E. Coliforms	MPN/100 ml	Absent	.....	.....	.....	.....	.....	IS:1622:1981
24	Mercury	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	ILL/SOP/ENV/044
25	Lead	mg/L	BLQ(LOQ-0.0005)	0.1	.....	0.1	.....	.....	IS:3025(Part-47)
26	Cadmium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-41)
27	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	.....	.....	.....	.....	.....	IS:3025(Part-52)
28	Total Chromium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-52)
29	Copper	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-42)
30	Zinc	mg/L	0.0011	.....	.....	.....	.....	.....	IS:3025(Part-49)
31	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.05	0.2	0.2	.....	.....	IS:3025(Part-37)
32	Iron	mg/L	0.0014	0.3	.....	.....	.....	.....	IS:3025(Part-53)

Note: \*Limits as per CPCB

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## TEST REPORT

LAB NO.	041225N-E-002	PageNo.1/2							
Customer	1072-Barauni Thermal Power Plant Project, NH-31, Barauni, Begusarai, Begusarai Bihar -851116 India.								
Work Order No.	4000351821-057-1019 Date: 25.01.2025								
Type of Sample	Surface Water								
Quantity	6 Litre								
Packing , Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.								
Mode of collection of Sample	Sampling by Laboratories								
Sample Collected by	Idma Lab Representative								
Date of Sampling	02.12.2025								
Location of Sampling	Township Pond								
Date of Receiving of sample	04.12.2025								
Period of Analysis	04.12.2025 to 12.12.2025 to								
Date of Reporting	12.12.2025								
Sampling Protocol	IS:17614								
Testing Protocol	IS:10500								
S.No.	Test Parameters	Units	Results	Class'A'	Class'B'	Class'C'	Class'D'	Class'E'	Testing Method
1	pH	.....	7.78	6.5-8.5	6.5-8.5	6.0-9.0	6.0-8.5	6.0-8.5	IS:3025(Part-11)
2	Turbidity	NTU	4	.....	.....	.....	.....	.....	IS:3025(Part-10)
3	Temperature	°C	23.9	.....	.....	.....	.....	.....	IS:3025(Part-9)
4	Conductivity	µS/cm	537.2	.....	.....	.....	1000.0	2250.0	IS:3025(Part-14)
5	Chloride	mg/L	40	250	.....	600	.....	600	IS:3025(Part-32)
6	Fluoride	mg/L	0.65	1.5	1.5	1.5	.....	.....	APHA4500D24thEdition, 2023
7	Total Suspended Solid	mg/L	25	.....	.....	.....	.....	.....	IS:3025(Part-17)
8	Total Dissolved Solids	mg/L	316	500	.....	1500	.....	2100	IS:3025(Part-16)
9	Total Alkalinity	mg/L	180	.....	.....	.....	.....	.....	IS:3025(Part-23)
10	Calcium Hardness	mg/L	88	.....	.....	.....	.....	.....	IS:3025(Part-21)
11	Magnesium Hardness	mg/L	74	.....	.....	.....	.....	.....	IS:3025(Part-21)
12	Total Hardness	mg/L	162	200	.....	.....	.....	.....	IS:3025(Part-21)
13	Sulphates	mg/L	20.6	400	.....	400	.....	1000	IS:3025(Part-24)
14	Sodium	mg/L	33.9	.....	.....	.....	.....	.....	IS:3025(Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	2	IS:3025(Part-57)



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## TEST REPORT

LAB NO.		041225N-E-002						PageNo.1/2
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	IS:3025(Part-55)
17	Nitrates	mg/L	2.4	20	.....	50	.....	IS:3025(Part-34)
18	DO	mg/L	8	6	5	4	4	IS:3025(Part-38)
19	COD	mg/L	12	.....	.....	.....	.....	IS:3025(Part-58)
20	BOD	mg/L	1.8	2	3	3	.....	IS:3025(Part-44)
21	Oil & Grease	mg/L	<0.5	.....	.....	.....	.....	IS:3025(Part-39)
22	Fecal Coliforms	MPN/100 ml	20	.....	.....	.....	.....	IS:1622:1981
23	E.Coliforms	MPN/100 ml	Absent	.....	.....	.....	.....	IS:1622:1981
24	Mercury	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	ILL/SOP/ENV/044
25	Lead	mg/L	BLQ(LOQ-0.0005)	0.1	.....	0.1	.....	IS:3025(Part-47)
26	Cadmium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	IS:3025(Part-41)
27	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	.....	.....	.....	.....	IS:3025(Part-52)
28	Total Chromium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	IS:3025(Part-52)
29	Copper	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	IS:3025(Part-42)
30	Zinc	mg/L	0.0015	.....	.....	.....	.....	IS:3025(Part-49)
31	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.05	0.2	0.2	.....	IS:3025(Part-37)
32	Iron	mg/L	0.0023	0.3	.....	.....	.....	IS:3025(Part-53)

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## TEST REPORT

LAB NO.	031225N-E-002								Page No.1/2
Customer	1072-Barauni Thermal Power Plant Project, NH-31, Barauni, Begusarai, Begusarai Bihar -851116 India.								
Work Order No.	4000351821-057-1019 Date: 25.01.2025								
Type of Sample	Surface Water								
Quantity	6 Litre								
Packing , Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.								
Mode of collection of Sample	Sampling by Laboratories								
Sample Collected by	Idma Lab Representative								
Date of Sampling	01.12.2025								
Location of Sampling	Colony Tap water								
Date of Receiving of sample	03.12.2025								
Period of Analysis	03.12.2025 to 12.12.2025								to
Date of Reporting	12.12.2025								
Sampling Protocol	IS:17614								
Testing Protocol	IS:10500								
S.No.	Test Parameters	Units	Results	Class'A'	Class'B'	Class'C'	Class'D'	Class'E'	Testing Method
1	pH	.....	7.73	6.5-8.5	6.5-8.5	6.0-9.0	6.0-8.5	6.0-8.5	IS:3025(Part-11)
2	Turbidity	NTU	2	.....	.....	.....	.....	.....	IS:3025(Part-10)
3	Temperature	°C	23.8	.....	.....	.....	.....	.....	IS:3025(Part-9)
4	Conductivity	µS/cm	564.4	.....	.....	.....	1000.0	2250.0	IS:3025(Part-14)
5	Chloride	mg/L	35	250	.....	600	.....	600	IS:3025(Part-32)
6	Fluoride	mg/L	0.68	1.5	1.5	1.5	.....	.....	APHA4500D24th Edition, 2023
7	Total Suspended Solid	mg/L	20	.....	.....	.....	.....	.....	IS:3025(Part-17)
8	Total Dissolved Solids	mg/L	332	500	.....	1500	.....	2100	IS:3025(Part-16)
9	Total Alkalinity	mg/L	200	.....	.....	.....	.....	.....	IS:3025(Part-23)
10	Calcium Hardness	mg/L	95	.....	.....	.....	.....	.....	IS:3025(Part-21)
11	Magnesium Hardness	mg/L	85.5	.....	.....	.....	.....	.....	IS:3025(Part-21)
12	Total Hardness	mg/L	180.5	200	.....	.....	.....	.....	IS:3025(Part-21)
13	Sulphates	mg/L	24.4	400	.....	400	.....	1000	IS:3025(Part-24)
14	Sodium	mg/L	42.6	.....	.....	.....	.....	.....	IS:3025(Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	2	IS:3025(Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-55)
17	Nitrates	mg/L	2.5	20	.....	50	.....	.....	IS:3025(Part-34)
18	DO	mg/L	8.2	6	5	4	4	.....	IS:3025(Part-38)
19	COD	mg/L	12	.....	.....	.....	.....	.....	IS:3025(Part-58)
20	BOD	mg/L	1.2	2	3	3	.....	.....	IS:3025(Part-44)



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## TEST REPORT

LAB NO.		031225N-E-002							Page No.2/2
21	Oil & Grease	mg/L	<0.5	.....	.....	.....	.....	IS:3025(Part-39)	
22	Fecal Coliforms	MPN/100 ml	25	.....	.....	.....	.....	IS:1622:1981	
23	E.Coliforms	MPN/100 ml	Absent	.....	.....	.....	.....	IS:1622:1981	
24	Mercury	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	ILL/SOP/ENV/044	
25	Lead	mg/L	BLQ(LOQ-0.0005)	0.1	.....	0.1	.....	IS:3025(Part-47)	
26	Cadmium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	IS:3025(Part-41)	
27	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	.....	.....	.....	.....	IS:3025(Part-52)	
28	Total Chromium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	IS:3025(Part-52)	
29	Copper	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	IS:3025(Part-42)	
30	Zinc	mg/L	0.0014	.....	.....	.....	.....	IS:3025(Part-49)	
31	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.05	0.2	0.2	.....	IS:3025(Part-37)	
32	Iron	mg/L	0.0017	0.3	.....	.....	.....	IS:3025(Part-53)	

Note: \*Limits as per CPCB

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## TEST REPORT

LAB NO.	030126N-E-002	Page No.1/2							
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar - 851116 India.								
Work Order No.	4000351821-057-1019 Date: 25.01.2025								
Type of Sample	Surface Water								
Quantity	6 Litre								
Packing, Markings	Plastic Can 5 Litre+ 1Litre sterile glass bottle.								
Mode of collection of Sample	Sampling by Laboratories								
Sample Collected by	Idma Lab Representative								
Date of Sampling	01.01.2026								
Location of Sampling	Colony Tap water Near Sanjivani Hospital								
Date of Receiving of sample	03.01.2026								
Period of Analysis	03.01.2026 to 10.01.2026 to								
Date of Reporting	10.01.2026								
Sampling Protocol	IS:17614								
Testing Protocol	IS: 10500								
S. No.	Test Parameters	Units	Results	Class 'A'	Class 'B'	Class 'C'	Class 'D'	Class 'E'	Testing Method
1	pH	.....	7.93	6.5-8.5	6.5-8.5	6.0-9.0	6.0-8.5	6.0-8.5	IS: 3025 (Part-11)
2	Turbidity	NTU	5	.....	.....	.....	.....	.....	IS: 3025 (Part-10)
3	Temperature	°C	23.8	.....	.....	.....	.....	.....	IS: 3025 (Part-9)
4	Conductivity	µS/cm	574.6	.....	.....	.....	1000.0	2250.0	IS: 3025 (Part-14)
5	Chloride	mg/L	45	250	.....	600	.....	600	IS: 3025 (Part-32)
6	Fluoride	mg/L	0.74	1.5	1.5	1.5	.....	.....	APHA 4500 D 24th Edition ,2023
7	Total Suspended Solid	mg/L	29	.....	.....	.....	.....	.....	IS: 3025 (Part-17)
8	Total Dissolved Solids	mg/L	338	500	.....	1500	.....	2100	IS: 3025 (Part-16)
9	Total Alkalinity	mg/L	190	.....	.....	.....	.....	.....	IS: 3025 (Part-23)
10	Calcium Hardness	mg/L	92	.....	.....	.....	.....	.....	IS: 3025 (Part-21)
11	Magnesium Hardness	mg/L	76	.....	.....	.....	.....	.....	IS: 3025 (Part-21)
12	Total Hardness	mg/L	168	200	.....	.....	.....	.....	IS: 3025 (Part-21)
13	Sulphates	mg/L	22.8	400	.....	400	.....	1000	IS: 3025 (Part-24)
14	Sodium	mg/L	35.2	.....	.....	.....	.....	.....	IS: 3025 (Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	2	IS: 3025 (Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS: 3025 (Part-55)
17	Nitrates	mg/L	2.7	20	.....	50	.....	.....	IS: 3025 (Part-34)
18	DO	mg/L	8.2	6	5	4	4	.....	IS: 3025 (Part-38)
19	COD	mg/L	13.3	.....	.....	.....	.....	.....	IS: 3025 (Part-58)
20	BOD	mg/L	1.6	2	3	3	.....	.....	IS: 3025 (Part-44)

*Dipti Jain*  
10/01/26  
Idma Laboratories Ltd.  
Dipti Jain  
Asst. Tech. Manager  
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*Kartar Singh*  
10/01/26  
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## TEST REPORT

LAB NO.		030126N-E-002		Page No.2/2					
21	Oil & Grease	mg/L	<0.5	.....	.....	.....	.....	.....	IS: 3025 (Part-39)
22	Fecal Coliforms	MPN/100 ml	25	.....	.....	.....	.....	.....	IS: 1622:1981
23	E. Coliforms	MPN/100 ml	Absent	.....	.....	.....	.....	.....	IS: 1622:1981
24	Mercury	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	ILL/SOP/ENV/044
25	Lead	mg/L	BLQ(LOQ-0.0005)	0.1	.....	0.1	.....	.....	IS: 3025 (Part-47)
26	Cadmium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS: 3025 (Part-41)
27	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	.....	.....	.....	.....	.....	IS: 3025 (Part-52)
28	Total Chromium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS: 3025 (Part-52)
29	Copper	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS: 3025 (Part-42)
30	Zinc	mg/L	0.0022	.....	.....	.....	.....	.....	IS: 3025 (Part-49)
31	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.05	0.2	0.2	.....	.....	IS: 3025 (Part-37)
32	Iron	mg/L	0.0026	0.3	.....	.....	.....	.....	IS: 3025 (Part-53)

Note: \* Limits as per CPCB



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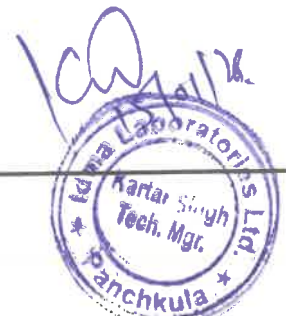
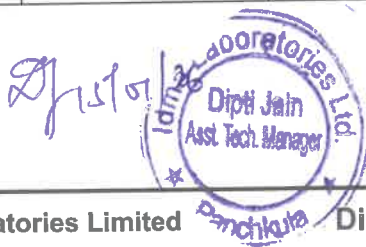
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## Idma Laboratories Limited

## TEST REPORT

LAB NO.	090126N-E-002	Page No.1/2							
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar - 851116 India.								
Work Order No.	4000351821-057-1019 Date: 25.01.2025								
Type of Sample	Surface Water								
Quantity	6 Litre								
Packing, Markings	Plastic Can 5 Litre+ 1Litre sterile glass bottle.								
Mode of collection of Sample	Sampling by Laboratories								
Sample Collected by	Idma Lab Representative								
Date of Sampling	07.01.2026								
Location of Sampling	Ganga Makeup water Pump House Downstream								
Date of Receiving of sample	09.01.2026								
Period of Analysis	09.01.2026 to 15.01.2026 to								
Date of Reporting	15.01.2026								
Sampling Protocol	IS:17614								
Testing Protocol	IS: 10500								
S. No.	Test Parameters	Units	Results	Class 'A'	Class 'B'	Class 'C'	Class 'D'	Class 'E'	Testing Method
1	pH	.....	8.37	6.5-8.5	6.5-8.5	6.0-9.0	6.0-8.5	6.0-8.5	IS: 3025 (Part-11)
2	Turbidity	NTU	45	.....	.....	.....	.....	.....	IS: 3025 (Part-10)
3	Temperature	°C	24	.....	.....	.....	.....	.....	IS: 3025 (Part-9)
4	Conductivity	µS/cm	564.4	.....	.....	.....	1000.0	2250.0	IS: 3025 (Part-14)
5	Chloride	mg/L	40	250	.....	600	.....	600	IS: 3025 (Part-32)
6	Fluoride	mg/L	0.72	1.5	1.5	1.5	.....	.....	APHA 4500 D 24th Edition, 2023
7	Total Suspended Solid	mg/L	65	.....	.....	.....	.....	.....	IS: 3025 (Part-17)
8	Total Dissolved Solids	mg/L	332	500	.....	1500	.....	2100	IS: 3025 (Part-16)
9	Total Alkalinity	mg/L	250	.....	.....	.....	.....	.....	IS: 3025 (Part-23)
10	Calcium Hardness	mg/L	120	.....	.....	.....	.....	.....	IS: 3025 (Part-21)
11	Magnesium Hardness	mg/L	80	.....	.....	.....	.....	.....	IS: 3025 (Part-21)
12	Total Hardness	mg/L	200	200	.....	.....	.....	.....	IS: 3025 (Part-21)
13	Sulphates	mg/L	28.3	400	.....	400	.....	1000	IS: 3025 (Part-24)
14	Sodium	mg/L	45.2	.....	.....	.....	.....	.....	IS: 3025 (Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	2	IS: 3025 (Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS: 3025 (Part-55)
17	Nitrates	mg/L	2.7	20	.....	50	.....	.....	IS: 3025 (Part-34)
18	DO	mg/L	8.1	6	5	4	4	.....	IS: 3025 (Part-38)
19	COD	mg/L	10	.....	.....	.....	.....	.....	IS: 3025 (Part-58)
20	BOD	mg/L	1.4	2	3	3	.....	.....	IS: 3025 (Part-44)



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**TEST REPORT**

LAB NO.		090126N-E-002		Page No.2/2					
21	Oil & Grease	mg/L	<0.5	....	....	....	....	....	IS: 3025 (Part-39)
22	Fecal Coliforms	MPN/100 ml	30	....	....	....	....	....	IS: 1622:1981
23	E. Coliforms	MPN/100 ml	Absent	....	....	....	....	....	IS: 1622:1981
24	Mercury	mg/L	BLQ(LOQ-0.0005)	....	....	....	....	....	ILL/SOP/ENV/044
25	Lead	mg/L	BLQ(LOQ-0.0005)	0.1	....	0.1	....	....	IS: 3025 (Part-47)
26	Cadmium	mg/L	BLQ(LOQ-0.0005)	....	....	....	....	....	IS: 3025 (Part-41)
27	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	....	....	....	....	....	IS: 3025 (Part-52)
28	Total Chromium	mg/L	BLQ(LOQ-0.0005)	....	....	....	....	....	IS: 3025 (Part-52)
29	Copper	mg/L	BLQ(LOQ-0.0005)	....	....	....	....	....	IS: 3025 (Part-42)
30	Zinc	mg/L	0.0017	....	....	....	....	....	IS: 3025 (Part-49)
31	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.05	0.2	0.2	....	....	IS: 3025 (Part-37)
32	Iron	mg/L	0.0023	0.3	....	....	....	....	IS: 3025 (Part-53)

Note: \* Limits as per CPCB

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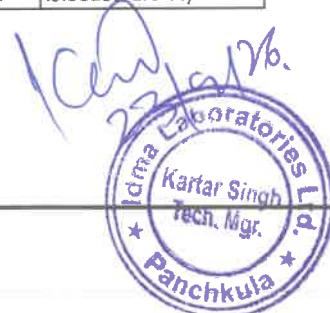


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## TEST REPORT

LAB NO.		110226N-E-002		Page No. 1/2					
Customer		1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar-851116 India.							
Work Order No.		4000351821-057-1019 Date: 25.01.2025							
Type of Sample		Surface Water							
Quantity		6 Litre							
Packing, Markings		Plastic Can 5 Litre+1 Litre sterile glass bottle.							
Mode of collection of Sample		Sampling by Laboratories							
Sample Collected by		Idma Lab Representative							
Date of Sampling		09.02.2026							
Location of Sampling		Colony Tap Water Near Sanjivani Hospital							
Date of Receiving of Sample		11.02.2026							
Period of Analysis		11.02.2026 to 23.02.2026 to							
Date of Reporting		23.02.2026							
Sampling Protocol		IS:17614							
Testing Protocol		IS: 10500							
S.No.	Test Parameters	Units	Results	Class'A'	Class'B'	Class'C'	Class'D'	Class'E'	Testing Method
1	pH	.....	8.02	6.5-8.5	6.5-8.5	6.0-9.0	6.0-8.5	6.0-8.5	IS:3025(Part-11)
2	Turbidity	NTU	6	.....	.....	.....	.....	.....	IS:3025(Part-10)
3	Temperature	°C	24.4	.....	.....	.....	.....	.....	IS:3025(Part-9)
4	Conductivity	µS/cm	588.2	.....	.....	.....	1000.0	2250.0	IS:3025(Part-14)
5	Chloride	mg/L	48	250	.....	600	.....	600	IS:3025(Part-32)
6	Fluoride	mg/L	0.71	1.5	1.5	1.5	.....	.....	APHA4500D24th Edition, 2023
7	Total Suspended Solid	mg/L	32	.....	.....	.....	.....	.....	IS:3025(Part-17)
8	Total Dissolved Solids	mg/L	346	500	.....	1500	.....	2100	IS:3025(Part-16)
9	Total Alkalinity	mg/L	192	.....	.....	.....	.....	.....	IS:3025(Part-23)
10	Calcium Hardness	mg/L	95	.....	.....	.....	.....	.....	IS:3025(Part-21)
11	Magnesium Hardness	mg/L	79	.....	.....	.....	.....	.....	IS:3025(Part-21)
12	Total Hardness	mg/L	174	200	.....	.....	.....	.....	IS:3025(Part-21)
13	Sulphates	mg/L	23.3	400	.....	400	.....	1000	IS:3025(Part-24)
14	Sodium	mg/L	34.9	.....	.....	.....	.....	.....	IS:3025(Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	2	IS:3025(Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-55)
17	Nitrates	mg/L	2.9	20	.....	50	.....	.....	IS:3025(Part-34)
18	DO	mg/L	8.1	6	5	4	4	.....	IS:3025(Part-38)
19	COD	mg/L	12	.....	.....	.....	.....	.....	IS:3025(Part-58)
20	BOD	mg/L	1.8	2	3	3	.....	.....	IS:3025(Part-44)

23/02/26

**Idma Laboratories Limited**

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Tel No. 0172 - 5064827, - 5064830

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## TEST REPORT

LAB NO.		110226N-E-002		Page No. 2/2					
21	Oil & Grease	mg/L	<0.5	.....	.....	.....	.....	.....	IS:3025(Part-39)
22	Fecal Coliforms	MPN/100 ml	20	.....	.....	.....	.....	.....	IS:1622:1981
23	E. Coliforms	MPN/100 ml	Absent	.....	.....	.....	.....	.....	IS:1622:1981
24	Mercury	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	ILL/SOP/ENV/044
25	Lead	mg/L	BLQ(LOQ-0.0005)	0.1	.....	0.1	.....	.....	IS:3025(Part-47)
26	Cadmium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-41)
27	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	.....	.....	.....	.....	.....	IS:3025(Part-52)
28	Total Chromium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-52)
29	Copper	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-42)
30	Zinc	mg/L	0.0023	.....	.....	.....	.....	.....	IS:3025(Part-49)
31	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.05	0.2	0.2	.....	.....	IS:3025(Part-37)
32	Iron	mg/L	0.0029	0.3	.....	.....	.....	.....	IS:3025(Part-53)

Note:\*Limits as per CPCB

Reviewed by



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# Annexure-VII Idma Laboratories Limited

## TEST REPORT

LAB NO.	130326N-E-001	PageNo. 1/2							
Customer	1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.								
Work Order No.	4000351821-057-1019 Date: 25.01.2025								
Type of Sample	Surface Water								
Quantity	6 Litre								
Packing, Markings	Plastic Can 5 Litre+1 Litre sterile glass bottle.								
Mode of collection of Sample	Sampling by Laboratories								
Sample Collected by	Idma Lab Representative								
Date of Sampling	11.03.2026								
Location of Sampling	Colony Tap water Near Polish Hostel								
Date of Receiving of sample	13.03.2026								
Period of Analysis	13.03.2026 to 20.03.2026								
Date of Reporting	20.03.2026								
Sampling Protocol	IS:17614								
Testing Protocol	IS: 10500								
S.No.	Test Parameters	Units	Results	Class'A'	Class'B'	Class'C'	Class'D'	Class'E'	Testing Method
1	pH	.....	8.1	6.5-8.5	6.5-8.5	6.0-9.0	6.0-8.5	6.0-8.5	IS:3025(Part-11)
2	Turbidity	NTU	5	.....	.....	.....	.....	.....	IS:3025(Part-10)
3	Temperature	°C	24.9	.....	.....	.....	.....	.....	IS:3025(Part-9)
4	Conductivity	µS/cm	608.6	.....	.....	.....	1000.0	2250.0	IS:3025(Part-14)
5	Chloride	mg/L	52	250	.....	600	.....	600	IS:3025(Part-32)
6	Fluoride	mg/L	0.78	1.5	1.5	1.5	.....	.....	APHA4500D24th Edition,2023
7	Total Suspended Solid	mg/L	35	.....	.....	.....	.....	.....	IS:3025(Part-17)
8	Total Dissolved Solids	mg/L	358	500	.....	1500	.....	2100	IS:3025(Part-16)
9	Total Alkalinity	mg/L	196	.....	.....	.....	.....	.....	IS:3025(Part-23)
10	Calcium Hardness	mg/L	98	.....	.....	.....	.....	.....	IS:3025(Part-21)
11	Magnesium Hardness	mg/L	80	.....	.....	.....	.....	.....	IS:3025(Part-21)
12	Total Hardness	mg/L	178	200	.....	.....	.....	.....	IS:3025(Part-21)
13	Sulphates	mg/L	23.8	400	.....	400	.....	1000	IS:3025(Part-24)
14	Sodium	mg/L	35.4	.....	.....	.....	.....	.....	IS:3025(Part-45)
15	Boron	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	2	IS:3025(Part-57)
16	Aluminium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-55)
17	Nitrates	mg/L	3.3	20	.....	50	.....	.....	IS:3025(Part-34)
18	DO	mg/L	8	6	5	4	4	.....	IS:3025(Part-38)
19	COD	mg/L	10	.....	.....	.....	.....	.....	IS:3025(Part-58)
20	BOD	mg/L	1.5	2	3	3	.....	.....	IS:3025(Part-44)

*Renu*  
Renu  
Sr. Analyst  
Authorized Signatory

*100*  
Kartik Singh  
Tech Mgr.  
Panchkula

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# Annexure-VII Idma Laboratories Limited

## TEST REPORT

LAB NO.		130326N-E-001		PageNo. 2/2					
21	Oil & Grease	mg/L	<0.5	.....	.....	.....	.....	.....	IS:3025(Part-39)
22	Fecal Coliforms	MPN/100 ml	22	.....	.....	.....	.....	.....	IS:1622:1981
23	E. Coliforms	MPN/100 ml	Absent	.....	.....	.....	.....	.....	IS:1622:1981
24	Mercury	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	ILL/SOP/ENV/044
25	Lead	mg/L	BLQ(LOQ-0.0005)	0.1	.....	0.1	.....	.....	IS:3025(Part-47)
26	Cadmium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-41)
27	Hexavalent Chromium	mg/L	BLQ(LOQ-0.05)	.....	.....	.....	.....	.....	IS:3025(Part-52)
28	Total Chromium	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-52)
29	Copper	mg/L	BLQ(LOQ-0.0005)	.....	.....	.....	.....	.....	IS:3025(Part-42)
30	Zinc	mg/L	0.0026	.....	.....	.....	.....	.....	IS:3025(Part-49)
31	Arsenic	mg/L	BLQ(LOQ-0.0005)	0.05	0.2	0.2	.....	.....	IS:3025(Part-37)
32	Iron	mg/L	0.0034	0.3	.....	.....	.....	.....	IS:3025(Part-53)

Note:\*Limits as per CPCB



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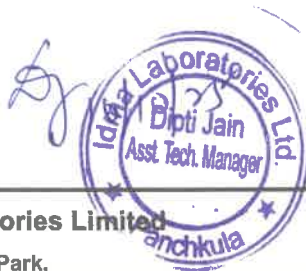
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## TEST REPORT

LAB NO.	071025N-E-003	PageNo.1/2
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai Begusarai Bihar- 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
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 to 04.10.2025	
Location of Sampling	CW Pump House	
Date of Receiving of sample	07.10.2025	
Period of Analysis	07.10.2025 to 10.10.2025	
Date of Reporting	10.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	46.0	44.3	44.1	44.8	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	23.6	24.7	23.5	23.9	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	12.0	9.1	9.8	10.4	Max.80	IS:5182(PART-2)
			10.6	11.4	9.7			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	18.9	17.7	16.8	18.3	Max.80	IS:5182(PART-6)
			18.0	18.4	20.0			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.1				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	16.6	16.9	16.4	16.63	Max. 180	IS:5182(PART-9)



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## TEST REPORT

LAB NO.		071025N-E-003					PageNo.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.16			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.31	0.33	0.32	0.32	Max.4	IS:5182(PART-10)

\*End of Report\*

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## TEST REPORT

LAB NO.	071025N-E-004	PageNo.1/2
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai Begusarai Bihar- 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
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 to 04.10.2025	
Location of Sampling	Netaji Bhawan	
Date of Receiving of sample	07.10.2025	
Period of Analysis	07.10.2025 to 10.10.2025	
Date of Reporting	10.10.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	37.9	41.4	41.0	40.1	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	26.0	24.5	25.9	25.5	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	13.0	11.8	12.0	12.0	Max.80	IS:5182(PART-2)
			12.7	11.6	11.0			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	18.7	19.6	20.0	18.7	Max.80	IS:5182(PART-6)
			19.2	17.0	17.8			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.7				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	17.3	17.8	16.9	17.33	Max. 180	IS:5182(PART-9)



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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		071025N-E-004				PageNo.2/2		
S.No.	Test Parameters	Units	Results		Specification	Test Method		
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.15		Max.5	IS:5182(PART-11)		
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5		Max. 1.0	IS:5182(PART-12)		
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 <sup>3</sup>	0.35	0.34	0.36	0.35	Max.4	IS:5182(PART-10)

\*End of Report\*



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## TEST REPORT

LAB NO.	151025N-E-001	PageNo.1/2
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai Begusarai Bihar-851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
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	06.10.2025 to 07.10.2025	
Location of Sampling	Near Baryahi Village	
Date of Receiving of sample	15.10.2025	
Period of Analysis	15.10.2025 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			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	46.9	45.4	47.0	46.4	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	24.1	24.3	23.9	24.1	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	12.9	12.4	11.0	12.0	Max.80	IS:5182(PART-2)
			12.0	11.8	11.9			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	24.2	23.0	23.6	24.0	Max.80	IS:5182(PART-6)
			25.0	24.9	23.1			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.9				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.1	17.5	17.7	17.77	Max. 180	IS:5182(PART-9)



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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		151025N-E-001					PageNo.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.15			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.36	0.37	0.36	0.36	Max.4	IS:5182(PART-10)

\*End of Report\*



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## TEST REPORT

LAB NO.	151025N-E-002	PageNo.1/2
Customer	1072- Barauni Thermal Power Plant Project NH-31, Barauni Begusarai Begusarai Bihar- 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
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	06.10.2025 to 07.10.2025	
Location of Sampling	Village Chakballi	
Date of Receiving of sample	15.10.2025	
Period of Analysis	15.10.2025 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			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	44.6	43.9	44.7	44.4	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	24.7	25.0	25.8	25.2	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	11.8	12.0	11.0	12.1	Max.80	IS:5182(PART-2)
			12.8	11.6	13.4			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	16.9	17.8	17.6	18.7	Max.80	IS:5182(PART-6)
			20.4	20.0	19.5			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.3				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	17.5	16.9	17	17.13	Max. 180	IS:5182(PART-9)



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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		151025N-E-002				PageNo.2/2		
S.No.	Test Parameters	Units	Results		Specification	Test Method		
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.14		Max.5	IS:5182(PART-11)		
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5		Max. 1.0	IS:5182(PART-12)		
S.No	Test Parameters	Units	Results			Specification	Test Methods	
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING (Ambient Air) 8 hourly								
12	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.29	0.3	0.33	0.31	Max.4	IS:5182(PART-10)

\*End of Report\*



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## TEST REPORT

LAB NO.		041125N-E-003					PageNo.1/2	
Customer		1072-Barauni Thermal Power Plant Project NH-31, Barauni Begusarai, Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		01.11.2025						
Location of Sampling		CW Pump House						
Date of Receiving of sample		04.11.2025						
Period of Analysis		04.11.2025 to 08.11.2025						
Date of Reporting		08.11.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	46.3	44.1	44.2	44.9	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	23.8	24.9	23.2	24.0	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	12.1	8.8	9.7	10.3	Max.80	IS:5182(PART-2)
			10.3	11.5	9.4			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	18.6	17.9	16.5	18.4	Max.80	IS:5182(PART-6)
			18.3	18.7	20.2			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.4				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	16.8	17.2	16.5	16.83	Max. 180	IS:5182(PART-9)

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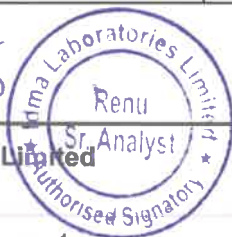
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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		041125N-E-003				PageNo.2/2		
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.19			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.29	0.34	0.35	0.33	Max.4	IS:5182(PART-10)

\*End of Report\*

*Renu 8/11/25*  
Reviewed by  
  
Renu  
Sr. Analyst  
Authorised Signatory

*Kartar Singh 8/11/25*  
Authorised Signatory  
  
Kartar Singh  
Tech. Mgr.  
Panchkula

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## TEST REPORT

LAB NO.		041125N-E-004					PageNo.1/2	
Customer		1072-Barauni Thermal Power Plant Project NH-31, Barauni Begusarai, Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		01.11.2025						
Location of Sampling		Netaji Bhawan						
Date of Receiving of sample		04.11.2025						
Period of Analysis		04.11.2025 to 08.11.2025						
Date of Reporting		08.11.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	37.6	41.6	41.5	40.2	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	26.3	24.8	26.1	25.7	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	13.3	12.2	12.5	12.3	Max.80	IS:5182(PART-2)
			12.5	11.9	11.2			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	18.8	19.7	20.1	18.9	Max.80	IS:5182(PART-6)
			19.5	17.7	17.4			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.4				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	17.5	17.7	17.1	17.43	Max. 180	IS:5182(PART-9)

Renu  
8/11/25

Idma Laboratories Limited

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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		041125N-E-004				PageNo.2/2		
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.12			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.32	0.31	0.35	0.33	Max.4	IS:5182(PART-10)

\*End of Report\*

*Renu Singh*  
Reviewed by  


*Kartar Singh*  
Authorised Signatory  


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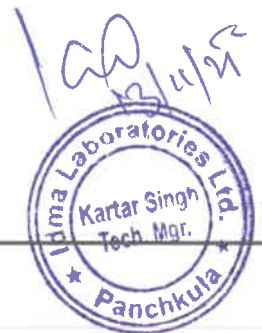
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LAB NO.	081125N-E-004	PageNo.1/2						
Customer	1072-Barauni Thermal Power Plant Project NH-31, Barauni Begusarai, Begusarai Bihar -851116 India.							
Work Order No.	4000351821-057-1019 Date: 25.01.2025							
Type of Sample	Ambient Air							
Quantity	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	05.11.2025							
Location of Sampling	Near Baryahi Village							
Date of Receiving of sample	08.11.2025							
Period of Analysis	08.11.2025 to 13.11.2025							
Date of Reporting	13.11.2025							
Sampling Protocol	NAAQMS/36/2012-13							
Testing Protocol	NAAQS and CPCB							
S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	46.8	45.1	47.3	46.4	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	24.2	24.6	24.1	24.3	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	13.5	12.6	11.4	12.4	Max.80	IS:5182(PART-2)
			12.3	12.5	11.8			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	24.6	23.3	23.9	24.2	Max.80	IS:5182(PART-6)
			25.7	24.5	23.1			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8.1				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.3	17.9	17.8	18.00	Max. 180	IS:5182(PART-9)

Renu  
13/11/25

## 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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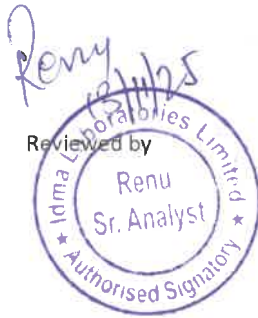


# Idma Laboratories Limited

## TEST REPORT

LAB NO.		081125N-E-004				PageNo.2/2		
S.No.	Test Parameters	Units	Results		Specification	Test Method		
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.12		Max.5	IS:5182(PART-11)		
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5		Max. 1.0	IS:5182(PART-12)		
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 <sup>3</sup>	0.32	0.39	0.41	0.37	Max.4	IS:5182(PART-10)

\*End of Report\*



Reviewed by

Renu  
Sr. Analyst



Authorised Signatory

Kartar Singh  
Tech. Mgr.

### Idma Laboratories Limited

Idma Corporate Park,

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## TEST REPORT

LAB NO.		081125N-E-003					PageNo.1/2	
Customer		1072-Barauni Thermal Power Plant Project NH-31, Barauni Begusarai, Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		05.11.2025						
Location of Sampling		Village Chakballi						
Date of Receiving of sample		08.11.2025						
Period of Analysis		08.11.2025 to 13.11.2025						
Date of Reporting		13.11.2025						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	45.0	44.1	45.1	44.7	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	24.8	25.6	25.9	25.4	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	12.3	12.5	11.4	12.4	Max.80	IS:5182(PART-2)
			13.0	11.9	13.2			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	17.8	17.5	17.9	19.1	Max.80	IS:5182(PART-6)
			21.7	20.1	19.7			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.5				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	17.3	17.1	17.2	17.20	Max. 180	IS:5182(PART-9)

Renu  
13/11/25



## Idma Laboratories Limited

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## TEST REPORT

LAB NO.		081125N-E-003					PageNo.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C6H6	µg/m3	0.16			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m3	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.31	0.33	0.31	0.32	Max.4	IS:5182(PART-10)

\*End of Report\*



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## TEST REPORT

LAB NO.	081225N-E-004	Page No.1/2
Customer	1072-Barauni Thermal Power Plant Project, NH-31, Barauni, Begusarai, Begusarai Bihar - 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
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	02.12.2025	
Location of Sampling	CW Pump House	
Date of Receiving of sample	08.12.2025	
Period of Analysis	08.12.2025 to 12.12.2025	
Date of Reporting	12.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	70.9	71.6	70.5	71.0	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	42.3	41.7	42.8	42.3	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	13.8	12.6	12.8	12.6	Max.80	IS:5182(PART-2)
			12.7	12.3	11.4			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	19.2	19.9	20.3	19.2	Max.80	IS:5182(PART-6)
			19.8	18.2	17.8			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.5				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	17.8	18	17.4	17.73	Max. 180	IS:5182(PART-9)

Reviewed by



Authorised Signatory



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## TEST REPORT

LAB NO.		081225N-E-004					Page No.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.15			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.35	0.34	0.37	0.35	Max.4	IS:5182(PART-10)

\*End of Report\*



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## TEST REPORT

LAB NO.	081225N-E-007	Page No.1/2
Customer	1072-Barauni Thermal Power Plant Project, NH-31, Barauni, Begusarai, Begusarai Bihar - 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
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	04.12.2025	
Location of Sampling	Near Baryahi Village	
Date of Receiving of sample	08.12.2025	
Period of Analysis	08.12.2025 to 12.12.2025	
Date of Reporting	12.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	47.0	44.9	46.8	46.2	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	24.6	25.1	23.7	24.5	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	13.9	12.8	11.9	12.7	Max.80	IS:5182(PART-2)
			12.5	12.9	12.0			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	25.1	23.6	24.2	24.4	Max.80	IS:5182(PART-6)
			25.5	24.7	23.4			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18	18.4	17.9	18.10	Max. 180	IS:5182(PART-9)

Reviewed by



Authorised Signatory



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**TEST REPORT**

LAB NO.		081225N-E-007					Page No.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.16			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.31	0.34	0.36	0.34	Max.4	IS:5182(PART-10)

\*End of Report\*



*Kartar Singh*  
12/11/15

Authorised Signatory

**Idma Laboratories Limited**

Idma Corporate Park,

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## TEST REPORT

LAB NO.	151225N-E-003	Page No.1/2
Customer	1072-Barauni Thermal Power Plant Project, NH-31, Barauni, Begusarai, Begusarai Bihar - 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
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	09.12.2025	
Location of Sampling	Netaji Bhawan	
Date of Receiving of sample	15.12.2025	
Period of Analysis	15.12.2025 to 19.12.2025	
Date of Reporting	19.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	40.6	44.4	43.2	42.7	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	25.3	24.7	23.6	24.5	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	12.4	11.4	11.6	11.7	Max.80	IS:5182(PART-2)
			11.5	12.3	11.2			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	17.4	18.2	17.6	17.3	Max.80	IS:5182(PART-6)
			17.1	16.4	17.3			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.3				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.12				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	17.1	17.8	17.7	17.53	Max. 180	IS:5182(PART-9)

Reviewed by

19/12/25



Authorised Signatory



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## TEST REPORT

LAB NO.		151225N-E-003					Page No.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.21			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.35	0.37	0.35	0.36	Max.4	IS:5182(PART-10)

\*End of Report\*

Reviewed by  
19/12/20  
  
Dipti Jain  
Asst. Tech. Manager  


Authorized Signatory  
19/12/20  
  
Kartar Singh  
Tech. Mgr.  


### Idma Laboratories Limited

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## TEST REPORT

LAB NO.	151225N-E-007	Page No.1/2
Customer	1072-Barauni Thermal Power Plant Project, NH-31, Barauni, Begusarai, Begusarai Bihar - 851116 India.	
Work Order No.	4000351821-057-1019 Date: 25.01.2025	
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	11.12.2025	
Location of Sampling	Village Chakballi	
Date of Receiving of sample	15.12.2025	
Period of Analysis	15.12.2025 to 19.12.2025	
Date of Reporting	19.12.2025	
Sampling Protocol	NAAQMS/36/2012-13	
Testing Protocol	NAAQS and CPCB	

S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	44.9	11.5	45.2	33.9	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	24.5	25.4	25.6	25.2	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	13.0	12.6	12.2	13.1	Max.80	IS:5182(PART-2)
			13.8	12.7	14.0			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	17.6	18.0	17.9	19.2	Max.80	IS:5182(PART-6)
			21.6	20.0	19.8			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.8				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	17.7	18.3	17.9	17.97	Max. 180	IS:5182(PART-9)

Reviewed by



Authorised Signatory



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# Annexure-VIII

## Idma Laboratories Limited

### TEST REPORT

LAB NO.		151225N-E-007					Page No.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C6H6	$\mu\text{g}/\text{m}^3$	0.14			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	$\text{ng}/\text{m}^3$	<0.5			Max. 1.0	IS:5182(PART-12)	
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)	$\text{mg}/\text{m}^3$	0.35	0.38	0.36	0.36	Max.4	IS:5182(PART-10)

\*End of Report\*



#### Idma Laboratories Limited

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## TEST REPORT

LAB NO.		060126N-E-003					Page No. 1/2	
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.							
Work Order No.	4000351821-057-1019 Date: 25.01.2025							
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	02.01.2026							
Location of Sampling	CW Pump House							
Date of Receiving of sample	06.01.2026							
Period of Analysis	06.01.2026 to 10.01.2026							
Date of Reporting	10.01.2026							
Sampling Protocol	NAAQMS/36/2012-13							
Testing Protocol	NAAQS and CPCB							
S. No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	63.8	67.5	62.8	64.7	Max. 100	IS: 5182 (PART-23)
2	Particulate Matter (PM 2.5)	$\mu\text{g}/\text{m}^3$	34.5	33.7	35.6	34.6	Max. 60	IDL/SP/03, ISSUE NO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	14.0	12.9	13.4	13.1	Max. 80	IS: 5182 (PART-2)
			13.2	12.8	12.5			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	19.8	20.2	20.6	19.7	Max. 80	IS: 5182 (PART-6)
			20.5	18.8	18.1			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.9			Max. 400	IS: 5182 (PART-25)	
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0			Max. 6	EPA/625/R-96/010A	
7	Lead	$\mu\text{g}/\text{m}^3$	0.13			Max. 1.0	EPA/625/R-96/010A	
8	Nickel	$\text{ng}/\text{m}^3$	<8.0			Max. 20	EPA/625/R-96/010A	
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.1	18.6	18.3	18.33	Max. 180	IS: 5182 (PART-9)

07/01/26



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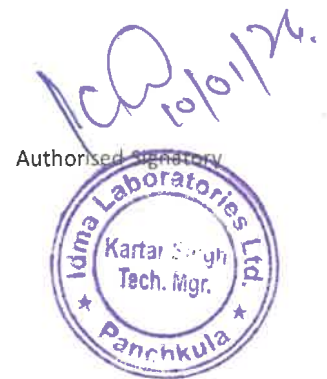


# Idma Laboratories Limited

## TEST REPORT

LAB NO.		060126N-E-003					Page No. 2/2	
S. No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C6H6	µg/m <sup>3</sup>	0.38			Max. 5	IS: 5182 (PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS: 5182 (PART-12)	
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 <sup>3</sup>	0.36	0.37	0.36	0.36	Max. 4	IS: 5182 (PART-10)

\*End of Report\*



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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		060126N-E-005					Page No. 1/2	
Customer		1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		03.01.2026						
Location of Sampling		Netaji Bhawan						
Date of Receiving of sample		06.01.2026						
Period of Analysis		06.01.2026 to 10.01.2026						
Date of Reporting		10.01.2026						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	59.8	61.7	60.5	60.7	Max. 100	IS: 5182 (PART-23)
2	Particulate Matter (PM 2.5)	$\mu\text{g}/\text{m}^3$	30.7	31.9	30.6	31.1	Max. 60	IDL/SP/03, ISSUE NO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	13.7	11.5	11.9	11.6	Max. 80	IS: 5182 (PART-2)
			10.8	10.2	11.4			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	18.2	19.4	18.3	18.2	Max. 80	IS: 5182 (PART-6)
			17.9	17.4	17.8			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	7.8				Max. 400	IS: 5182 (PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max. 6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.16				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max. 20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	17.6	18.9	18.1	18.20	Max. 180	IS: 5182 (PART-9)



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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		060126N-E-005					Page No. 2/2	
S. No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.42			Max. 5	IS: 5182 (PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS: 5182 (PART-12)	
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 <sup>3</sup>	0.36	0.38	0.35	0.36	Max. 4	IS: 5182 (PART-10)

\*End of Report\*



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## Idma Laboratories Limited

## TEST REPORT

LAB NO.	120126N-E-003						Page No. 1/2	
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.							
Work Order No.	4000351821-057-1019 Date: 25.01.2025							
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	05.01.2026							
Location of Sampling	Near Baryahi Village							
Date of Receiving of sample	12.01.2026							
Period of Analysis	12.01.2026 to 16.01.2026							
Date of Reporting	16.01.2026							
Sampling Protocol	NAAQMS/36/2012-13							
Testing Protocol	NAAQS and CPCB							
S. No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	55.9	57.6	56.8	56.8	Max. 100	IS: 5182 (PART-23)
2	Particulate Matter (PM 2.5)	$\mu\text{g}/\text{m}^3$	27.6	28.2	27.8	27.9	Max. 60	IDL/SP/03, ISSUE NO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	14.3	13.3	12.4	13.1	Max. 80	IS: 5182 (PART-2)
			12.8	13.4	12.2			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	24.6	22.8	23.9	23.6	Max. 80	IS: 5182 (PART-6)
			24.2	23.6	22.7			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8.3				Max. 400	IS: 5182 (PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max. 6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max. 20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.2	18.7	18.5	18.47	Max. 180	IS: 5182 (PART-9)

26/01/26



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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		120126N-E-003					Page No. 2/2	
S. No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C6H6	µg/m <sup>3</sup>	0.28			Max. 5	IS: 5182 (PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS: 5182 (PART-12)	
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 <sup>3</sup>	0.33	0.32	0.34	0.33	Max. 4	IS: 5182 (PART-10)

\*End of Report\*



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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		120126N-E-004					Page No. 1/2	
Customer		1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		05.01.2026						
Location of Sampling		Village Chakballi						
Date of Receiving of sample		12.01.2026						
Period of Analysis		12.01.2026 to 16.01.2026						
Date of Reporting		16.01.2026						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S. No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM 10)	$\mu\text{g}/\text{m}^3$	59.2	57.6	58.1	58.3	Max. 100	IS: 5182 (PART-23)
2	Particulate Matter (PM 2.5)	$\mu\text{g}/\text{m}^3$	29.2	30.4	29.1	29.6	Max. 60	IDL/SP/03, ISSUE NO-1
3	Sulphur Dioxide ( $\text{SO}_2$ )	$\mu\text{g}/\text{m}^3$	12.8	13.3	12.0	13.0	Max. 80	IS: 5182 (PART-2)
			13.8	12.2	13.9			
4	Nitrogen Dioxide ( $\text{NO}_2$ )	$\mu\text{g}/\text{m}^3$	18.4	18.8	18.2	19.7	Max. 80	IS: 5182 (PART-6)
			21.8	20.6	20.3			
5	Ammonia ( $\text{NH}_3$ )	$\mu\text{g}/\text{m}^3$	7.9				Max. 400	IS: 5182 (PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max. 6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.11				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max. 20	EPA/625/R-96/010A
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								
9	Ozone ( $\text{O}_3$ )	$\mu\text{g}/\text{m}^3$	18	18.9	18.8	18.57	Max. 180	IS: 5182 (PART-9)



### Idma Laboratories Limited

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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		120126N-E-004					Page No. 2/2	
S. No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C6H6	µg/m <sup>3</sup>	0.25			Max. 5	IS: 5182 (PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS: 5182 (PART-12)	
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 <sup>3</sup>	0.33	0.35	0.36	0.35	Max. 4	IS: 5182 (PART-10)

\*End of Report\*

Reviewed by  
26/07/26Authorised Signatory  
26/07/26**Idma Laboratories Limited**

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## TEST REPORT

LAB NO.	090226N-E-003						Page No.1/2	
Customer	1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.							
Work Order No.	4000351821-057-1019 Date: 25.01.2025							
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	CW Pump House							
Date of Receiving of Sample	09.02.2026							
Period of Analysis	09.02.2026 to 14.02.2026							
Date of Reporting	14.02.2026							
Sampling Protocol	NAAQMS/36/2012-13							
Testing Protocol	NAAQS and CPCB							
S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter(PM10)	$\mu\text{g}/\text{m}^3$	64.7	68.1	66.3	66.4	Max. 100	IS:5182(PART-23)
2	Particulate Matter(PM2.5)	$\mu\text{g}/\text{m}^3$	35.1	34.7	35.4	35.1	Max. 60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide(SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	14.4	13.6	13.9	13.6	Max. 80	IS:5182(PART-2)
			13.5	13.1	12.9			
4	Nitrogen Dioxide(NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	20.1	19.9	20.7	19.8	Max. 80	IS:5182(PART-6)
			19.9	19.8	18.4			
5	Ammonia(NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8.1				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max. 6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.14				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max. 20	EPA/625/R-96/010A
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.4	19.1	18.8	18.77	Max. 180	IS:5182(PART-9)



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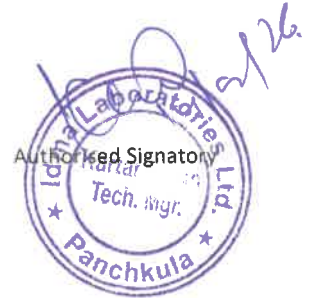


# Idma Laboratories Limited

## TEST REPORT

LAB NO.		090226N-E-003					Page No.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C6H6	µg/m <sup>3</sup>	0.46			Max. 5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.38	0.39	0.37	0.38	Max. 4	IS:5182(PART-10)

\*End of Report\*

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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		090226N-E-005					Page No.1/2	
Customer		1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		04.02.2026						
Location of Sampling		Netaji Bhawan						
Date of Receiving of Sample		09.02.2026						
Period of Analysis		09.02.2026 to 14.02.2026						
Date of Reporting		14.02.2026						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter(PM10)	$\mu\text{g}/\text{m}^3$	61.2	62.5	61.1	61.6	Max. 100	IS:5182(PART-23)
2	Particulate Matter(PM2.5)	$\mu\text{g}/\text{m}^3$	31.4	32.3	31.2	31.6	Max. 60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide(SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	13.9	13.2	12.8	12.6	Max. 80	IS:5182(PART-2)
			11.6	12.4	11.9			
4	Nitrogen Dioxide(NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	18.6	19.8	19.2	18.9	Max. 80	IS:5182(PART-6)
			18.4	18.6	19.0			
5	Ammonia(NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max. 6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.17				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max. 20	EPA/625/R-96/010A
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	17.9	19.4	18.8	18.70	Max. 180	IS:5182(PART-9)

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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		090226N-E-005					Page No.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.51			Max. 5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.37	0.39	0.38	0.38	Max. 4	IS:5182(PART-10)

\*End of Report\*



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## Idma Laboratories Limited

## TEST REPORT

LAB NO.		090226N-E-007					Page No.1/2	
Customer		1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		05.02.2026						
Location of Sampling		Near Baryahi Village						
Date of Receiving of Sample		09.02.2026						
Period of Analysis		09.02.2026 to 14.02.2026						
Date of Reporting		14.02.2026						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter(PM10)	$\mu\text{g}/\text{m}^3$	56.3	58.0	57.1	57.1	Max. 100	IS:5182(PART-23)
2	Particulate Matter(PM2.5)	$\mu\text{g}/\text{m}^3$	28.2	29.0	28.6	28.6	Max. 60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide(SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	14.6	13.9	13.5	13.7	Max. 80	IS:5182(PART-2)
			13.5	13.7	12.9			
4	Nitrogen Dioxide(NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	23.9	23.1	24.0	23.9	Max. 80	IS:5182(PART-6)
			24.6	24.5	23.4			
5	Ammonia(NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8.5				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max. 6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	<0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max. 20	EPA/625/R-96/010A
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
CHEMICAL TESTING(Ambient Air)8hourly								
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.3	19.5	18.8	18.87	Max. 180	IS:5182(PART-9)



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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		090226N-E-007					Page No.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C6H6	µg/m3	0.37			Max. 5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m3	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.34	0.36	0.35	0.35	Max. 4	IS:5182(PART-10)

\*End of Report\*

27/11/2016  
Reviewed by

Authorized Signatory

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## TEST REPORT

LAB NO.		090226N-E-008					Page No.1/2	
Customer		1072 Barauni Thermal Power Plant Project NH31, Barauni Begusarai Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		05.02.2026						
Location of Sampling		Village Chakballi						
Date of Receiving of Sample		09.02.2026						
Period of Analysis		09.02.2026 to 14.02.2026						
Date of Reporting		14.02.2026						
Sampling Protocol		NAAQMS/36/2012-13						
Testing Protocol		NAAQS and CPCB						
S.No.	Test Parameters	Units	Results			Average	Specification	Test Method
CHEMICAL TESTING(Ambient Air)24hourly								
1	Particulate Matter(PM10)	$\mu\text{g}/\text{m}^3$	61.1	62.2	60.4	61.2	Max. 100	IS:5182(PART-23)
2	Particulate Matter(PM2.5)	$\mu\text{g}/\text{m}^3$	30.0	31.3	30.5	30.6	Max. 60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide(SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	13.2	13.8	12.9	13.5	Max. 80	IS:5182(PART-2)
			14.0	12.9	14.1			
4	Nitrogen Dioxide(NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	18.6	19.0	18.5	20.0	Max. 80	IS:5182(PART-6)
			22.0	21.6	20.5			
5	Ammonia(NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8.2				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max. 6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.13				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max. 20	EPA/625/R-96/010A
S.No	Test Parameters	Units	Results			Average	Specification	Test Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			
CHEMICAL TESTING(Ambient Air)8hourly								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.1	19.4	18.7	18.73	Max. 180	IS:5182(PART-9)



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# Idma Laboratories Limited

## TEST REPORT

LAB NO.		090226N-E-008					Page No.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.35			Max. 5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.36	0.37	0.35	0.36	Max. 4	IS:5182(PART-10)

\*End of Report\*



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# Annexure-VIII Idma Laboratories Limited

## TEST REPORT

LAB NO.		090326N-E-003					PageNo.1/2	
Customer		1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		CW Pump House						
Date of Receiving of sample		09.03.2026						
Period of Analysis		09.03.2026 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			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	67.8	70.1	69.8	69.2	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	36.0	35.4	35.9	35.8	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	14.8	14.5	14.2	14.3	Max.80	IS:5182(PART-2)
			14.3	14.0	13.9			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	20.1	20.4	20.2	20.1	Max.80	IS:5182(PART-6)
			19.9	20.0	19.7			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8.6				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.15				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.8	19.5	19.3	19.20	Max. 180	IS:5182(PART-9)



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# Annexure-VIII Idma Laboratories Limited

## TEST REPORT

LAB NO.		090326N-E-003					PageNo.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.58			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.39	0.41	0.38	0.39	Max.4	IS:5182(PART-10)

\*End of Report\*



Reviewed by



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# Annexure-VIII Idma Laboratories Limited

## TEST REPORT

LAB NO.		090326N-E-005					PageNo.1/2	
Customer		1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		05.03.2026						
Location of Sampling		Netaji Bhawan						
Date of Receiving of sample		09.03.2026						
Period of Analysis		09.03.2026 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			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	64.8	66.1	63.7	64.9	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.9	33.1	32.7	32.9	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	14.3	13.6	13.8	13.5	Max.80	IS:5182(PART-2)
			13.4	13.2	12.7			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	18.9	19.6	19.2	19.1	Max.80	IS:5182(PART-6)
			19.1	18.8	19.0			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8.5				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.15				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.4	19.6	19.1	19.03	Max. 180	IS:5182(PART-9)



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# Annexure-VIII Idma Laboratories Limited

## TEST REPORT

LAB NO.		090326N-E-005					PageNo.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.62			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.38	0.4	0.39	0.39	Max.4	IS:5182(PART-10)

\*End of Report\*



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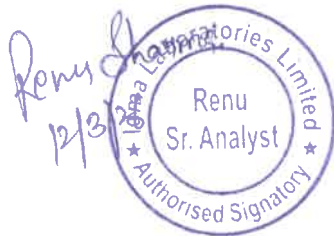
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# Annexure-VIII Idma Laboratories Limited

## TEST REPORT

LAB NO.		090326N-E-007					PageNo.1/2	
Customer		1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		06.03.2026						
Location of Sampling		Near Baryahi Village						
Date of Receiving of sample		09.03.2026						
Period of Analysis		09.03.2026 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			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	58.3	60.1	59.5	59.3	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	30.4	29.6	30.1	30.0	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	14.8	14.5	13.9	14.3	Max.80	IS:5182(PART-2)
			14.6	13.8	14.2			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	23.5	22.9	23.9	23.7	Max.80	IS:5182(PART-6)
			24.1	24.3	23.7			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8.8				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.1				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.5	19.2	18.9	18.87	Max. 180	IS:5182(PART-9)



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# Annexure-VIII Idma Laboratories Limited

## TEST REPORT

LAB NO.		090326N-E-007					PageNo.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.46			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.37	0.36	0.38	0.37	Max.4	IS:5182(PART-10)

\*End of Report\*



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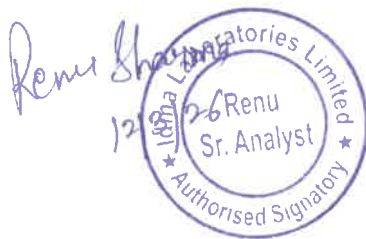
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# Annexure-VIII Idma Laboratories Limited

## TEST REPORT

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Customer		1072-Barauni Thermal Power Plant Project-NH31, Barauni Begusarai, Begusarai Bihar -851116 India.						
Work Order No.		4000351821-057-1019 Date: 25.01.2025						
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		06.03.2026						
Location of Sampling		Village Chakballi						
Date of Receiving of sample		09.03.2026						
Period of Analysis		09.03.2026 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			Average	Specification	Test Method
CHEMICAL TESTING (Ambient Air) 24 hourly								
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	63.5	61.4	63.2	62.7	Max. 100	IS:5182(PART-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.5	32.0	31.8	31.8	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	13.6	14.0	13.7	13.8	Max.80	IS:5182(PART-2)
			14.2	13.6	13.9			
4	Nitrogen Dioxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	18.9	19.4	18.7	19.9	Max.80	IS:5182(PART-6)
			21.4	20.8	20.1			
5	Ammonia (NH <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	8.4				Max. 400	IS:5182(PART-25)
6	Arsenic	$\text{ng}/\text{m}^3$	<1.0				Max.6	EPA/625/R-96/010A
7	Lead	$\mu\text{g}/\text{m}^3$	0.14				Max. 1.0	EPA/625/R-96/010A
8	Nickel	$\text{ng}/\text{m}^3$	<8.0				Max.20	EPA/625/R-96/010A
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								
9	Ozone (O <sub>3</sub> )	$\mu\text{g}/\text{m}^3$	18.5	19.2	18.8	18.83	Max. 180	IS:5182(PART-9)



### 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](http://www.idmagroup.co.in)

Email : [commercial@idmalab.co.in](mailto:commercial@idmalab.co.in)

### Disclaimer :

- The Test Report is only for the sample tested.
- Samples not drawn by us unless otherwise stated.
- Total liability of Idma Laboratories Limited is limited to the invoiced amount.
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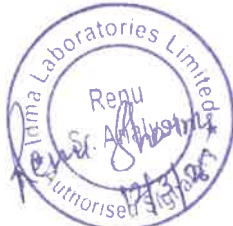


# Annexure-VIII Idma Laboratories Limited

## TEST REPORT

LAB NO.		090326N-E-008					PageNo.2/2	
S.No.	Test Parameters	Units	Results			Specification	Test Method	
10	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	0.41			Max.5	IS:5182(PART-11)	
11	Benzo-a-pyrene	ng/m <sup>3</sup>	<0.5			Max. 1.0	IS:5182(PART-12)	
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 <sup>3</sup>	0.37	0.38	0.36	0.37	Max.4	IS:5182(PART-10)

\*End of Report\*



Reviewed by

*Kartar Singh*  
12/03/26

Authorised Signatory



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## बरौनी थर्मल पावर स्टेशन ऊर्जा उत्पादन के साथ सामाजिक उत्तरदायित्व

बिहार के हृदयस्थल बेगूसराय में गंगा के किनारे स्थित बरौनी थर्मल पावर स्टेशन (500 मेगावाट) न केवल राज्य की ऊर्जा आवश्यकताओं को पूरा कर रहा है, बल्कि सामाजिक बदलाव की दिशा में भी सकारात्मक योगदान दे रहा है। वर्ष 1960 में स्थापित यह स्टेशन वर्ष 2018 में NTPC में हस्तांतरित हुआ, और यहाँ से उत्पादित 100% विद्युत बिहार राज्य को समर्पित है। यह स्टेशन राज्य के विकास का मजबूत आधार और प्रगति का सच्चा भागीदार है।

यहां ऊर्जा उत्पादन केवल तकनीकी प्रक्रिया नहीं, बल्कि जन-कल्याण की प्रतिबद्धता है। एनटीपीसी, बरौनी की पहचान एक पावर स्टेशन से आगे बढ़कर एक सामाजिक रूप से जिम्मेदार संस्था की है। यह शिक्षा, स्वास्थ्य, स्वच्छता, महिला सशक्तिकरण, पर्यावरण संरक्षण और आजीविका संवर्धन जैसे क्षेत्रों में सक्रिय भूमिका निभा रहा है – ताकि बिहार को ऊर्जा के साथ-साथ आशा, अवसर और आत्मनिर्भरता भी प्राप्त हो सके।

2

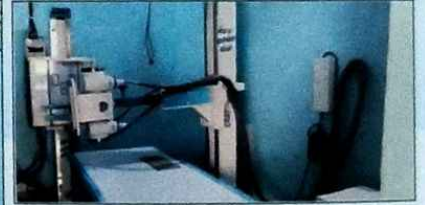
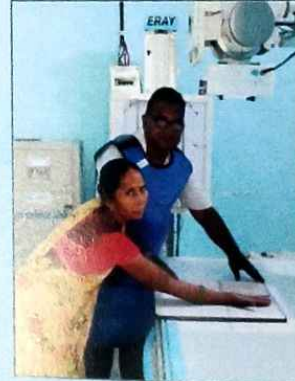
## समर्पित स्वास्थ्य सेवा

एनटीपीसी द्वारा मोबाइल मेडिकल यूनिट (MMU) का संचालन दूरस्थ समुदायों को गुणवत्तापूर्ण स्वास्थ्य सेवाएं सुलभ कराने की एक प्रभावी पहल है। प्रशिक्षित स्वास्थ्य कर्मियों और आधुनिक उपकरणों से सुसज्जित यह यूनिट परामर्श, जांच एवं निःशुल्क दवाओं के साथ-साथ स्वास्थ्य, स्वच्छता एवं पोषण संबंधी जागरूकता कार्यक्रम भी संचालित करती है। हर माह लगभग 3000 लाभार्थी—विशेषकर महिलाएं, बच्चे, वृद्ध एवं दिव्यांगजन—इससे लाभान्वित हो रहे हैं। यह प्रयास “स्वस्थ समाज – समृद्ध समाज” की भावना को साकार करते हुए समुदाय में विश्वास और सशक्तिकरण को प्रोत्साहित कर रहा है।



◆ 10 स्वास्थ्य उपकेंद्र

◆ 40+स्थान



क्षेत्रीय स्वास्थ्य सेवाओं को सशक्त बनाने हेतु एनटीपीसी बरौनी ने सीएचसी बरौनी को ऑटो एनालाइज़र, अल्ट्रासाउंड, एक्स-रे मशीन व 4 एसी सहित आधुनिक उपकरण प्रदान किए हैं।

## सम्मान और आत्मनिर्भरता का संकल्प

एनटीपीसी बरौनी का विश्वास है कि हर व्यक्ति को गरिमापूर्ण और आत्मनिर्भर जीवन जीने का अवसर मिलना चाहिए। इसी सोच के तहत दिव्यांगजनों को समाज की मुख्यधारा से जोड़ने का प्रयास किया गया।

ALIMCO के सहयोग से बरौनी, मटिहानी और बखरी में आयोजित कार्यक्रमों के माध्यम से 800 दिव्यांगजनों को सहायक उपकरण प्रदान किए गए। यह पहल एक समावेशी समाज के निर्माण की दिशा में एनटीपीसी का स्थायी प्रयास है।



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## शिक्षा



**मजबूत नींव से बेहतर निर्माण - शिक्षा के लिए सुदृढ़ नींव**  
 एक अच्छा शैक्षिक वातावरण केवल पुस्तकों से नहीं, बल्कि बेहतर सुविधाओं से भी बनता है। इसी उद्देश्य से स्कूलों में शौचालय, कक्षाओं, डेस्क-बेंच और पेयजल जैसी आवश्यक संरचनाओं का निर्माण एनटीपीसी बरौनी द्वारा किया जा रहा है। यह कार्य सामुदायिक विकास नीति के अंतर्गत संचालित है, जो शिक्षा के मूलभूत आधार को मजबूत करता है। यह केवल ईट-पत्थर का निर्माण नहीं, बल्कि भविष्य की नींव को मजबूत करने का प्रयास है।



## मेधा का सम्मान - उत्कर्ष स्कॉलरशिप

'उत्कर्ष स्कॉलरशिप' एनटीपीसी बरौनी की एक प्रेरणादायी पहल है, जिसके अंतर्गत 10वीं और 12वीं उत्तीर्ण मेधावी छात्रों को छात्रवृत्ति प्रदान की जाती है। यह योजना केवल आर्थिक सहयोग नहीं, बल्कि छात्रों के आत्मविश्वास को बढ़ाने और उनके उज्ज्वल भविष्य की नींव रखने का माध्यम है।



## डिजिटल लर्निंग - तकनीक के साथ नवाचार



आज की शिक्षा को कल की ज़रूरतों से जोड़ना आवश्यक है। एनटीपीसी द्वारा 10 सरकारी विद्यालयों में स्मार्ट क्लास की स्थापना की गई है, जिससे विद्यार्थी इंटरएक्टिव और विजुअल लर्निंग के अनुभव से लाभान्वित हो रहे हैं। साथ ही, सरकारी ITI और महिला ITI, बेगूसराय में 100 आधुनिक कंप्यूटर, टैबलेट व कुर्सियों से युक्त स्मार्ट लैब्स स्थापित की गई हैं - जो युवाओं को तकनीक-आधारित शिक्षा व रोजगार की दिशा में अग्रसर कर रही हैं।



## सपनों को पंख - बालिका सशक्तिकरण अभियान



बालिका सशक्तिकरण अभियान के अंतर्गत आस-पास के गाँवों की 25 बालिकाओं के लिए परियोजना परिसर में चार सप्ताह की आवासीय कार्यशाला का आयोजन किया जाता है। इस कार्यक्रम में उन्हें शिक्षा, स्वास्थ्य, स्वच्छता, व्यक्तित्व विकास और आत्मविश्वास से जुड़ी विभिन्न गतिविधियों के माध्यम से प्रशिक्षित किया गया, ताकि वे स्वयं निर्णय ले सकें और अपने जीवन की दिशा तय कर सकें।



## जन प्रसार गतिविधियाँ

घर-घर तिरंगा, स्वच्छता पखवाड़ा, विश्व जल दिवस एवं पर्यावरण दिवस जैसे अभियानों को जनसामान्य से जोड़ने के लिए विभिन्न रचनात्मक कार्यक्रमों का आयोजन किया जाता है। विद्यालयों में भाषण, निबंध, चित्रकला, वाद-विवाद जैसी प्रतियोगिताएँ होती हैं, जो बच्चों में जागरूकता और रचनात्मकता को बढ़ावा देती हैं। समुदायों में नुक्कड़ नाटक आयोजित कर संदेशों को सरलता से आम जन तक पहुँचाया जाता है। ये गतिविधियाँ न केवल प्रतिभागियों को अभिव्यक्ति का मंच देती हैं, बल्कि उनमें सामाजिक जिम्मेदारी और भागीदारी की भावना भी उत्पन्न करती हैं।



## पर्यावरण संरक्षण

एनटीपीसी एक उत्तरदायी औद्योगिक इकाई है जो पर्यावरण संरक्षण को प्राथमिकता देती है। वन विभाग के परामर्श अनुसार, क्षेत्र में हरित आवरण बढ़ाने हेतु 80,000 से अधिक पौधे लगाए गए हैं। यह वृक्षारोपण अभियान सतत रूप से जारी है, जो पर्यावरण संतुलन बनाए रखने की हमारी प्रतिबद्धता को दर्शाता है।



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## खेलकूद एवं सांस्कृतिक गतिविधियाँ

एनटीपीसी खेलकूद से जुड़ी स्थानीय योजनाओं के माध्यम से बच्चों को निरंतर प्रोत्साहित कर रही है। कबड्डी, वॉलीबॉल, दौड़, क्रिकेट व बैडमिंटन जैसी प्रतियोगिताओं में सहयोग दिया जाता है। बिहार दिवस, बेगूसराय स्थापना दिवस व दिनकर जयंती जैसे सांस्कृतिक आयोजनों में भी एनटीपीसी की सक्रिय भागीदारी रहती है, जिससे क्षेत्रीय जुड़ाव मजबूत होता है।



## विविध

प्राकृतिक आपदाओं से उत्पन्न विषम परिस्थितियों में लोगों को राहत सामग्री के रूप में भोजन, पानी एवं अन्य आवश्यक वस्तुओं की उपलब्धता सुनिश्चित की गई।



पुलिस थाना चकिया में स्थानीय जनता को बेहतर स्वच्छता सुविधा उपलब्ध कराने के लिए शौचालय कॉम्प्लेक्स का निर्माण किया गया है।

स्थानीय महिलाओं और किसानों के सशक्तिकरण के उद्देश्य से ब्यूटीशियन, सिलाई तथा मशरूम उत्पादन से संबंधित आजीविका उन्मुख प्रशिक्षण कार्यक्रम आयोजित किए गए हैं।



पुस्तकालयों में मूलभूत संरचना को सुदृढ़ करने के लिए आवश्यक सामग्री उपलब्ध कराई गई है। हमारा प्रयास है कि जरूरतमंदों तक उनकी आवश्यकताओं के अनुरूप सहायता समन्वित एवं समर्पित रूप से पहुंचाई जा सके। हम विद्युत उत्पादन के साथ-साथ आसपास के पर्यावरण और सामाजिक परिवेश को भी बेहतर बनाने के लिए प्रतिबद्ध हैं।

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