एनटीपीसी NTPC
A Maharatna Company

एनटीपीसी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)

सिम्हाद्रि
SIMHADRI

SIMHADRI/EMG/015/ **Date: 22.06.2026**

To,

Ministry of Environment, Forest and Climate Change
Integrated Regional Office (IRO)
Green House Complex
Gopal Reddy road,
Vijayawada – 520 010 Andhra Pradesh

Dear Sir,

Sub: Submission of Half Yearly Compliance Reports

Ref: Consent order No. APPCB/VSP/12334/HO/CFO/2002- dated 19.10.2022 valid up to 31.08.2027.

Please find herewith enclosed "Half Yearly Compliance" of NTPC-Simhadri Super Thermal Power Station as on 31.03.2026 for your record and reference.

01) Compliance CRZ conditions
02) Compliance of CFO conditions
03) Compliance of CFE St-I conditions
04) Compliance of CFE St-II conditions
05) Compliance of EC St-I conditions
06) Compliance of EC St-II conditions

Thanking you,

Yours faithfully,

(S H Krishna)
DGM (EMG)

Copy to:

1. The Member Secretary,
A.P. Pollution Control Board,
Door No 33-26-14 D/2, Near Sunrise Hospital,
Pushpa Hotel Centre, Chalmalavari Street, Kasturibaipet
Vijayawada – 520 010

2. A.P. Pollution Control Board,
Regional Office,
D.No.39/30/20/4/1, 3rd Floor,
VUDA Colony, Phase-I, Madhavadhara,
VISAKHAPATNAM-530 008

COMPLIANCE STATUS

OF

CONSENT FOR Operation

(4x500 MW)

NTPC Limited

SIMHADRI SUPER THERMAL POWER STATION

ENVIRONMENT MANAGEMENT GROUP

NTPC-SIMHADRI (PO)

PIN: 531 020

Andhra Pradesh

As on 31.03.2026

i) Outlets for discharge of effluents:
Stage-I (unit 1&2) -1000MW

Outlet No.	Outlet Description	Max Daily Discharge (KLD)	Point of disposal	Status
1.	D.M. Plant Regeneration effluent	3,400	Reused for Ash Slurry preparation	Complied; well within limits. Reused for Ash slurry preparation
2.	Boiler Blow Down and once through Cooling Water aftertreatment	1,03,900	Into Sea	Complied. Discharged through a marine outfall designed by NIO Goa
3.	Ash Pond Effluent	9,600	Reused for Ash Pumping	Complied. Reused for Ash pumping.
4.	Domestic	1,790	After treatment in STP,onland for Plantation / Gardening.	Complied.
	Total	1,18,690		

Stage-II (unit 3&4) -1000MW

Existing Outlet No.	Outlet Description	Max Daily Discharge (KLD)	Point of disposal	Status
1.	Filter Back wash	240	Recycled to clarifier inlet	Recycled to clarifier inlet
	CHP effluent	4,800	Sedimentation, Treatment & Recycle	Sedimentation, Treatment & Recycle

2.	DM Plant Regeneration Waste	240	Neutralization and disposal through Central Monitoring Basin (CMB) and excess treated effluents to Sea.	In line with St- I DM regeneration system, St- II regeneration waste also is reused for Ash slurry preparation.
	Cooling Tower blow down	1,06,320	Partial use and disposal through CMB andexcess treated effluents to Sea.	Complied. Discharged thro' a marine outfall designed by NIO Goa
	Boiler Blow down	1,080	Disposal through CMB and excess treated effluents to Sea.	Complied. Discharged thro' a marine outfall designed by NIO Goa
	Ash water Blow down	34,320	Disposal through CMB and excess treated effluents to Sea.	Complied.
3.	Clarifier Sludge	720	Disposed in ash pond	Complied.
4.	Domestic	2,400	After treatment in ETP, Onland for Plantation / Gardening	Complied
	Total	1,50,120 (6255 m^3/ hr)		

ii) Emissions from Chimney:

Chimney No.	Description of chimney	Quantity of Emissions in m^3/hr per each Unit at peak flow	Compliance status
1	Attached to 2×1675 TPH Coal Fired Boilers (stage-I:1000 MW)	2,851,560	Complied. Peak flow maintained less than 26 Lac m^3/hr/Unit in St-I units.
2	Attached to 2×1675 TPH Coal Fired Boilers (stage-II:1000 MW)	2,899,800	Complied. Peak flow maintained less than 26 Lac m^3/hr/Unit in St-I units.
3	Attached to 6×1500KVA D.G sets	-	DG sets kept for emergency purpose during complete blackout/grid failures. Not operated regularly

iii) Hazardous waste authorization (From-2)

Sl. No	Name ofthe waste	Stream	Quantity	Disposal Option	Status
1.	Waste /Used oil	5.1 of Schedule – I	150 KL/Annum	Shall be routed through APEMC to authorized Reprocessors / Recyclers. (As recyclable waste)	Complied.
2.	Fuller Earth / Filter Media material	5.2 of Schedule -I	5000 Kg/annum		Complied.
3.	SpentResin	35.2 of Schedule -I	20000 ltrs/annum	Shall be routed through M/s.APEMCL to preprocessor / cement industries for co-processing. (As utilizable waste).	Complied
4.	Oil Soaked CottonWaste	5.2 of Schedule -I	500 Kg/annum		Complied
5.	Insulation Wool	33.2 of Schedule – I	150 MT/annum	Shall be routed through APEMC to TSDF, Visakhapatnam. (As landfill waste)	Complied. 22.40 MT disposed during FY 2025-26

SCHEDULE-A

S.No.		Comments
1	Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.	Complied
2	The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.	Complied
3	All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.	Complied
4	The industry should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises	Complied
5	Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.	Complied
6	The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.	Complied
7	The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.	Complied Last report submitted 29.09.2025

8	The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.	Complied
9	The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises /lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.	Complied
10	Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as perAndhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.	Complied
11	The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as perthe Rules in vogue.	Complied
12	The industry may explore the possibility of tapping the solar energy for their energy requirements.	25 MW floating solar plant commissioned above raw water reservoir.
13	The industry should educate the workers and nearby public of possible accidents and remedial measures.	Complied

SCHEDULE-B

S.No.		Comments
1	The industry shall obtain Fire NOC.	Fire NoC obtained and complied
2	The industry shall rectify the water sprinklers in L-1 as fugitive emissions were observed	Complied

3	The industry shall maintain permanent mechanical sprinklers for suppression of dust on the haul roads in between the villages and report the compliance to RO- Visakhapatnam.	08 no.s of water tankers on daily basis for surface sprinkling is being deployed Complied.
4	The industry shall complete installation of Flue Gas De-sulphulrization (FGD) system to the stack attached to coal fired boilers.	As per MoEF notification dated 30.12.2024, the deadline for completion of FGD works is 31.12.2027 NTPC - Simhadri completed installation of FGD in all its units.
5	The industry shall ensure the PM10 concentration at Pittavanipalem(V), Parawada, Visakhapatnam is below the standards mentioned in this order.	Complied
6	The industry shall ensure to meet the ground water standards as per drinking water specification IS-10500:2012 standards	Noted & Complied
7	Green belt of adequate width and density shall be maintained along the boundary of the industry and around ash ponds with minimum area of 33% of total area and to protect surrounding Villages from fugitive dust.	Complied
8	The industry shall remove the existing 150 tons of cenosphere in the premises.	Completed and complied
9	The industry shall not operate draft cooling towers without obtaining permission for the Board.	Noted and same shall be complied.

1. The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below.

Outlet	Parameter	Limiting Standards	Status
2	**pH**	6.50-8.50	All the parameters are maintained within the limits. Regular sampling by APPCB as well as NTPC is carried out and compliance confirmed.
	Temperature not more than 5° C higher than intake water		
	Total suspended solids (at 103-105°C)	100mg/l	
	Oil and grease	20mg/l	
	free chlorine	0.5mg/l	
	Phosphate as PO4	20mg/l	
	Chromium(total)	0.2mg/l	

	Copper (total)	1mg/l	NABT recognized third party is engaged for sample collection and reports submitted
	Iron	1mg/l	
	Zinc	1mg/l	
4	pH Total suspended solids (at 103-105°C) Bio chemical oxygen demand(BOD 3 AT 27°C)	5.5-9.0 200mg/l 100mg/l	
	Total dissolved solids	2100mg/l	

Stage-I(Unit-1&2)-1000MW

S.No	Purpose	Quantity in KLD	STATUS/COMPLIANCE
1	Industrial Cooling (Makeup) - sea water	216000	Complied; Maintained less than 1.5 Lakh KLD on all days.
2	DM plant	4320	Complied
3	Domestic (including gardening/irrigation)	4080	Complied
	Total	224400	

Stage-II(Unit-3&4)-1000MW

S.No	Purpose	Quantity in KLD	STATUS/COMPLIANCE
1	Industrial Cooling (Makeup) - sea water	213240	Complied; Maintained less than 1.5 L KLD on all days
2	DM plant	13200	Complied.
3	Domestic (including gardening/irrigation)		
	Total	226440	

3.The industry shall fill the water cess returns in Form- as required under section (5) of water (prevention and control of pollution) cess act,1977 on or before the 5th of every calendar month, showing the quantity of water consumed in previous month along with water meter readings. The Industry shall Remit Water cess As per the assessment orders as and when issued By Board.	With the implementation of New Taxation Law, 2017, APPCB has stopped Cess assessments to industries / urban local bodies from 01.07.2017 onwards. **(APPCB, communication, Ref. No.Lr. No.214/PCB/ROV/Tech/2018,dated 15.03.2018)**
4. The Emissions shall not contain Constituents in excess of the prescribed limits maintained below.	Complied. The emissions from stage I and Stage II units are within the limiting standards
5.The industry Shall comply with emission limits for DG sets of capacity upto 800KW as per the Notification G.S.R.520(E),01.07.2003 Under	The DG sets are envisaged and installed in the Power station for emergency conditions like complete blackout/grid failure when no power is

the Environment(protection) Amendment Rules, 2003 and G.S.R448 (E) , Dated 12.07.2004 under the Environment(protection) amendment Rules, 2004. In case of DG sets capacity more than 800KW comply with Emission limits as per the Notification G.s.r.489(E), Dated 09.07.2002 at serial No.96 Under the Environment (protection) Act, 1986	available and required only for keeping vital equipment of the power house in safe condition. These are operated very rare and practically no emissions from the DG set.
6.The industry Shall comply with Ambient Air Quality Standards of PM10(Particulate Matter size less than 10µm) -100µg/m3 ; PM2.5 (Particulate Matter size less than 2.5µm) -60µg/m3; SO2 -80µg/m3; Nox -80µg/m3 outside the factory premises at the periphery of the industry	The Ambient Air quality Parameters are well within the prescribed limits.; Being monitored on real time basis and values are uploaded to PCB website. NABT recognized third party is engaged for sample collection and reports submitted
Standards for other Parameters as mentioned in the National Ambient Air Quality standers CPCB Notification No.B-29016/20/90/PCI-I dated 18.11.2009 Noise Levels: Day Time (6am to 10pm) -75dB Night time(10pm to 6am) -70 dB (A)	The noise parameters are within the stipulated standards and reports are being submitted to PCB regularly.
7. The industry shall not increase the capacity beyond the permitted Capacity Mentioned in this order without obtaining CFE & CFO of the Board	Daily Generation is maintained less than 48 MU throughout the year.
8. The industry shall submit detailed action plan within one month for fly ash utilization as per the Fly Ash Notification on MoEF to the Board to achieve 100% utilization of fly ash	Ash Utilization % is more than 100% since 2017-18 and during 2025-26 the AU is 105.7%; Detailed Fly ash action plan submitted to PCB
9. The industry shall maintain permanent mechanical sprinklers for suppression of dust on the roads in between the villages and report the compliance to RO-Visakhapatnam.	08 no.s of water tankers on daily basis for surface sprinkling is being deployed Complied.
10. Refurbished Environment Management Team with dedicated man power shall be maintained for continuous monitoring of plant environment to ensure compliance of CFO conditions	Separate Environment management Group is available at station and the team is manned with dedicated manpower for continuous monitoring of plant environment to ensure compliance of CFO conditions.
11. The industry shall maintain 3 CAAQM Stations connected to APPCB website and report the compliance to RO-Visakhapatnam	The CAAQM stations are connected to APPCB website.
12. The Industry shall maintain online Stack and ambient monitoring systems with connection to the Boards website	The Stack and CAAQM stations are connected to APPCB website.
13. The industry shall Maintain duly Compacted under soil cover of requisite thickness as per	Presently the dyke L2 and L3 are utilized for the disposal of ash for NHAI road projects. The L1 & L4 dyke are under water cover.

norms for the ash ponds to avoid dust pollution and report the compliance to RO-Visakhapatnam	
14. The industry shall submit Isotopic study report of M/s NEERI on impacts on ground water due to ash ponds and report the compliance to RO-Visakhapatnam. Continuous monitoring of the ground water quality in all sides of the plant shall be carried out	The study was conducted by M/s NEERI and report submitted. Being Complied.
15. The Industry shall take necessary measures like ammonia dosing to maintain ESPs attached to the boilers so as to meet SPM standards all the time.	Ammonia dosing facility is available and operated as when needed.
16. The industry maintain data logging facility provided for storing online stack emission data properly, for retrieval as and when necessary. Industry shall submit monthly report to the RO-Visakhapatnam	Complied; The real time stack monitoring values are uploaded to PCB site and Third party monitoring Monthly reports are being submitted to PCB
17. The industry shall maintain water meters for recording consumption of Sea water / water from Yeleru canal and maintain proper records for daily water consumption. They shall submit monthly reports to the RO, Visakhapatnam	Water meters are provided for recording consumption of sea water and water from Yeleru canal and the records are maintained. Monthly reports are submitted regularly to RO.
18. The industry shall make proper arrangements for collection of seepage from ash pond and pumped back into the ash water system, so as to avoid ground water pollution in the surrounding area	Garland canal is constructed for collection of seepage from ash pond and same is pumped back to ash water system. Toe drain is constructed for routing of ash water to garland drain and then to recirculation thereafter
19. The industry shall maintain water cover in the ash pond area to prevent fly ash from getting air borne and causing air pollution in the surrounding area especially to the residents of Pittavanipalem	Water cover maintained to prevent fly ash from getting air borne.
20. Efforts shall be taken to dispose fly ash in dry form as much as possible instead of divert it to wet ash pond due to paucity of land available and due to lack of secured landfill arrangement in the ash pond. Dry ash collection systems of stage 1&2 shall be maintained properly	Dry ash extraction system provided and ash issued round the clock . Moreover the AU for the FY 2025-26 was 105.7% with more than 100% AU for the last 9 years.
21. The industry shall monitor all ground water peizo wells and submit report to RO-Visakhapatnam every three months indicating trends.	Ground Water reports are regularly submitted to RO.
22. Garland canal shall be maintained around the fly ash pond to collect water that is expected to leach out and monitoring of such leachates shall be carried out.	Garland canal constructed and maintained. Ash water is being monitored regularly.

23. After increase in the bund level and increase in the storage capacities due to the lateral pressures the aquifer may be influenced due to the leachates. The shall maintain sufficient fresh water in the borrow pits which act to counter the lateral pressures and contain the leachates if any percolate into strata.	Presently water is available in the pits. However the pits do not belong to NTPC.
24.The industry shall act on pollution problems that arise out of the ash pond and shall take any measures to contain by taking time to time action to dispel any apprehensions by the residents of the villagers. If it is required the industry shall take up the corrective measures like introducing geo-textiles vertically in the sub-surface levels in the detected areas of leaching.	No pollution attributed by leaching has been observed.
25. The industry shall not use any fuels other than those permitted in this order without prior consent from the Board. They shall maintain log registers on type of fuels & daily consumption, ash content, sulphur content etc., and shall furnish consolidated records to RO, Visakhapatnam for every three months	Complied.
26. The Industry shall maintain the Interlocking facility between APC equipment (ESP) and fuel feeding system, so that the feeding of the fuel will be stopped automatically, in case, the ESP fails/ trippings are occurred.	Interlocking facility is provided for all the units.
27. The industry shall maintain separate water meters to assess the quantity of water consumed at various sections. The industry shall provide separate water meters with necessary pipeline for assessing the quantity of water used for each of the purposes mentioned below: a. Industrial cooling, boiler feed. b. Domestic purposes. c. Processing, whereby water gets polluted and pollutants are easily biodegradable. d. Processing, whereby water gets polluted and pollutants are not easily biodegradable	Separate water meters are provided for assessing water consumption of various sections.

28. The industry shall maintain the following records and the same shall be made available to the Board Officials during the inspection: a. Daily power generation details. b. Quantity of Effluents generated and disposed c. Log Books for pollution control systems. d. Daily Fly ash generated and disposed	Records are being maintained as per the directions
29. Green belt adequate width and density shall be maintained along the boundary of the industry and around the ash ponds with minimum area of 33% of total area and as per CFE Order dated 01/10/2007 to protect surrounding village fugitive dust.	Simhadri STPP started planting trees right from the approval stage of setting up the station i.e from the year 1998 and will be continued. Around 7,000 nos. of tall growing species of tree plantation have been planted around coal piles to mitigate fugitive dust emission. Extensive plantation and afforestation are being undertaken in all available spaces in and around Simhadri. Till date 6,60,000 No's of Trees are planted in 605 Acres of plantation in and NTPC-Simhadri; In addition, 5,50,000 No's of Plantation under Green Visakha Plantation programme in and around city of Visakhapatnam have been completed after the grant of Environmental Clearance (EC) dated 23.07.1996 and 01.08.2007. To support State Government's Plantation Program in the area "Haritha Haram" plantation of 2,80,000 Lakh trees were planted in Paderu under accelerated afforestation program. In addition to this, annual target of 40,000 tree saplings is being carried through Andhra Pradesh Social forestry division since 2019. Over 25,000 No's of saplings are planted under VANAM MANAM program of Andhra Pradesh Government. After the HUDHUD cyclone, to compensate the greenery loss, NTPC Simhadri had contributed around Rs.50,00,000 by distributing 3,50,000 No's of fruit bearing trees in six mandals of Vishakhapatnam District. In the year 2025-26 40,000 saplings planted through AP Forest Department. It amounts to contribution of an afforestation area of about 3285 acres in total.
30. The Industry shall Comply with Directions issued by Board from time to time	Being complied.
31. The Industry Shall comply with the MoEF,GoI Notification dt.14.09.1999 and other Directions issued time to time with Regard Utilization of ash	As per Sl No 8 above.
32.The industry shall take measures Around The Ash Pond Area to avoid Entry of Animals in Order	Complied.

to Prevent accidents, breakage of Emergency ponds and protection of Green belt	

SCHEDULE-C
[SEE RULE 5{4}]
(CONDITIONS OF AUTHORISATION OF OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES)
[SEE RULE 5{4}]

1. All the rules and regulations notified by the Ministry of Environment and Forests, GoI under E(P) Act 1986 in respect of management , handling , transportation and storage of hazardous waste should be followed	**Complied.**
2. The industry shall not store hazardous waste for more than 90 Days as per the Hazardous wastes (management. Handling and transboundary Movement) Rules, 2008 and amendment thereof	**Being disposed to Authorized recyclers**
3. The industry shall store Used/waste oil and used Lead acid Batteries in a secured Way in their Premises Till its Disposal	**Complied.**
4. The industry shall maintain 6 copy manifest system for Transportation of Waste Generated and a copy Shall be submitted to Board Office and concerned Regional Office	**Being disposed to Authorized recyclers through MSTC.** **Hazardous waste being disposed through APEMCL portal with online manifest.**
5. The industry shall maintain proper records for Hazardous waste started in Authorization in Form-3 i.e., quantity of incinerable waste, land Disposal waste, recyclable waste etc., and file annual Return in Form-4 as per Rule 22(2) of the Hazardous Waste (management , Handling & trans-boundary Movement) Rules,2008 and Amendment thereof	**Complied.**
6. The industry Shall submit the conditions wise compliance report of the conditions stipulated In Schedule A, B & C of this Order on Half-Yearly Basis to Board office, Hyderabad and Concerned regional Office.	**Complied.**

COMPLIANCE STATUS
OF
CONSENT FOR ESTABLISHMENT (CFE)
Stage-I (2x500 MW)

NTPC Limited
SIMHADRI SUPER THERMAL POWER STATION

ENVIRONMENT MANAGEMENT GROUP
NTPC-SIMHADRI (PO)
PIN: 531 020
Andhra Pradesh

As on 31.03.2026

NTPC - SIMHADRI THERMAL POWER STATION
[Stage – I (2x500 MW)]

COMPLIANCE STATUS OF CONSENT FOR ESTABLISHMENT

S. No.	CFE condition	Status of Implementation
01.	Trees shall be planted and maintained in the vacant spaces of the premises, at-least in an area of 4 times the build-up area of the industry. Tree plantation shall be the first item to be taken up before starting construction. Area of plantation shall be such that if replenishes the amount of oxygen consumed by the process operations and consequent release of pollutants into atmosphere.	Simhadri STPP started planting trees right from the approval stage of setting up the station i.e from the year 1998 and will be continued. Around 7,000 nos. of tall growing species of tree plantation have been planted around coal piles to mitigate fugitive dust emission. Extensive plantation and afforestation are being undertaken in all available spaces in and around Simhadri. Till date 6,60,000 No's of Trees are planted in 605 Acres of plantation in and NTPC-Simhadri; In addition, 5,50,000 No's of Plantation under Green Visakha Plantation programme in and around city of Visakhapatnam have been completed after the grant of Environmental Clearance (EC) dated 23.07.1996 and 01.08.2007. To support State Government's Plantation Program in the area "Haritha Haram" plantation of 2,80,000 Lakh trees were planted in Paderu under accelerated afforestation program. In addition to this, annual target of 40,000 tree saplings is being carried through Andhra Pradesh Social forestry division since 2019. Over 25,000 No's of saplings are planted under VANAM MANAM program of Andhra Pradesh Government. After the HUDHUD cyclone, to compensate the greenery loss, NTPC Simhadri had contributed around Rs.50,00,000 by distributing 3,50,000 No's of fruit bearing trees in six mandals of Vishakhapatnam District. In the year 2025-26 40,000 saplings planted through AP Forest Department. It amounts to contribution of an afforestation area of about 3285 acres in total.
02.	The industry shall recycle the ash pond and DM Plant effluents.	Ash pond effluents are being recycled and being used for Ash slurry makeup. Treated DM Plant effluent is being used for Ash Slurry make up.
03.	The industry shall treat the cooling wastewater through the marine coastal standard and domestic waste water on land for irrigation standards stipulated under Environmental (Protection) Rules, 1986 as amended upto date, notified under Environment Protection Act, 1986 by	a) A closed cycle cooling system using Natural Draft Cooling Tower (NDCT) has been provided for treating cooling water. There are two cooling towers each of 165 m height. The cooling tower blow down is partly re-utilized and balance is brought to Central Monitoring Basin (CMB).

	Ministry of Environment & Forests, Government of India.	The effluent treatment system has been designed so that the treated waste water confirm to marine coastal standards. b) Sewage Treatment Plant :– Separate Sewage treatment plant for Township and project area are provided. The treated water is used for the horticulture purpose.
04.	The run-off water from coal yard shall be treated to on land for irrigation standards before final disposal.	Coal dust settling pond has been provided to treat run off water from coal stock yard. The clear supernatant water is being continuously monitored by EQMS (Effluent Quality Monitoring Station) system before leaving to Marine Outfall.
05.	The Industry shall discharge the cooling water into the sea through a suitable drain/submarine pipeline.	Closed cycle cooling water system has been provided for this project. Cooling tower blow down is partly re-utilized. Balance blow down is being brought to Central Monitoring Basin from where it is discharged into the sea through a suitable drain/submarine pipeline. The marine outfall consists of 6 port diffuser of 0.4 m diameter each, 25m apart. Vertical inclination ports directed towards the shore and away from the intake.
06.	The industry shall treat domestic effluents by adopting suitable technology such as oxidation ponds, aerated lagoons etc. and discharge the treated effluents etc. on land for irrigation by gardening.	The domestic effluents are treated in aerated tanks to conform to the standards. The capacity of the plant is 1790 m^3/day. The plant comprised of following units: a) Raw sewage pump house along with coarse screen. b) Grit chamber, parshall flume along with medium screen. c) Aeration Tank. d) Secondary clarifier along with Return sludge pump. e) Fish pond. f) Sludge drying bed. The BOD level of the treated effluent is less than 20 mg/l and TSS is 30 mg/l. The effluent is being disinfected with bleaching powder dosing. The treated sewage is used for the horticulture purpose inside the township area to the extent possible. However, the surplus sewage, if any, is discharged into the natural stream for the utilization in fields on request from farmers.
07.	The cooling water used in the once through system if treated with Biocide will effect the biota of the sea and fishing also, in the proximity of the discharge point. It should be controlled by properly designed outfall into the sea.	Closed cycle cooling system has been adopted. Biocide application is negligible when compared to open Cycle. Further Monitoring of effluents is being done continuously.
08.	The industry shall install and commission	• The Electro Static Precipitators (ESP) are

	appropriate control equipment for control the stack emission to meet the following emission standards :- a) Particulate matter – 100 mg/NM3. b) The industry shall install a stack of 275 mts. Height.	designed for a guaranteed efficiency of 99.93%. • ESPs are designed with 64 fields to limit the particulate emission to less than 100 mg/Nm3 under worst coal firing conditions • Stacks of 150 mt. has been provided at each unit with FGD.
09.	The industry shall install suitable control equipment facilities in the coal handling plant and dust suppression in all coal & material handling area should be achieved through appropriate measures.	Dust suppression systems have been provided in coal handling area including coal stock yard area for control of coal dust. At specified locations, chem.-jet suppression system has been provided which comprises of spray equipment with a wetting agent in a fine mist to capture air borne dust particles. Clarified water is used for chem.-jet dust suppression system. For Track Hopper Top and Coal Stockyard plain water spray system has been provided which comprises of fine spray nozzles. Water is discharged through a pipe work system through spray heads along the entire length of track hopper on each side. The track hopper spray system is of fogging type. For suppression of dust in the coal stockyard, seawater is used. The spray heads in the coal stockyard area comprises of swiveling type spray units spaced at an interval of approx. 40 m around each coal-pile.
10.	The Industry shall submit the detailed proposals on Effluent Treatment and Air Pollution Control Equipment for Board" perusal within 2 months from the date of issue of this letter.	A detailed write-up on air pollution control equipment and effluent treatment was submitted to APPCB on 03.06.1997.
11.	The industry shall construct and commission the effluent treatment plant and install air pollution control equipment along with the commissioning of the industry. All the units of the ETP shall be impervious to prevent ground water pollution.	The effluent treatment system equipments construction started along with main plant units and had been commissioned.
12.	The industry shall plan for complete utilization of the fly ash right from the date of commissioning of the plant.	An ash utilization plan has been prepared in line with the Gazette notification on ash utilization. The plan has been submitted to APPCB/MOEF&CC.
13.	The Industry shall either procure washed coal or set up a coal washery for the thermal power plant.	MOEF&CC has permitted use of raw coal.
14.	The industry shall provide adequate space for installing flue gas desulphurization system (FGD system) in their layout, so that the same can be installed as and when prescribed by AP Pollution Control Board.	As per the latest extension notification of MoEF & CC dated 30.12.2024 Simhadri STPP is obligated to complete the FGD work now by 31.12.2027. However, NTPC - Simhadri completed installation of FGD in all its units.

15.	The industry shall make arrangements to prevent fly ash from being air borne from the fly ash dumps.	A water cover is maintained in ash disposal area and water sprinkling / earth cover is provided in dry portions of ash pond.
16.	The temp rise shall minimal at the cooling water discharge point and shall meet the standards prescribed under the E (P) Act.	The closed cycle cooling towers have been provided for condenser cooling water. Thus there would be no hot water discharge. The CT blow down is partly re-utilized and balance amount left is well within differential temperature limits.
17.	Fire protection measures to control spontaneous combustion within the coal yard shall be adopted.	As per established industrial practice, hydrant system comprising of piping, valve, hoses, nozzles etc. have been provided around the coal yard to control all types of fire including spontaneous combustion fire. In addition, mobile fire extinguisher systems have also been provided.
18.	The SO2 and SPM discharge into the atmosphere from their area will be high, in view of the congregation of the large number of other industries such as M/s Visakhapatnam Steel Plant, two proposed refineries and a Thermal Power Plant (M/s Hinduja National Power Corporation Ltd.,). In view of this, the industry shall use low sulphur Indian coal.	Mainly Coal from Mahanadi Coalfields, Talcher is utilized for this plant. The Sulphur content in the coal is low (0.45%).
19.	The industry shall take all steps to see that the end products of burning of the fuel do not create any pollution problem in the environment. The ambient air quality standards for industrial area shall be satisfied. Three air quality stations shall be installed at appropriate locations in consultation with AP Pollution Board.	Air Pollution control equipments have been installed to mitigate air pollution. Ambient Air Quality is being monitored manually at Three (3) mutually identified locations around the plant. In addition to the above, Three more Online AAQM Stations are also kept in service.
20.	The industry shall be dispose off the solid wastes to the satisfaction of the Board after obtaining prior approval.	Ash is the main solid waste generated from the power plant which is disposed off in a well-designed ash disposal area. This has already been submitted to APPCB/MOEF&CC.
21.	There shall not be any perceptual odour outside the industry's premises, creating nuisance to public and other environment. The industry shall adopt control measures at all stages where odour is likely to be generated.	Power plant does not create any odour problem. However, extensive plantation has been taken up to improve the environment in and around the plant.
22.	Suitable automatic flow measuring devices and monitoring equipments shall be installed. Continuous monitoring and recording devices shall be installed to measure SPM and SO_2 concentrations in the Power Plant stacks.	Suitable flow measuring devices are in operation. Continuous stack monitoring facility for measurement of Particulate, SO_2 and NO_X are in operation.
23.	The industry shall provide a sampling port for all the stacks with removable dummy of	Complied. All the systems required for the sampling for Stack Emission Monitoring is

	not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc., and should provide a platform with suitable ladder below 1 meter of sampling port to accommodate three persons with instruments. The industry shall also provide a 5 Amp. 250 V plug point on the platform.	provided for manual monitoring of stack emission.
24.	The industry shall provide inter-locking arrangements between the process and pollution control equipments in such a way that, whenever the tolerance limits prescribed by the Board are exceeded, the process comes to halt.	The required inter-locking arrangements are provided all the units.
25.	Separate power connection with energy meter shall be provided for the pollution control equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.	Separate power connections with energy meters are provided for major pollution control equipments. Proper power and chemical consumption records are maintained.
26.	The progress of construction of the main process unit shall be in proportion to the installation of pollution control measures and the plantation.	This has been followed largely.
27.	Main process unit should be located at the centre of site as far as possible and the entire site should be enclosed by tall growing green plantation, preferably of species having broad leaf area.	A green belt around the plant boundary is developed as stipulated.
28.	All the rules and regulations notified by the MoEF, Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public. The ambient Noise level shall not exceed 75 dBA at a distance of 5 mtrs. from source.	All the equipments have been designed with noise prevention enclosures. The ambient noise level conforms to the day and night prescribed standards.
29.	The generator shall be installed in a closed area with a silencer and suitable noise absorption system so as to comply with the following ambient noise level standards : 75 dBA at a distance of 5 M from source.	Complied.
30.	The industry shall install minimum stack height to the DG Set as per CPCB guidelines. The minimum of stack shall be calculated based on the following formula : H=h+0.2 KVA H: Height of stack in mts. H: Height of the building in mts. where the DG set is installed. KVA – Total Generator Capacity in KVA.	Complied.
31.	All the rules and regulations notified by	Complied.

	MoEF, Govt. of India in respect of manufacture, storage and import of hazardous chemicals promulgated under Environment (Protection) Act, 1986 shall be followed.	
32.	All the rules and regulations notified by MoEF, Govt. of India in respect of management and handling of hazardous wastes promulgated under Environment (Protection) Act, 1986 shall be followed.	Complied.
33.	All the rules and regulations notified by Ministry of Law and Justice, Govt of India regarding the Public Liability Insurance Act, 1991 shall be followed.	Complied with.
34.	The Industry shall establish Environment Cell, headed by an Environmental Engineer, for environmental management in the industry.	An Environment Cell headed by DGM level executive supported by a team with engineering and technical background has been established for environment management.
35.	The industry shall appoint a Horticulturist for looking after tree plantation work and further maintenance.	Plantation work and maintenance given to AP social Forestry division as a depository work.
36.	The industry is liable to pay compensation for any environmental damage by it, as fixed by Collector and District Magistrate, as Civil liability.	Noted.
37.	If at any time during inspection of Pollution Control Board officers or officials of licensing/servicing departments if it is found that the industry is not complying with any of the above conditions, this NOC is liable for cancellation without notice and all the services rendered and license issued shall be liable for cancellation without further notice.	Noted.
38.	The industry shall report progress on implementation of the project to this office, Regional Office, A.P.Pollution Control Board, Visakhapatnam regularly.	complied.
39.	The applicant shall obtain consent for trial production before the factory goes into trial production.	The Consent for Operation (CFO) is obtained and valid until 31.08.2027 The factory is operational since 2002
40.	Regular consent of the Board shall be obtained as required under Section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 21/22 of the Air (Protection and Control of Pollution) Act, 1981.	Consent orders are being renewed regularly and the present consent orders are valid up to 31/08/2027.
41.	The applicant shall comply with and carry out conditions issued by the Board in this consent order scrupulously. The applicant is liable for legal section as per the	Noted

	provisions of the relevant Acts in case of non-compliance of any conditions of the consent order.	
42.	Not withstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power under Section 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and under Section 21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alteration as deemed fit and stipulate any additional conditions for the purpose of the Act by the Board.	Noted.
43.	The applicant shall exhibit the consent of the Board in the factory premises as a conspicuous place for the information of the inspecting officers of different departments.	Complied. Photograph enclosed.



NTPC Limited

Simhadri Super Thermal Power Station
Parawada, Anakapalli Dist - 531020

Consent Order No : APPCB/VSP/12334/HO/CFO/2002- 19/10/2022

Date of issue 19.10.2022
Valid upto 31.08.2027

1. Water details(permitted)		Stage -I	Stage -II
S.No.	Purpose	Quantity in KLD	
1	Industrial Cooling (makeup)-Sea water	216000	213240
2	DM Plant	4320	13200
3	Domestic (Including Gardening/Irrigation)	4080	
	Total	224400	226440

2.Waste Water Generation & Mode of treatment

S.No	Outlet description	Max Daily discharge in KLD	Point of disposal
	Stage -I (Unit 1&2)		
1	DM Plant regneration effluent	3400	Reused for ash slurry preparation
2	Boiler blowdown and once through cooling water after treatment	103900	Into Sea
3	Ash Pond Effluent	9600	Reused for ash pumping
4	Domestic	1790	After treatment in STP, onland for plantation /gardening
	Total	118690	
	Stage -II(Unit 3&4)		
1	Filter backwash	240	Recycled to clarified inlet
	CHP effluent	4800	Sedimentation ,treatment & recycled
2	DM Plant regneration waste	240	Neutralisation and disposal through central monitoring basin (CMB) & excess treated effluents to sea
	Cooling tower blowdown	106320	Partial use and disposal through CMB & excess treated effluents to sea
	Boiler blowdown	1080	Disposal through CMB & excess treated effluents to sea
	Ash water blowdown	34320	
3	Clarifier sludge	720	Disposal in ash pond
4	Domestic	2400	Biological treatment and onland for plantation /gardening.
	Total	150120	

3.Emissions from Chimney

Chimney No.	Description of chimney	Quantity of Emissions in m^3/hr at peak flow
1	Attached to 2 x 1, 675 TPH Coal fired boilers (Stage -I:1000 MW)	28,51,560
2	Attached to 2 x 1, 675 TPH Coal fired boilers (Stage -II:1000 MW)	28,99,800

4.Hazardous waste generation

Hazardous waste with recycling option

S.No	Name of the hazardous waste	Stream	Quantity of Hazardous waste	Disposal option
1	Waste /Used oil	5.1 of schedule - I	150 KL/annum	Shall be routed through APEMC to authorized Reprocessors / Recyclers. (As recyclable waste)
2	Fuller Earth / Filter Media material	5.2 of schedule - I	5000 KG/annum	
3	Spent Resin	3.5 of schedule - I	20000 ltrs/annum	Shall be routed through M/s.APEMCL to preprocessor / cement indus processing.(As utilizable
4	Oil Soaked Cotton Waste	5.2 of schedule - I	500 ltrs/annum	
5	Insulation Wool	33.2 of schedule - I	150 MT/annum	Shall be routed through APEMC to TSDF, Visakhapatnam. (As landfill waste)

This consent order is valid for power generation with quantities indicated below

S.No	Product	Disposal option
1	Electricity (Coal with maximum sulphur content of 0.6% and ash content of 45%)	2000 MW (Existing: Stage – I(Unit-1&2) - 1000 MW, Existing: Stage – II(Unit-3&4)- 1000 MW)
2	Floating solar power plant	25 MW

NO PARKING

COMPLIANCE STATUS
OF
CONSENT FOR ESTABLISHMENT
STAGE- 2 (2x500 MW)

NTPC Limited
SIMHADRI SUPER THERMAL POWER STATION

ENVIRONMENT MANAGEMENT GROUP
NTPC-SIMHADRI (PO)
PIN: 531 020
Andhra Pradesh

As on 31.03.2026

NTPC – SIMHADRI SUPER THERMAL POWER STATION
[Stage – II (2x500 MW)]
COMPLIANCE STATUS OF CONSENT FOR ESTABLISHMENT
(APPCB Letter dated 01.10.2007)

Schedule: 'A'

S.No.	Consent Condition	Status of Implementation
01.	Progress on implementation of the project shall be reported to the Regional Office, AP Pollution Control Board, and Visakhapatnam once in six months.	Complied.
02	Separate energy meters shall be provided for Effluent Treatment Plant and Air Pollution Equipment to record energy consumed	Separate Energy Meters are provided for the Pollution Control Equipments like ESP, EDP Pump House, Sewage Treatment Plant etc.,
03.	The proponent shall obtain Consents for operation from APPCB, as required Under Sec. 25/26 of the Water (P&C of P) Act 1974 and under sec. 21/22 of the Air (P&C of P) Act 1981, before commencement of the activity.	The Consents for operation from APPCB have been obtained and valid up to 31.08.2027.
04.	Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act 1974 and Under Sec. 21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions by the Board.	Noted.
05.	The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the information of the inspecting officers of different departments.	Complied, Photograph enclosed
06.	Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.	Noted.
07.	Floor washing shall be admitted into the effluent collection system only	

	and shall not be allowed to find their way in storm drains or open areas. The industry shall maintain a good housekeeping. All pipe valves, sewers, drains shall be leak proof. Dyke walls shall be constructed around storage of chemicals.	Being complied.
08.	Rainwater Harvesting (RWH) structure(s) shall be established on the plant site. The proponent shall ensure that effluent shall not enter the Rainwater harvesting structure.	Rainwater Harvesting structures like recharge well, Contour Built Filters with check dams and Rainwater Harvesting Pond is created in Simhadri Plant and Township areas as suggested by Central Ground Water Board. They have suggested to monitoring ground water levels and quality at regular intervals which is being complied with religiously. Study of RWH potential for plant and Township area Conducted through Andhra University. RWH potential as per study: 45,210 m^3/year Existing Rainwater harvesting facility: 45,210 m^3/year
09.	The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act 1991 shall be followed.	Public Liability Insurance (PLI) is available with validity
10.	The order is valid for a period of **5 years** from the date of issue	Noted.

Schedule: 'B'

01.	The source of water is Sea water (8885 M3/Hr) from Bay of Bengal and Sweet water from Yeluru left bank canal (550 M3/Hr) and the maximum permitted water consumption after expansion is 4,66,920 KLD.	Complied.
02.	The Effluent Treatment Plant (ETP) shall be constructed and commissioned, and Air Pollution control equipment shall be installed along with the commissioning of the activity. All the units of the ETP shall be impervious to prevent ground water pollution.	Complied
03.	The trade effluents shall be treated to the marine water standards, stipulated under Environment (Protection) Rules, 1986 notified and published by Ministry of Environment and	

<table>
<tr><td></td><td>Forests, Government of India as specified in schedule VI vide G.S.R. 422 (E) dt. 19.05.1993 and its amendments thereof.</td><td>Being complied</td></tr>
<tr><td>04.</td><td>The maximum wastewater generation (m3/hr) shall not exceed the following as mentioned at table no.2.4.1 in the EIA report

<table>
<tr><th>Effluent stream</th><th>Quantity M^3/Hr</th><th>Treatment/ disposal</th></tr>
<tr><td>Clarifier sludge</td><td>30</td><td>Disposal in ash pond</td></tr>
<tr><td>Filter back wash</td><td>10</td><td>Recycled to clarifier inlet</td></tr>
<tr><td>DM plant regene-ration waste</td><td>10</td><td>Neutralization and disposal through CMB</td></tr>
<tr><td>CT Blow down</td><td>4430</td><td>Partial use and disposal through CMB</td></tr>
<tr><td>Boiler Blow down</td><td>45</td><td>Disposal through CMB</td></tr>
<tr><td>CHP effluent</td><td>200</td><td>Sedimentation treatment and recycle</td></tr>
<tr><td>Ash water blow down</td><td>1430</td><td>Disposal through CMB</td></tr>
<tr><td>Sanitary waste</td><td>100</td><td>Biological treatment and disposal</td></tr>
</table>

<table>
<tr><th>Source effluent</th><th>Proposed treatment</th><th>Mode of disposal</th></tr>
<tr><td>Thermal discharges from condenser and auxiliary cooling, coal handling plant waste, oily waste water, DM waste water etc. ash pond effluent</td><td>ETP</td><td>Collected into Central Monitoring Basin CMB and excess treated effluent sent to sea through existing facility</td></tr>
</table>
</td><td>Being complied

Being complied</td></tr>
</table>

<table>
<tr><td></td><td><table>
<tr><td>Sanitary waste from plant and township</td><td>STP</td><td>Shall be utilized on land for green belt after confirming to on land for irrigation standards</td></tr>
</table></td><td></td></tr>
<tr><td>05.</td><td>Separate meters with necessary pipe line shall be provided for assessing the quantity of water used for each of the purposes mentioned below:
a. Industrial cooling, and boiler feed
b. Domestic purposes
c. Processing, whereby water gets polluted and
Pollutants are easily biodegradable.
d. Processing, whereby water gets polluted and
the pollutants are not easily bio-degradable.</td><td>Complied.</td></tr>
<tr><td>06.</td><td>The proponent shall comply with the following for controlling air pollution.
Proposed:-
<table>
<tr><th>S. No</th><th>Details of Stack</th><th></th></tr>
<tr><td>a.</td><td>Attached to</td><td>Boiler</td></tr>
<tr><td>b.</td><td>Capacity</td><td>Assisted circulated drum type super heated boiler -1675 MT/Hr each (2 Nos.)</td></tr>
<tr><td>c.</td><td>Fuel form</td><td>Solid (pulverized coal)</td></tr>
<tr><td>d.</td><td>Quantity</td><td>Coal-8901 MT per day</td></tr>
<tr><td>e.</td><td>Stack height</td><td>1 x 275 mtr. with twin flue</td></tr>
<tr><td>f.</td><td>Control equipment</td><td>ESP</td></tr>
<tr><td>g.</td><td>Standard</td><td>SPM 100 mg/NM^3 as stipulated in EC dated 01.08.07 and 50 mg/NM^3 as per revised emission norms.</td></tr>
</table>
<table>
<tr><th>Details of fugitive emissions</th><th>Control equipment</th></tr>
<tr><td>Coal handling section</td><td>Dust suppression system</td></tr>
</table></td><td>• The electrostatic precipitators are designed for a guaranteed efficiency of 99.93 %.
• ESP’s are designed to limit the particulate emission to 50 mg/Nm3 under worst coal / turbine maximum operating conditions even with one series field out of operation. These ESP’s have 10 stages of fields (8 fields per stage) with total collection area of 224640m^2.
• Stacks of 150 mt. has been provided at each unit after installation of FGD</td></tr>
</table>

<table>
<tr><td>07.</td><td>A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15Amp. 250V plug point shall be provided on the platform.</td><td>All the systems required for the sampling are provided for manual monitoring of stack emission.</td></tr>
<tr><td>08.</td><td>Space provision shall be made for installation of FGD of requisite efficiency of removal of SO_2, if required at a latter stage.</td><td>As per MoEF notification 30.12.2024, extension for completion for FGD works is granted up to 31.12.2027. However NTPC - Simhadri completed installation of FGD in all its units.</td></tr>
<tr><td>09.</td><td>The proponent shall comply with the following;
<table>
<tr><th>Sl. No.</th><th>Solid waste generated from</th><th>Quantity MT/day</th><th>Method of disposal</th></tr>
<tr><td>1.</td><td>Boiler</td><td>7380 TPD</td><td>Ash shall be utilized for laying of roads, increasing of ash and dyke heights and cement and brick manufacturing units</td></tr>
</table></td><td>Being complied. More than 100% utilization for last 9 years.</td></tr>
<tr><td>10.</td><td>Fly ash shall be collected in dry form and its 100% utilization shall be achieved within 9 years as stipulated by MOEF in EC dated. 10.08.07</td><td>Provision is being made for 100 % collection of fly ash in dry form; Stage-II DAES commissioned. Ash Utilization for the Period 2024-25 is 105%</td></tr>
<tr><td>11.</td><td>The following rules and regulations notified MOEF, GOI shall be implemented Hazardous waste (Management and Handling), Rules 1989.</td><td>Being complied.</td></tr>
<tr><td>12.</td><td>As stipulated in the EC dated. 01.08.07, in lieu of the 25 acres of green belt area to be utilized for the project, green belt shall be developed in an area of 10 acres between coal handling plant and cooling tower of stage II. Additionally, afforestation shall be carried out in an area of 75 acres outside the plant premises in consultation with the State Forest Department. Green Belt development shall be started along with the construction activity of the expansion project.</td><td>Simhadri STPP started planting trees right from the approval stage of setting up the station i.e from the year 1998 and will be continued. Around 7,000 nos. of tall growing species of tree plantation have been planted around coal piles to mitigate fugitive dust</td></tr>
</table>

		emission. Extensive plantation and afforestation are being undertaken in all available spaces in and around Simhadri. Till date 6,60,000 No's of Trees are planted in 605 Acres of plantation in and NTPC-Simhadri; In addition, 5,50,000 No's of Plantation under Green Visakha Plantation programme in and around city of Visakhapatnam have been completed after the grant of Environmental Clearance (EC) dated 23.07.1996 and 01.08.2007. To support State Government's Plantation Program in the area "Haritha Haram" plantation of 2,80,000 Lakh trees were planted in Paderu under accelerated afforestation program. In addition to this, annual target of 40,000 tree saplings is being carried through Andhra Pradesh Social forestry division since 2019. Over 25,000 No's of saplings are planted under VANAM MANAM program of Andhra Pradesh Government. After the HUDHUD cyclone, to compensate the greenery loss, NTPC Simhadri had contributed around Rs.50,00,000 by distributing 3,50,000 No's of fruit bearing trees in six mandals of Vishakhapatnam District. In the year 2025-26 40,000 saplings planted through AP Forest Department. It amounts to contribution of

		an afforestation area of about 3285 acres in total.
13.	A water cover shall be maintained in the entire ash pond area to check fugitive emissions.	A water cover/ water sprinkling arrangement is being maintained in the ash disposal area to prevent fly ash from getting air borne during operation of the station. Wind barriers are installed to reduce 30 % of average fugitive dust emission. Sprinkling of water through sprinklers, water tankers in place.
14.	The project shall have a closed cycle cooling system with cooling towers.	A closed cycle cooling system using natural draft cooling towers is being provided for treating cooling water. There are two cooling towers each of 165m height.
15.	The recommendations/commitments made during the Public Hearing held on 9.1.2007 at Zilla Parishad Girls High School, Parawada, Visakhapatnam Distt shall explicitly be followed from pollution control point of view.	Being complied.
16.	The proponent shall submit water balance in KLD indicating quantity of water consumed losses, wastewater generated, treatment, quantity of wastewater recycled/reused and point of final disposal for each purpose/stream in a tabular formal with in 15 days.	The proposed water balance diagram has been incorporated in EIA study report prepared for the project.



NTPC Limited

Simhadri Super Thermal Power Station
Parawada, Anakapalli Dist - 531020

सिम्हाद्रि
SIMHADRI

Consent Order No : APPCB/VSP/12334/HO/CFO/2002- 19/10/2022

Date of issue 19.10.2022
Valid upto 31.08.2027

1. Water details(permitted)		Stage -I	Stage -II
S.No.	Purpose	Quantity in KLD	
1	Industrial Cooling (makeup)-Sea water	216000	213240
2	DM Plant	4320	13200
3	Domestic (including Gardening/Irrigation)	4080	
	Total	224400	226440

2.Waste Water Generation & Mode of treatment

S.No	Outlet description	Max Daily discharge in KLD	Point of disposal
	Stage -I (Unit 1&2)		
1	DM Plant regneration effluent	3400	Reused for ash slurry preparation
2	Boiler blowdown and once through cooling water after treatment	103900	Into Sea
3	Ash Pond Effluent	9600	Reused for ash pumping
4	Domestic	1790	After treatment in STP, onland for plantation /gardening
	Total	118690	
	Stage -II(Unit 3&4)		
1	Filter backwash	240	Recycled to clarified inlet
	CHP effluent	4800	Sedimentation ,treatment & recycled
2	DM Plant regneration waste	240	Neutralisation and disposal through central monitoring basin (CMB) & excess treated effluents to sea
	Cooling tower blowdown	106320	Partial use and disposal through CMB & excess treated effluents to sea
	Boiler blowdown	1080	Disposal through CMB & excess treated effluents to sea
	Ash water blowdown	34320	
3	Clarifier sludge	720	Disposal in ash pond
4	Domestic	2400	Biological treatment and onland for plantation /gardening.
	Total	150120	

3.Emissions from Chimney

Chimney No.	Description of chimney	Quantity of Emissions in m^3/hr at peak flow
1	Attached to 2 x 1, 675 TPH Coal fired boilers (Stage -I:1000 MW)	28,51,560
2	Attached to 2 x 1, 675 TPH Coal fired boilers (Stage -II:1000 MW)	28,99,800

4.Hazardous waste generation

Hazardous waste with recycling option

S.No	Name of the hazardous waste	Stream	Quantity of Hazardous waste	Disposal option
1	Waste /Used oil	5.1 of schedule - I	150 KL/annum	Shall be routed through APEMC to authorized Reprocessors / Recyclers. (As recyclable waste)
2	Fuller Earth / Filter Media material	5.2 of schedule - I	5000 KG/annum	
3	Spent Resin	3.5 of schedule - I	20000 ltrs/annum	Shall be routed through M/s APEMCL to preprocessor / cement indus processing.|As utilizable
4	Oil Soaked Cotton Waste	5.2 of schedule - I	500 ltrs/annum	
5	Insulation Wool	33.2 of schedule - I	150 MT/annum	Shall be routed through APEMC to TSDF, Visakhapatnam. (As landfill waste)

This consent order is valid for power generation with quantities indicated below

S.No	Product	Disposal option
1	Electricity (Coal with maximum sulphur content of 0.6% and ash content of 45%)	2000 MW (Existing: Stage – I(Unit-1&2) - 1000 MW, Existing: Stage – II(Unit-3&4)- 1000 MW)
2	Floating solar power plant	25 MW

NO PARKING
SAFETY Dept

COMPLIANCE STATUS
OF
ENVIRONMENTAL CLEARANCE
Stage-I (2x500 MW)

NTPC Limited
SIMHADRI SUPER THERMAL POWER STATION

ENVIRONMENT MANAGEMENT GROUP
NTPC-SIMHADRI (PO)
PIN: 531 020
Andhra Pradesh

As on 31.03.2026

NTPC-SIMHADRI SUPER THERMAL POWER STATION
ENVIRONMENTAL CLEARANCE
Stage – I (2X500 MW)

S.No.	EC Condition	Status of Implementation
i)	The Consent Order no. 20/PCB/C.Estt./RO-VSP/AEE-VIII/95 dated 13th November, 1995 of Andhra Pradesh Pollution Control Board for establishment of Simhadri Thermal Power Project should be got transferred in favour of NTPC Limited, the executing agency.	The consent orders for establishment of Simhadri TPP has been transferred vide order no. 20/PCB/C.Estt/RO-VSP/AEE-N/96-3828 dtd. 06.09.96 in the name of NTPC Limited by APPCB.
ii)	A bi-flue of height 275 metres with continuous stack monitoring facility should be installed.	Stacks of 150 mt. has been provided at each unit with FGD
iii)	The Electrostatic Precipitators (ESP) having efficiency of not less than 99.8% shall be installed and it should be ensured that particulate emission would not exceed prescribed limit of 150 mg/Nm^3.	Installed high efficiency Electrostatic Precipitators (ESPs) of efficiency 99.93% which are in operation to limit the particulate emission below 100 mg/ Nm^3.
iv)	A closed-circuit cooling device should be provided. The water requirement should be limited to 600 cum/hr from the Yeleru Canal and 9100cum/hr from the sea. The proposed pipeline of 6.0 km. for Seawater intake should conform to the regulation of the Coastal Zone Notification of February 1991.	A closed-circuit type Circulating Cooling Water System using Natural Draft Cooling Towers have been provided. There are two cooling towers each of 165 m height. The water requirement is limited to 600 m^3/hr. from Yeleru canal. The sea water pumps are rated for 9000 m^3/hr and sea water drawl is limited to below 9100 Cum/Hr Make-up water to CW system is drawn from the sea through underground pipelines and are as per the CRZ notification of Feb'1991.
v)	Adequate space should be provided for installation of FGD plant in future for control of sulphur dioxide.	As per the latest notification of MoEF&CC dated 30.12.2024 Simhadri STPP is obligated to complete the FGD work by 31.12.2027. However, NTPC - Simhadri completed installation of FGD in all its units.
vi)	Acquisition of land should be restricted to 2381.00 acres	The land acquired for main plant, including ash disposal area is limited

	including the area of 630 acres for ash disposal.	to 2381 acres. However, an additional land of about 1063 acres was acquired for diversion of a nalla, railway corridors etc.
vii)	Only beneficiated coal to the tune of 14,844 tonnes/day should be used. Fly ash generated to the tune of 33.5 million CUM should be collected in dry form in silos and fully utilized in a phased manner. Presently, plan has been drawn for utilization of 20% ash. A detailed scheme for full utilization should be submitted to the ministry by 31st December 1996. For avoiding contamination of ground water, ash pond should be suitably lined and dyked.	NTPC approached MOEF&CC vide letter dated 16.12.1997 and 16.01.1998 regarding the permission to use raw coal. MOEF&CC vide letter dated 06.02.1998 has given no objection in using the raw coal. Dry Ash Extraction and Collection Systems have been provided for supply of quality ash to entrepreneurs. Initially an ash utilization plan was submitted to MOEF&CC vide letter dated 09.06.1997 and is being revised as per the directions of MOEF&CC. MOEF&CC vide letter dated 20.05.2002 has waived the ash pond lining.
viii)	Noise level should be limited to 85 dB(A) and regular maintenance of equipment be undertaken. For people working in the area of generator halls and other high noise areas, earplugs should be provided.	Individual equipments have been designed with 85 dB (A) noise limits. Regular maintenance of equipment is undertaken to keep noise levels within limits. For people working in of generator halls and other high noise area are provided with appropriate ear protection devices at the site.
ix)	A Rehabilitation Master Plan covering details of the provision made for rehabilitation of 150 families, compensation package, training facilities etc., should be submitted within four months i.e., by November 1996. The plan should specifically indicate the schedule and implementation.	District Collector, Visakhapatnam during a meeting held on 12.10.1998 on R&R opined that, in view of the negotiated compensation, there is no need for a RAP as per R&R policy of NTPC for Simhadri TPP. Accordingly, NTPC vide letter dated 10.12.98 has communicated MoEF&CC the decision of District Collector, Visakhapatnam enclosing the MOM held on 12.10.1998. NTPC has undertaken community development activities in the nearby villages. Facilities like approach road

		to villages, drinking water, school building, hospital etc for the people of the villagers have been undertaken. Rehabilitation & Resettlement facilities are as the directions of District Collector of Vishakhapatnam, by which it is only required that had opined that the Simhadri STPP should engage in CSR activities and that there was no need for RAP as per the R&R policy of the respondent. Accordingly, the respondent herein vide letter dated 10.12.1998 has communicated the decision of District Collector, Visakhapatnam enclosing the Minutes of Meeting (MOM) held on 12.10.1998 to the MOEF&CC. Simhadri STPP has undertaken community development activities in the nearby villages. Approach road to villages, drinking water, school building, hospital and other such CSR activities were undertaken by Simhadri STPP. More than Rs.6.2 Crores was spent in FY 2025-2026 towards the CSR-CD activities. Major CSR-SD Activities by NTPC - Simhadri During 2025-2026 enclosed as **Annexure-I.**
x)	For controlling fugitive dust, regular sprinkling of water in coal handling and other vulnerable areas of the plant should be ensured.	Adequate number of dust suppression, dust extraction systems are provided in coal handling area including coal stockyard area and other dust prone areas for control of fugitive dust emissions. Water sprinklers are installed at dust prone sites to attenuate fugitive dust emission. Conflow dust suppression systems are provided at all transfer points. Simhadri STPP has installed high pressure dust suppression water spray system (Rain guns) in coal yard with mechanical rotators which are working effectively to control the fugitive dust emission from coal yard.

		Simhadri STPP has installed High pressure water spray guns in all the Stage-I coal piles. 11 No's high-pressure rotating mist spray guns are in place each pile in both Stage-I&II. The total 88 no. of high-pressure rotating water spray rain guns are installed for 8 nos of Coal piles in Stage-I &II. In addition, for Dust Suppression, water nozzle spray System is in place for coal handling area including for Track Hopper and Wagon Tipplers Coal Stockyard water spray system is being used which comprises of fine spray nozzles. Adequate number of Dust suppression (DS) and Dust extraction (DE) systems are installed in coal handling area including coal handling area and other dust prone area for control of fugitive dust emissions. Water sprinklers were also installed at dust prone sites to attenuate fugitive dust emission. Dry fog dust suppression system is provided at all transfer points.
xi)	Afforestation should be undertaken covering an area of 292 acres and should be implemented in a phased manner. After care, gap filling and monitoring should be ensured. A norm of 1500-2000 trees per ha should be followed. The afforestation plan may be submitted by November 1996 and the schedule given in it is adhered to strictly.	Simhadri STPP started planting trees right from the approval stage of setting up the station i.e from the year 1998 and will be continued. Around 7,000 nos. of tall growing species of tree plantation have been planted around coal piles to mitigate fugitive dust emission. Extensive plantation and afforestation are being undertaken in all available spaces in and around Simhadri. Till date 6,60,000 No's of Trees are planted in 605 Acres of plantation in and NTPC-Simhadri; In addition, 5,50,000 No's of Plantation under Green Visakha Plantation programme in and around city of Visakhapatnam have been completed after the grant of Environmental Clearance (EC) dated 23.07.1996 and 01.08.2007. To

		support State Government's Plantation Program in the area "Haritha Haram" plantation of 2,80,000 Lakh trees were planted in Paderu under accelerated afforestation program. In addition to this, annual target of 40,000 tree saplings is being carried through Andhra Pradesh Social forestry division since 2019. Over 25,000 No's of saplings are planted under VANAM MANAM program of Andhra Pradesh Government. After the HUDHUD cyclone, to compensate the greenery loss, NTPC Simhadri had contributed around Rs.50,00,000 by distributing 3,50,000 No's of fruit bearing trees in six mandals of Vishakhapatnam District. In the year 2025-26 40,000 saplings planted through AP Forest Department. It amounts to contribution of an afforestation area of about 3285 acres in total.
xii)	Continuous monitoring of ground water should be undertaken by establishing good network of observation wells in consultation with the Central Ground Water Board. Results and data collected should be analysed to ascertain the status of water quality and findings should be submitted for evaluation.	Monitoring of Ground Water in 10 Ground water locations in nearby villages around the plant and ash disposal area is being done regularly and the data is being submitted on monthly basis to regional office, APPCB and to Regional Office of MoEF&CC, Vijayawada on Half-yearly basis. Ground Water Monitoring Report enclosed as **Annexure-II.**
xiii)	All effluents generated in various plant activities should be collected in the Central Effluent Treatment Plant and treated to ensure adherence to specified standards of discharge. The concept of zero discharge should be adapted to a maximum possible extent.	As per specification, all the effluents generated are treated in the treatment plant at the respective point of origin and monitored in EQMS station before letting out through Marine outfall. The DM Plant effluents are treated in Neutralization pits and recycled for Ash disposal. The Debris filter back wash effluents are recycled to the Cooling water Circuit after due filtration.

		Ash decanted water from Ash dykes is recycled to Ash water make up circuit thro' Ash water recirculation System (AWRS) Pre-Treatment Sludges are recycled to Ash water slurry system. Remaining Cooling water blow down after usage for ash water make up and Fugitive dust control is let out through' consented Marine outfall whose effluent parameters are monitored 24X7, real time basis through' EQMS. The concept of zero discharge, though not mandated by MOEF&CC for sea water based power plant, every effort is made to recycle all the plant effluents; The concept of ZLD has been adopted to the maximum possible and all plant effluents are recycled to the plant processes.
xiv)	Keeping in view that 2x520MW Thermal Power Plant by M/s. Hinduja National Power Corporation Ltd. (HNPCL) is proposed in the vicinity of Simhadri project, common facilities for coal transportation, laying of rail line etc. should be worked out in mutual consultation to avoid duplication of the facilities and acquisition of additional area.	NTPC has created facilities for coal transportation by laying of rail line etc., to cater the needs of Simhadri TPP.
xv)	Financial provision of Rs. 301.55 crores should be provided for implementation of environmental mitigative measures with adequate scope for its enhancement, if required, in future	Simhadri STPP has spent Rs.739.30 crores for Stage-I units for environmental mitigation measures as per the Environmental compliance requirement.
xvi)	Regular monitoring for SPM, SO2 and NOx around the power plant may be carried out and records maintained. The data so collected should be properly	The monitoring for SPM, SO2 and NOx is being continued around the power plant and the data is being submitted to Regional MoEF&CC on every six months after analysis. Ambient Air

	analysed and submitted to the Ministry every six months	Quality Monitoring Report enclosed as **Annexure-III.**
xvii)	Full cooperation should be extended to Scientists / Officers from the Regional Office of the Ministry at Bangalore who would be monitoring the compliance of environmental status. Complete set of impact assessment report and the Management Plans should be forwarded to the Regional Office for their use during monitoring.	Full cooperation is being extended to the Scientists and officers of Regional Office of MOEF&CC by site. NOC, EIA report and EMP have been submitted to Regional Office of MOEF&CC, on 07.01.1997.
xviii)	Monitoring Committee should be constituted for reviewing the compliance to various safeguard measures by involving recognized local NGOs, Pollution Control Boards, Institutions, Experts etc.,	A Monitoring Committee has been constituted on 03.11.1999 as per stipulation and subsequently MoEF has been informed vide letter dated 17.11.1999. A Monitoring Committee has been constituted on 03.11.1999 as per requirement and subsequently MoEF&CC has been informed about the same vide letter dated 17.11.1999. The Committee in place conducts meetings regularly to review the Environmental safeguards and compliance measures ensures that necessary actions have been taken up by Simhadri STPP for development of the nearby villages. Committee is regularly meeting to review the Environment safeguards and compliance to measures.

OM No. J-13011/19/94-IA-II(T) dated 6th February 1998.

S.No.	EC Condition	Status of Implementation
1.	Use of coal should not exceed 16,800 tonnes per day for 100% PLF operation. Fly ash should be collected in dry form and should be fully used in a phased manner. Acquisition of land for ash disposal should be restricted to 630 acres.	A facility for collection of dry ash has been provided for the promotion of Ash Utilization. Scheme for full Ash Utilization has been forwarded to MoEF&CC on 09.06.1997. The ash disposal area has been restricted to 630 acres. The issue of lining of ash dyke was

	Presently, plan has been drawn for utilization of only 20% ash. A detailed scheme should be drawn for full utilization and submitted by June, 1998 for avoid contamination of ground water; ash pond should be suitably lined and dyked.	taken up with MoEF&CC. MoEF&CC vide letter dated 20.05.2002 has waived the ash pond lining.

OM No. J-13011/19/94-IA-II (T) dated 20th May 2002.

S.No.	EC Condition	Status of Implementation
3.	Keeping in view the findings of the study report and geo-hydrological conditions in the region, Ministry partially modifies condition no. 2(viii) of the environmental clearance issued for the project vide its letter of even number dated 23rd July, 1996 regarding **lining of ash pond**. The ash disposal area identified for the project need not be lined. However, following mitigation measures should be ensured during operation of the plant.	The condition of ash pond lining has been waived off vide MoEF&CC letter dated 20.05.2002. Monthly monitoring of Ground Water Analysis is being done around the plant and Ash Dyke points as per State Pollution Control Board guidelines. These reports are being submitted to APPCB.
i)	No earth/ clay matter should be removed from the ash dyke hence forth for any activity related to the project.	Noted.
ii)	Leachate collections should be undertaken through Lysimeter at 6-10 locations around the ash dyke and monitoring report should be regularly submitted along with its analysis for ascertaining its change in water quality. For facilitating comparison, continuous monitoring of ground water quality should be immediately initiated to serve as baseline data.	Lysimeter have been installed at 3 locations near ash pond. No leachate is found. Further 08 no's of Piezometers through Andhra University are installed around the Dyke. Piezometer Report enclosed as **Annexure-IV.**
iii)	In the initial period, only fly ash should be discharged in ash dyke due to its grain size being similar	Noted.

	to soil profile.	
iv)	Green belt should be created around the ash dyke for controlling fugitive dust. A detailed proposal indicating area coverage and phased action plan should be submitted within three months.	Land is not available around ash dyke to raise green belt. However, about 13 rows of 6000 tall growing trees planted between ash dykes and villages at a stretch of 2 kms around the dykes. For control of fugitive dust, water cover, deployment of water sprinklers and wind barrier are being maintained on the ash ponds.
4.	NTPC should ensure strict implementation of all other environmental conditions stipulated in the clearance letter and its subsequent amendments.	Noted.

F. NO. J-13012/8/2009-IA.II(T) Dated 11.11.2020

S.No.	EC Condition	Status of Implementation
1.	Details regarding change in source(location of the source, proposed quantity, distance from the power plant and mode of transportation), quality (ash, sulphur, moisture content, calorific value) shall be informed to the ministry and its concerned Regional Office. The quantity of coal transported from each source along with the mode of transportation shall be submitted as a part of EC Compliance report.	NTPC Simhadri sources its coal from Talcher, IB and Singreni mines with Ash percentage ratio between 35%-45%. Sulphur content 0.45% by mass.
2.	The applicable Flue gas emissions standards for Particulate matter, Oxides of Nitrogen and sulphur, Mercury shall be complied in ,line with the ministry notification S.O. 3305(E) dated 07.12.2015 and subsequent emissions. A progress of implementation and its compliance shall be submitted as part of compliance report.	Complied
3.	Ash content in the coal and coal transportation is governed by the	Complied, Coal transportation is done through Railway

	Ministry notification vide S.O. 1561(E) dated 21.05.2020. As far as possible coal transportation should be done by rail/conveyor or other eco friendly modes. However road transportation is allowed on tarpaulin covered Trucks till the railway/conveyor belt infrastructure is made available.	
4.	Details regarding monthly generation, utilization and disposal of fly ash (including bottom ash) shall be submitted to the ministry and its regional Office.	Complied
5.	The 100% Fly ash utilization is to be achieved within 4 years in line with Fly ash notifications dated 14.09.1999, 27.08.2003, 03.11.2009, 25.01.2016 and amended time to time and extant regulation on Fly ash utilization.	Complied.

Annexure-I

Major CSR-SD Activities by NTPC - Simhadri During 2025-2026

S. No.	Activity Name	Place/Village/Panchayat/School Name	Expenditure	HEAD
1	Project Vidya	ASR	7.20	Education
2	Note Book Distribution	Parwadal Mandal Schools	2.75	Education
3	Additional AI Lab Services	Thanam	7.25	Education
4	Specialised Medical Camp	Kalapaka and Tikkavanipale	3.38	Health
5	Tribal Camp	ASR	1.79	Health
6	Blind Skill Development Vision Aid	Vizag	5	Skill
7	CC Drains	Parwada, Tikkavanipalem, Naidupale, Swayambhuwaram, Kalapaka	95	Sanitation
8	Cremation Ground	Dibbapalem and Naidupalem	10	Infra
9	OHT, PWS	Mettapalem, Naidupalem, Dibbapalem, Tikkavanipalem	47.1	Water
10	Command Control centre	Anakapalli	50	Infra
11	CC Roads	Swayambhwaram	10	Roads
12	CIPET Training 3 Batches	Parwada Mandal	68	Skill Development
13	Dhobi Ghat	Parwada Vennealapalem	16	Infra
14	Bags and Bottel Distribution for Ambedkar Jayanti	Parwada Schools	1	Education
15	Yoga Suit for Thanam	Thanam School	1.09	Sports
16	Solar Light	Parwada Village	20	sustainable
17	Solar Grid	ITI Gajjuwaka	20	sustainable
18	Utkarsh Scholarship	Parwada,Mandal	2.23	Education
19	GEM-2025	Parwada Village	55	Education
20	Livelihood Promotion through Turmeric cultivation	Paderu, ASR	13	Skill

21	BEE Competition	AP	19	Education
22	Specialised Medical Camp	Tikkavanipalem and Kalpaka	4.1	Health
23	Tribal Camp	ASR	2.2	Health
24	Eye Screening Camp	Parwada and Vadacheepurupalli, GP	17	Health
25	Distribution of Dustbins	Parwada Villages	7	Sanitation
26	Rural Sports	Parwada Govt. School	8.95	Sports
27	Women Teaching Classes	Naidupalem	2.25	Skill
28	Aids and Appliances	Parwada Mandal	9.25	Health
29	Yoga Coaching	Govt Schools	4	Sports
30	MHU Services	39 Villages	52.8	Health
31	Community Hall	Naidupalem	16	Infra
32	Project Vidya Uniform	Asr Dist	1.85	Education
33	Pulse poli Program	vada Cheepurupalli	0.15	Health
34	Lab Equipment	Islampeta	5.84	Education
35	Bicycle Distribution and Miscellaneous	Parwada Mandal	0.62	Education
36	Animal Health Camp	Vadacheepurupalli	34.62	Health
Total			**621.42**	

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/37 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.97	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.28	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	459	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	283	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.1	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	86.3	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	86.3	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.31	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	127	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	15.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	5.74	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.25	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.02	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	36.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	19.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	48.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.64	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.08	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

Sv Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Ref. No : SV/NTPC-SIM/25-10/38 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.18	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.03	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	627	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	392	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	4.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.1	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	184	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	184	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	147	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	22.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	11.4	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	13.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	47.2	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	29.6	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	53.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.74	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.19	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Sv Enviro Labs & Research Pvt. Ltd. VSP-12

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formerly known as SV ENVIRO LABS & CONSULTANTS
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Ref. No : SV/NTPC-SIM/25-10/39 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 3** (10.70/MONTHLY)

SOURCE OF COLLECTION : SWAYAMBHUVARAM (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.58	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.63	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	576	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	351	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.01	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	207	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	207	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.48	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	112	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	16.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	3.96	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	10.4	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	64.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	38.2	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	41.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.61	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.18	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

Ref. No : SV/NTPC-SIM/25-10/40 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.08	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.95	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	728	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	449	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	5.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	239	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	239	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.71	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	153	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	22.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	9.74	45	No relaxation	APHA, 4500 NO^3–B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.81	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.04	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	91.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	33.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	54.9	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.54	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.10	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/41 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 5** (10.70/MONTHLY)

SOURCE OF COLLECTION : KATRINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.88	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.14	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	421	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	259	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	127	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	127	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.39	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	87.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	12.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	0.35	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.49	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	69.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	28.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	31.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.02	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No : SV/NTPC-SIM/25-10/42 **Dated : 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 6** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	PALAVALASA (BORE WELL)
DATE OF COLLECTION	:	14-10-2025
DATE OF RECEIPT	:	14-10-2025
ANALYSIS STARTING DATE	:	15-10-2025
ANALYSIS COMPLETION DATE	:	18-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.93	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.24	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	916	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	568	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	13.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.02	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	291	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	291	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.58	1.0	1.5	APHA, 4500-FD,

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						24thEd
12	Chloride as Cl	mg/l	197	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	36.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	14.9	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	12.2	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	72.9	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	85.2	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	69.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.37	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.35	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/43 **Dated : 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE** – 7 (10.70/MONTHLY)
SOURCE OF COLLECTION	:	ISLAMPETA (BORE WELL)
DATE OF COLLECTION	:	14-10-2025
DATE OF RECEIPT	:	14-10-2025
ANALYSIS STARTING DATE	:	15-10-2025
ANALYSIS COMPLETION DATE	:	18-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.93	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.28	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	561	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	349	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	227	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	227	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.28	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	93.5	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	11.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	25.1	45	No relaxation	APHA, 4500 NO^3–B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.85	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	49.6	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	22.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	35.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.95	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.16	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/44 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	7.01	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.86	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	602	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	381	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	< 1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	249	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	249	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.25	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	104	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	18.7	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	5.12	45	No relaxation	APHA, 4500 NO^3 B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.9	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	95.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	58.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	29.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.25	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.14	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/45 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 9** (10.70/MONTHLY)

SOURCE OF COLLECTION : SOMINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.99	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.21	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	598	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	379	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	8.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.01	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	221	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	221	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.44	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	118	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	29.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	3.72	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed

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15	Silica as SiO_2	mg/l	10.8	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	49.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	27.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	40.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.73	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.08	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Recognized by GOI - MoEFCC, Accredited by NABL & NABET

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/46 **Dated : 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPL – 10** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	DEEPANJALI NAGAR PUMP HOUSE (BORE WELL)
DATE OF COLLECTION	:	14-10-2025
DATE OF RECEIPT	:	14-10-2025
ANALYSIS STARTING DATE	:	15-10-2025
ANALYSIS COMPLETION DATE	:	18-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.54	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.49	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	296	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	188	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.1	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	129	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	129	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.12	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	43.7	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	8.61	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	5.04	45	No	APHA, 4500 NO^{3-}B & C,

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					relaxation	24th Ed
15	Silica as SiO_2	mg/l	8.96	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	37.9	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	18.4	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	16.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.13	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Deteced	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/37

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.82	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.1	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	510	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	315	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.1	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	104	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	104	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.37	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	141	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	19.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	6.82	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	10.0	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.04	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	38.6	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	20.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	52.4	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.72	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.10	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/38

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.32	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.4	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	720	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	440	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	6.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.1	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	217	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	217	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.36	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	165	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	27.1	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	13.2	45	No relaxation	APHA, 4500 NO^{3-} B & C, 24th Ed
15	Silica as SiO_2	mg/l	15.6	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	50.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	31.2	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	57.4	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.82	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.21	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/39

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 3** (10.70/MONTHLY)

SOURCE OF COLLECTION : SWAYAMBHUVARAM (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.71	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.85	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	624	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	390	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.03	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	229	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	229	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.52	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	128	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	20.1	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	4.58	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	12.6	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	67.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	39.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	45.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.76	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.20	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072
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Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/40

Dated : 02-12-2025

ISSUED TO :

M/s. NTPC LIMITED,
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.19	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.2	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	806	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	484	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	8.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	260	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	260	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.88	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	166	250	1000	APHA, 4500-Cl B, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

13	Sulphate as SO_4	mg/l	25.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	11.2	45	No relaxation	APHA, 4500 NO^{3-} B & C, 24th Ed
15	Silica as SiO_2	mg/l	12.3	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.07	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	94.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	35.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	58.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.16	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.13	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/41

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 5** (10.70/MONTHLY)

SOURCE OF COLLECTION : KATRINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.97	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.21	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	460	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	289	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	149	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	149	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.46	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	95.8	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	16.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	0.43	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	10.2	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	73.5	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	30.4	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	36.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.75	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.11	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/42

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 6** (10.70/MONTHLY)

SOURCE OF COLLECTION : PALAVALASA (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.81	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.37	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	980	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	603	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	10.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.01	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	312	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	312	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.64	1.0	1.5	APHA, 4500-FD,

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						24thEd
12	Chloride as Cl	mg/l	211	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	41.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	16.8	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	15.6	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	75.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	89.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	72.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.45	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.40	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/43

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 7** (10.70/MONTHLY)

SOURCE OF COLLECTION : ISLAMPETA (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.43	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.36	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	595	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	367	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	240	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	240	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.33	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	101	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	13.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	26.8	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.2	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	51.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	24.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	38.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.04	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.19	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/44

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	7.25	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.0	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	682	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	433	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	< 1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	281	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	281	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	126	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	23.4	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	658	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	13.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	98.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	60.6	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	32.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	4.79	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.18	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/45

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 9** (10.70/MONTHLY)

SOURCE OF COLLECTION : SOMINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.11	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.25	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	650	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	414	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	10.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.02	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	251	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	251	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.52	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	130	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	34.8	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	4.66	45	No relaxation	APHA, 4500 NO_3^- B & C, 24th Ed

15	Silica as SiO_2	mg/l	12.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	51.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	29.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	44.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.58	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.11	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/37 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.53	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.91	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	658	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	409	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	153	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	153	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.58	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	179	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	14.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	4.96	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	12.4	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	57.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	31.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	68.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.41	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.07	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/38 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.79	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.63	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	471	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	298	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	129	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	129	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.21	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	109	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	18.4	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	15.8	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.10	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	39.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	20.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	40.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.51	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.11	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/39 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 3** (10.70/MONTHLY)

SOURCE OF COLLECTION : SWAYAMBHUVARAM (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.51	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.69	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	705	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	429	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.01	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	189	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	189	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.74	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	151	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	26.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	6.10	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	14.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	92.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	57.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	59.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.97	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.30	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/40 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.91	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.52	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	449	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	287	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	2.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	135	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	135	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.16	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	93.8	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	16.2	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	8.79	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	10.4	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.05	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	63.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	21.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	34.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.93	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No : SV/NTPC-SIM/25-12/41 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 5** (10.70/MONTHLY)

SOURCE OF COLLECTION : KATRINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.93	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.72	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	621	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	382	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	3.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	207	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	207	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.74	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	112	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	23.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	1.29	45	No relaxation	APHA, 4500 NO^3–B & C, 24th Ed
15	Silica as SiO_2	mg/l	13.4	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	102	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	57.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	41.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.15	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.22	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/42 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 6** (10.70/MONTHLY)

SOURCE OF COLLECTION : PALAVALASA (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.39	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.48	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	823	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	497	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	6.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.03	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	253	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	253	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.84	1.0	1.5	APHA, 4500-FD,

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						24thEd
12	Chloride as Cl	mg/l	184	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	29.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	11.5	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.20	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	49.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	63.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	65.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.19	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.24	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Enviro Labs & Research Pvt. Ltd. VSP-12 SV

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Ref. No : SV/NTPC-SIM/25-12/43 **Dated : 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 7** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	ISLAMPETA (BORE WELL)
DATE OF COLLECTION	:	15-12-2025
DATE OF RECEIPT	:	15-12-2025
ANALYSIS STARTING DATE	:	16-12-2025
ANALYSIS COMPLETION DATE	:	20-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.18	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.93	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	816	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	483	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	293	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	293	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.48	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	165	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	9.41	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	30.2	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	14.6	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	29.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	16.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	62.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.53	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.30	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Ref. No : SV/NTPC-SIM/25-12/44 **Dated : 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE- 8** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	DEVADA (BORE WELL)
DATE OF COLLECTION	:	15-12-2025
DATE OF RECEIPT	:	15-12-2025
ANALYSIS STARTING DATE	:	16-12-2025
ANALYSIS COMPLETION DATE	:	20-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	6.98	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.42	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	563	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	349	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	< 1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	193	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	193	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.18	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	87.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	15.1	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	43.7	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.91	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	72.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	46.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	28.9	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.02	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.14	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No : SV/NTPC-SIM/25-12/45 **Dated : 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 9** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	SOMINAYUDUPALEM (BORE WELL)
DATE OF COLLECTION	:	15-12-2025
DATE OF RECEIPT	:	15-12-2025
ANALYSIS STARTING DATE	:	16-12-2025
ANALYSIS COMPLETION DATE	:	20-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.81	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.63	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	427	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	261	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	13.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	96.7	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	96.7	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	105	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	21.8	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	2.97	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed

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15	Silica as SiO_2	mg/l	8.96	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	29.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	15.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	38.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.07	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.08	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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Ref. No : SV/NTPC-SIM/25-12/46 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPL – 10** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEEPANJALI NAGAR PUMP HOUSE (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.21	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.18	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	297	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	191	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	107	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	107	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.09	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	39.2	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	16.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	9.14	45	No	APHA, 4500 NO^{3-}B & C,

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					relaxation	24th Ed
15	Silica as SiO_2	mg/l	11.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	53.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	22.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	14.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.08	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.15	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Deteced	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/37 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.83	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.04	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	712	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	433	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	2.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	196	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	196	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.72	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	157	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	23.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	9.71	45	No relaxation	APHA, 4500 NO^{3-} B & C, 24th Ed
15	Silica as SiO_2	mg/l	14.3	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	96.2	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	42.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	56.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.29	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.05	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/38 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.96	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.48	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	896	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	491	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	161	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	161	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.53	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	209	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	36.1	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	29.4	45	No relaxation	APHA, 4500 NO^{3-} B & C, 24th Ed
15	Silica as SiO_2	mg/l	10.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	63.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	25.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	72.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.28	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.05	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/39 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 3** (10.70/MONTHLY)

SOURCE OF COLLECTION : SWAYAMBHUVARAM (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.15	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.86	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	877	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	536	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.07	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	227	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	227	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.44	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	198	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	43.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	9.52	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.8	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	112	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	49.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	69.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.53	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.24	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

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Ref. No : SV/NTPC-SIM/26-01/40 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.30	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.24	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	407	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	256	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	109	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	109	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.10	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	82.7	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	24.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	13.2	45	No relaxation	APHA, 4500 NO^3 B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.71	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.02	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	49.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	13.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	29.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.08	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.05	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/41 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 5** (10.70/MONTHLY)

SOURCE OF COLLECTION : KATRINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specification		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.98	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.34	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	821	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	498	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	5.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	249	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	249	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.41	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	156	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	30.4	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	2.71	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	14.6	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	151	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	72.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	58.4	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.93	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.32	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/42 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 6** (10.70/MONTHLY)

SOURCE OF COLLECTION : PALAVALASA (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.94	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.12	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	1149	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	712	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	11.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.05	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	302	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	302	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.98	1.0	1.5	APHA, 4500-FD,

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						24thEd
12	Chloride as Cl	mg/l	259	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	47.2	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	29.6	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	12.5	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	94.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	116	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	102	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.58	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.36	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/43

Dated : 06-02-2026

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 7** (10.70/MONTHLY)

SOURCE OF COLLECTION : ISLAMPETA (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.90	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.26	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	573	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	359	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	186	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	186	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.35	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	124	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	7.19	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	24.9	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.70	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	48.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	19.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	45.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.14	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.21	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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Ref. No : SV/NTPC-SIM/26-01/44 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	7.17	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.83	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	785	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	491	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	< 1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	236	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	236	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.31	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	119	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	23.7	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	61.9	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	112	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	69.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	47.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.54	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/45 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 9** (10.70/MONTHLY)

SOURCE OF COLLECTION : SOMINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	8.03	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.49	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	510	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	315	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	5.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	144	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	144	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.53	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	114	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	16.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	5.81	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed

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15	Silica as SiO_2	mg/l	13.1	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	54.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	22.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	42.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.86	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.06	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/46 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPL – 10** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEEPANJALI NAGAR PUMP HOUSE (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.88	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.61	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	488	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	307	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	203	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	203	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.46	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	71.5	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	21.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	15.8	45	No	APHA, 4500 NO^{3-}B & C,

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					relaxation	24th Ed
15	Silica as SiO_2	mg/l	8.93	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	68.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	29.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	25.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.13	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.21	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Deteced	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/37 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.28	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.63	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	529	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	316	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	139	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	139	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.47	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	114	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	16.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	6.98	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.5	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	63.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	27.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	43.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.18	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.07	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/38 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.91	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.93	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	634	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	378	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	109	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	109	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.34	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	157	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	22.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	18.7	45	No relaxation	APHA, 4500 NO^3 B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.10	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	48.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	16.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	59.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.19	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.03	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/39 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 3** (10.70/MONTHLY)

SOURCE OF COLLECTION : SWAYAMBHUVARAM (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.88	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.29	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	841	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	496	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.05	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	174	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	174	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.28	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	205	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	32.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	7.96	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	13.2	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	96.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	38.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	69.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.53	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.24	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/40 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.97	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.16	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	319	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	187	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	72.4	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	72.4	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.07	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	69.4	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	13.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	8.12	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.86	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	28.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	9.74	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	26.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.84	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.03	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/41 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 5** (10.70/MONTHLY)

SOURCE OF COLLECTION : KATRINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.72	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.49	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	692	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	397	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	2.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	198	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	198	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.22	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	119	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	23.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	4.15	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.9	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	127	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	54.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	43.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.24	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.23	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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AUTHORIZED SIGNATORY

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Ref. No : SV/NTPC-SIM/26-02/42 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 6** (10.70/MONTHLY)

SOURCE OF COLLECTION : PALAVALASA (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.11	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.96	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	914	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	539	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	4.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.02	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	218	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	218	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.49	1.0	1.5	APHA, 4500-FD,

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						24thEd
12	Chloride as Cl	mg/l	198	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	42.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	21.8	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.72	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	73.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	91.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	68.3	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.97	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.25	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/43 **Dated : 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 7** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	ISLAMPETA (BORE WELL)
DATE OF COLLECTION	:	16-02-2026
DATE OF RECEIPT	:	17-02-2026
ANALYSIS STARTING DATE	:	17-02-2026
ANALYSIS COMPLETION DATE	:	21-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.85	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.09	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	504	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	296	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	147	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	147	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.22	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	109	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	5.14	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	16.3	45	No relaxation	APHA, 4500 NO^3 B & C, 24th Ed
15	Silica as SiO_2	mg/l	7.81	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	32.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	11.4	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	38.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.97	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.14	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Ref. No : SV/NTPC-SIM/26-02/44 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	7.59	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.06	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	812	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	477	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	2.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	253	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	253	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.42	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	135	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	18.7	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	47.2	45	No relaxation	APHA, 4500 NO^{3-} B & C, 24th Ed
15	Silica as SiO_2	mg/l	13.9	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	86.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	42.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	51.9	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.14	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.06	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/45 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 9** (10.70/MONTHLY)

SOURCE OF COLLECTION : SOMINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.94	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.12	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	427	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	258	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	116	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	116	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.39	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	92.7	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	11.4	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	3.97	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed

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15	Silica as SiO_2	mg/l	10.8	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	38.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	13.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	34.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.04	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.03	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/46 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPL – 10** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEEPANJALI NAGAR PUMP HOUSE (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.22	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.29	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	503	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	296	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	188	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	188	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	87.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	19.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	11.4	45	No	APHA, 4500 NO^{3-}B & C,

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					relaxation	24th Ed
15	Silica as SiO_2	mg/l	7.15	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	47.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	18.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	21.9	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.08	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.13	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Deteced	-	-	IS - 1622

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AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/37 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.71	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.98	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	427	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	263	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	116	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	116	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	98.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	11.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	4.81	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.50	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	47.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	18.6	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	37.3	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.10	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/38 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specification		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.52	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.48	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	491	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	297	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	96.2	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	96.2	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.22	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	127	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	17.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	14.3	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.60	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	39.6	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	11.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	47.3	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.14	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.05	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/39 **Dated : 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 3** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	SWAYAMBHUVARAM (BORE WELL)
DATE OF COLLECTION	:	16-03-2026
DATE OF RECEIPT	:	16-03-2026
ANALYSIS STARTING DATE	:	17-03-2026
ANALYSIS COMPLETION DATE	:	20-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.63	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.58	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	657	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	394	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.03	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	126	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	126	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.20	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	174	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	25.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	11.7	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.70	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	58.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	26.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	59.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.38	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.16	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/40 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.09	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.28	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	415	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	254	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	88.3	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	88.3	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.12	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	98.7	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	16.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	11.7	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.41	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	42.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	15.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	38.4	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.50	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.02	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Sv Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/41 **Dated : 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 5** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	KATRINAYUDUPALEM (BORE WELL)
DATE OF COLLECTION	:	16-03-2026
DATE OF RECEIPT	:	16-03-2026
ANALYSIS STARTING DATE	:	17-03-2026
ANALYSIS COMPLETION DATE	:	20-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.28	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.29	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	537	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	319	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	147	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	147	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.15	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	106	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	18.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	2.71	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.86	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	91.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	36.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	39.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.71	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/42 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 6** (10.70/MONTHLY)

SOURCE OF COLLECTION : PALAVALASA (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.63	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.38	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	637	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	381	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.01	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	163	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	163	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.28	1.0	1.5	APHA, 4500-FD,

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						24th Ed
12	Chloride as Cl	mg/l	134	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	28.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	15.3	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.72	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	51.9	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	70.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	48.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.82	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.19	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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Ref. No : SV/NTPC-SIM/26-03/43 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 7** (10.70/MONTHLY)

SOURCE OF COLLECTION : ISLAMPETA (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.58	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.72	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	393	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	228	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	112	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	112	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.16	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	87.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	3.81	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	13.7	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	6.71	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	23.9	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	8.12	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	29.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.62	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.05	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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AUTHORIZED SIGNATORY

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Ref. No : SV/NTPC-SIM/26-03/44 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	7.21	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.88	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	597	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	361	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	4.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	198	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	198	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	105	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	13.8	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	32.7	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.4	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	63.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	38.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	34.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.61	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.04	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Ref. No : SV/NTPC-SIM/26-03/45 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 9 (10.70/MONTHLY)**

SOURCE OF COLLECTION : SOMINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.15	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.97	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	318	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	194	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	97.3	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	97.3	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.24	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	69.7	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	8.50	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	2.81	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed

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15	Silica as SiO_2	mg/l	8.71	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	27.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	9.52	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	26.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.53	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.02	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Ref. No : SV/NTPC-SIM/26-03/46 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPL – 10** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEEPANJALI NAGAR PUMP HOUSE (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.90	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.16	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	359	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	217	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	139	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	139	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.15	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	58.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	12.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	9.32	45	No	APHA, 4500 NO^{3-}B & C,

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					relaxation	24th Ed
15	Silica as SiO_2	mg/l	5.82	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	35.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	11.2	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	23.3	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.05	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.02	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Deteced	-	-	IS - 1622

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Sv Enviro Labs & Research Pvt. Ltd. VSP-1.2

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-10/01 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DEVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	06-10-2025 (10:40) Hr	07-10-2025 (10:40) Hr	43.5	15.9	11.4	10.1
2	21-10-2025 (10:10) Hr	22-10-2025 (10:10) Hr	49.1	27.6	13.7	11.9
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-10/02 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**RAVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	09-10-2025 (10:00) Hr	10-10-2025 (10:00) Hr	50.4	16.7	10.9	9.10
2	25-10-2025 (10:30) Hr	26-10-2025 (10:30) Hr	53.7	18.1	12.6	11.3
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No: SV/NTPC-SIM/25-10/03 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**PITTAVANIPALEM VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	08-10-2025 (10:25) Hr	09-10-2025 (10:25) Hr	41.9	13.5	11.2	9.58
2	24-10-2025 (09:55) Hr	25-10-2025 (09:55) Hr	45.2	15.8	14.6	12.9
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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AUTHORIZED SIGNATORY

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-10/04 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DASARIPETA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	07-10-2025 (10:15) Hr	08-10-2025 (10:15) Hr	52.7	19.3	14.1	13.7
2	23-10-2025 (10:50) Hr	24-10-2025 (10:50) Hr	44.3	16.5	12.6	10.1
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-10/05 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
DATE OF COLLECTION& TIME	:	15-10-2025 @ 10:05 hr
END DATE OF SAMPLING &TIME	:	16-10-2025 @ 10:05 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**KALAPAKA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	47.9	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	16.3	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	11.8	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	9.50	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.21	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.4	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/25-10/06 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
DATE OF COLLECTION & TIME	:	17-10-2025 @ 09:45 hr
END DATE OF SAMPLING & TIME	:	18-10-2025 @ 09:45 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**R & D Buildings**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	58.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	21.9	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.1	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	16.5	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.30	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	11.4	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/25-10/07 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
DATE OF COLLECTION& TIME	:	16-10-2025 @ 09:50 hr
END DATE OF SAMPLING &TIME	:	17-10-2025 @ 09:50 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**BBPS Deepanjali Nagar**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	49.6	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	18.1	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	10.5	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	12.9	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.24	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	9.20	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/25-11/01

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **DEVADA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	06-11-2025 (10:00) Hr	07-11-2025 (10:00) Hr	46.3	17.5	12.8	11.4
2	21-11-2025 (10:35) Hr	22-11-2025 (10:35) Hr	52.6	29.1	14.5	12.8
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-11/02

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **RAVADA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	10-11-2025 (09:40) Hr	11-11-2025 (09:40) Hr	54.7	18.9	11.5	10.3
2	25-11-2025 (10:10) Hr	26-11-2025 (10:10) Hr	57.9	21.5	13.2	12.8
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-11/03

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **PITTAVANIPALEM VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	08-11-2025 (10:05) Hr	09-11-2025 (10:05) Hr	45.8	15.2	12.7	10.8
2	24-11-2025 (10:50) Hr	25-11-2025 (10:50) Hr	49.6	18.1	15.9	13.4
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-11/04

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **DASARIPETA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	07-11-2025 (10:20) Hr	08-11-2025 (10:20) Hr	55.3	21.2	15.7	14.9
2	22-11-2025 (10:10) Hr	23-11-2025 (10:10) Hr	48.7	19.1	13.4	11.6
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-11/05

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

DATE OF COLLECTION& TIME : 15-11-2025 @ 10:45 hr

END DATE OF SAMPLING &TIME : 16-11-2025 @ 10:45 hr

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3

DURATION OF SAMPLING : 24 HRS

LOCATION : **KALAPAKA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	51.5	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	18.7	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	12.9	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	10.6	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.25	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	11.2	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-11/06

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

DATE OF COLLECTION & TIME : 13-11-2025 @ 10:00 hr

END DATE OF SAMPLING & TIME : 14-11-2025 @ 10:00 hr

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3

DURATION OF SAMPLING : 24 HRS

LOCATION : **R & D Buildings**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	62.7	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	23.5	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	15.3	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	17.8	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.34	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	12.2	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-11/07

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

DATE OF COLLECTION& TIME : 14-11-2025 @ 10:55 hr

END DATE OF SAMPLING &TIME : 15-11-2025 @ 10:55 hr

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3

DURATION OF SAMPLING : 24 HRS

LOCATION : **BBPS Deepanjali Nagar**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	52.8	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	20.6	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	11.3	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	13.7	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.28	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.5	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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AUTHORIZED SIGNATORY

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-12/01 **Dated: 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : DECEMBER'2025

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **DEVADA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	06-12-2025 (10:50) Hr	07-12-2025 (10:50) Hr	40.7	15.9	14.6	12.9
2	20-12-2025 (10:00) Hr	21-12-2025 (10:00) Hr	49.2	18.1	16.8	13.5
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-12/02 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**RAVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	10-12-2025 (09:55) Hr	11-12-2025 (09:55) Hr	50.3	16.7	13.4	11.8
2	24-12-2025 (10:35) Hr	25-12-2025 (10:35) Hr	53.8	19.4	15.1	14.4
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-12/03 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**PITTAVANIPALEM VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	09-12-2025 (10:20) Hr	10-12-2025 (10:20) Hr	56.3	18.5	14.1	12.9
2	23-12-2025 (10:05) Hr	22-12-2025 (10:05) Hr	52.7	15.9	12.7	10.5
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-12/04 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DASARIPETA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	08-12-2025 (10:40) Hr	09-12-2025 (10:40) Hr	60.1	23.8	13.5	11.9
2	22-12-2025 (09:50) Hr	23-12-2025 (09:50) Hr	55.7	20.4	11.3	9.10
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-12/05 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
DATE OF COLLECTION& TIME	:	26-12-2025 @ 09:50 hr
END DATE OF SAMPLING &TIME	:	27-12-2025 @ 09:50 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**KALAPAKA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	46.9	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	15.3	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.1	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	12.9	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.20	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.4	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/25-12/06 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
DATE OF COLLECTION & TIME	:	27-12-2025 @ 10:25 hr
END DATE OF SAMPLING & TIME	:	28-12-2025 @ 10:25 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**R & D Buildings**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	66.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	27.9	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.1	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	15.7	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.29	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	13.1	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/25-12/07 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
DATE OF COLLECTION& TIME	:	29-12-2025 @ 10:15 hr
END DATE OF SAMPLING &TIME	:	30-15-2025 @ 10:15 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**BBPS Deepanjali Nagar**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	58.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	22.7	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	13.5	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	15.1	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.36	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	12.8	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-01/01 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DEVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	06-01-2026 (10:10) Hr	07-01-2026 (10:10) Hr	47.2	18.5	12.8	10.3
2	21-01-2026 (10:45) Hr	22-01-2026 (10:45) Hr	53.8	20.7	15.1	12.5
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-01/02 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**RAVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	09-01-2026 (09:40) Hr	10-01-2026 (09:40) Hr	54.3	18.6	15.3	12.7
2	24-01-2026 (10:15) Hr	25-01-2026 (10:15) Hr	49.7	16.5	13.8	11.4
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-01/03 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**PITTAVANIPALEM VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	08-01-2026 (10:50) Hr	09-01-2026 (10:50) Hr	51.9	14.7	11.4	9.10
2	23-01-2026 (10:20) Hr	24-01-2026 (10:20) Hr	47.2	12.9	10.7	8.50
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-01/04 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DASARIPETA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	07-01-2026 (10:30) Hr	08-01-2026 (10:30) Hr	55.9	19.6	14.7	12.5
2	22-01-2026 (09:30) Hr	23-01-2026 (09:30) Hr	46.7	13.9	10.8	8.90
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-01/05 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
DATE OF COLLECTION& TIME	:	27-01-2026 @ 10:05 hr
END DATE OF SAMPLING &TIME	:	28-01-2026 @ 10:05 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**KALAPAKA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	54.7	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	17.3	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	12.8	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	10.4	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.30	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	9.10	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/26-01/06 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
DATE OF COLLECTION & TIME	:	29-01-2026 @ 10:40 hr
END DATE OF SAMPLING & TIME	:	30-01-2026 @ 10:40 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**R & D Buildings**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	60.9	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	21.6	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	15.4	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	18.1	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.40	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	11.9	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-01/07 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
DATE OF COLLECTION& TIME	:	28-01-2026 @ 10:25 hr
END DATE OF SAMPLING &TIME	:	29-01-2026 @ 10:25 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**BBPS Deepanjali Nagar**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	55.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	18.7	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	11.9	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	13.4	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.30	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.2	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-02/01 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DEVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	07-03-2026 (10:00) Hr	07-02-2026 (10:00) Hr	51.8	20.4	14.9	12.1
2	23-02-2026 (10:25) Hr	24-02-2026 (10:25) Hr	46.3	17.1	13.6	11.5
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-02/02 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**RAVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	10-02-2026 (09:55) Hr	11-02-2026 (09:55) Hr	49.3	16.7	13.9	11.4
2	26-02-2026 (10:40) Hr	27-02-2026 (10:40) Hr	46.5	14.2	11.7	9.50
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-02/03 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**PITTAVANIPALEM VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	09-02-2026 (10:10) Hr	10-02-2026 (10:10) Hr	44.9	12.6	10.4	8.80
2	25-02-2026 (10:00) Hr	26-02-2026 (10:00) Hr	50.3	15.1	13.8	10.9
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-02/04 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DASARIPETA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	07-02-2026 (10:05) Hr	08-02-2026 (10:05) Hr	48.1	16.9	12.1	10.9
2	24-02-2026 (09:45) Hr	25-02-2026 (09:45) Hr	45.7	12.4	9.60	7.20
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-02/05 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
DATE OF COLLECTION& TIME	:	17-02-2026 @ 09:30 hr
END DATE OF SAMPLING &TIME	:	18-02-2026 @ 09:30 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**KALAPAKA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	50.9	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	16.1	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	10.7	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	8.60	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.21	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	8.25	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-02/06 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
DATE OF COLLECTION & TIME	:	18-02-2026 @ 11:00 hr
END DATE OF SAMPLING & TIME	:	19-02-2026 @ 11:00 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**R & D Buildings**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	54.7	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	18.3	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	12.9	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	15.1	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.32	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.1	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-02/07 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
DATE OF COLLECTION& TIME	:	21-02-2026 @ 09:55 hr
END DATE OF SAMPLING &TIME	:	22-02-2026 @ 09:55 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**BBPS Deepanjali Nagar**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	49.2	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	15.7	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	13.6	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	15.1	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.25	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	8.70	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-03/01 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DEVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	06-03-2026 (10:20) Hr	07-03-2026 (10:20) Hr	57.3	24.9	16.1	14.7
2	21-03-2026 (10:40) Hr	22-03-2026 (10:40) Hr	52.9	20.7	15.4	13.5
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-03/02 **Dated: 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : MARCH'2026

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **RAVADA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	10-03-2026 (10:10) Hr	11-03-2026 (10:10) Hr	45.1	15.9	11.6	9.70
2	25-03-2026 (10:00) Hr	26-03-2026 (10:00) Hr	50.8	17.3	13.2	11.7
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No: SV/NTPC-SIM/26-03/03 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**PITTAVANIPALEM VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	09-03-2026 (10:00) Hr	10-03-2026 (10:00) Hr	60.3	18.7	13.9	11.6
2	24-03-2026 (10:45) Hr	25-03-2026 (10:45) Hr	57.9	16.2	15.4	12.9
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-03/04 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DASARIPETA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	07-03-2026 (09:40) Hr	08-03-2026 (09:40) Hr	53.8	18.1	14.9	12.6
2	23-03-2026 (10:20) Hr	24-03-2026 (10:20) Hr	49.3	15.7	11.5	9.80
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-03/05 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
DATE OF COLLECTION& TIME	:	14-03-2026 @ 10:05 hr
END DATE OF SAMPLING &TIME	:	15-03-2026 @ 10:05 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**KALAPAKA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	46.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	15.9	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	12.6	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	10.3	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.30	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	9.70	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-03/06 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
DATE OF COLLECTION & TIME	:	16-03-2026 @ 10:00 hr
END DATE OF SAMPLING & TIME	:	17-03-2026 @ 10:00 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**R & D Buildings**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	60.9	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	21.7	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.4	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	16.2	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.39	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	12.7	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/26-03/07 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
DATE OF COLLECTION& TIME	:	17-03-2026 @ 10:35 hr
END DATE OF SAMPLING &TIME	:	18-03-2026 @ 10:35 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**BBPS Deepanjali Nagar**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	58.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	19.1	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	16.7	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	18.4	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.40	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.3	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Final Report

IDENTIFICATION AND INSTALLATION OF PEIZOMETERS AROUND ASH POND AND GROUNDWATER QUALITY MONITORING

Sponsor:

M/s. NTPC Ltd., Simhadri, Visakhapatnam, Andhra Pradesh

Submitted by:

Centre for Scientific and Industrial Consultancy

Andhra University, Visakhapatnam, Andhra Pradesh

May 2025

Identification And Installation of Peizometers Around Ash Pond and Groundwater Quality Monitoring

Introduction:

Simhadri Super Thermal Power Plant is a coal-fired power plant located in the outskirts of Visakhapatnam city in the Indian state of Andhra Pradesh. The power plant is one of the coal fired power plants of NTPC, a Government of India enterprise. The coal for the power plant is sourced from Kalinga Block of Talcher Coal fields in Odisha. The plant is a national asset, and power generated is shared between multiple states, as the operator is national. Power generated by units 1 and 2, making up for 1,000 MW, is dedicated to power distribution companies owned by the Government of Andhra Pradesh and Telangana. The remaining 1,000 MW, generated by units 3 and 4, is allocated to the states of Odisha, Tamil Nadu, Karnataka, Andhra Pradesh, Telangana and Puducherry as per their shares as decided in PPA.

NTPC Simhadri is a modern coal-fired power plant, and is a combination of four independent generation units, with common water and fuel sources, and common ash ponds. Each of the four units has a nameplate capacity of 500 MW. Units 1 and 2 were built in the first phase of development, and were commissioned in February 2002 and August 2004, respectively, to meet urgent needs of power in the largely agrarian Coastal Andhra and North-Coastal Andhra regions. Units 3 and 4 were built in the second phase, and commissioned in March 2011 and March 2012, respectively. Since the operator of this plant is a Government of India enterprise, and since the plant was built with central government funds, power generated by units 3 and 4 are sold to distribution companies based in neighbouring states of Odisha, Tamil Nadu, and Karnataka, over the National Grid, as power stocks. The allocations are decided between NTPC and the three states' discoms. Unsold units are offered to discoms of Andhra Pradesh for purchase at market prices.

Coal for NTPC Simhadri is sourced from Talcher Coal Fields, Odisha, and transported by East Coast Railway (ECoR), over the Kolkata-Chennai trunk line, with a

spur heading towards the plant at Duvvada. Unlike other coal-fired plants located in the Indian hinterlands, which use water of the same kind as working fluid and coolant, NTPC Simhadri, which operates out of a fresh water-deficient region of Andhra Pradesh, diversified its water sourcing, based on usage. It uses fresh water sourced from the Yeluru Canal as working fluid (steam which turns the turbines). For cooling, however, the plant uses seawater pumped in from the Bay of Bengal. Seawater, with its salt content, is unfit to be used as working fluid, without desalination.

Committed to producing Green Power, the Simhadri Super Thermal Power Station (2X500 MW in Stage-I & 2X500 MW in Stage-II) is the first coastal coal fired thermal power station of NTPC Limited. Simhadri Plant meets more than 85% of its water needs from sea, thereby contributing to the nation's efforts in conserving fresh water. Having spent nearly Rs. 1000 Cr towards various equipments and systems for mitigating pollution and protecting environment, NTPC Simhadri planted over 7.0 lakh trees for protection of environment. Besides, NTPC Simhadri is also a proud partner of "Green Visakha" Project and has planted 3.5 lakh trees additionally under this program and distributed 1.25 lakh fruit bearing plants. NTPC also contributed Rs. 6.0 Cr towards conservation of Olive Ridley turtles. Furthermore, the Power Station and Township premises are declared as plastic free zones. The Journey continues for adopting the latest environment norms leading to a World Class Power Plant.

NTPC has four piezometers around the ash pond. NTPC has approached Andhra University, Visakhapatnam to install 4 more piezometers and water level indicators in new and old piezometers. Andhra University has taken up this study with the following objectives and scope of work:

Objectives:

- Identification and installation of new piezometers around ash pond
- Groundwater quality monitoring of new and old peizometers

Scope of work and Methodology:

- Selection of suitable location and installation of additional 06 peizometers in the upstream and downstream of ash dyke
- Installation of new digital water level meters in the existing and new piezometers
- Groundwater quality monitoring in all the piezometers

Study Area:

The study area is the buffer of radius 3 km around the ash pond of NTPC Simhadri. NTPC already has 4 peizometers around the ash pond. The study area is presented in Figure 1 and the google image is shown in Figure 2.

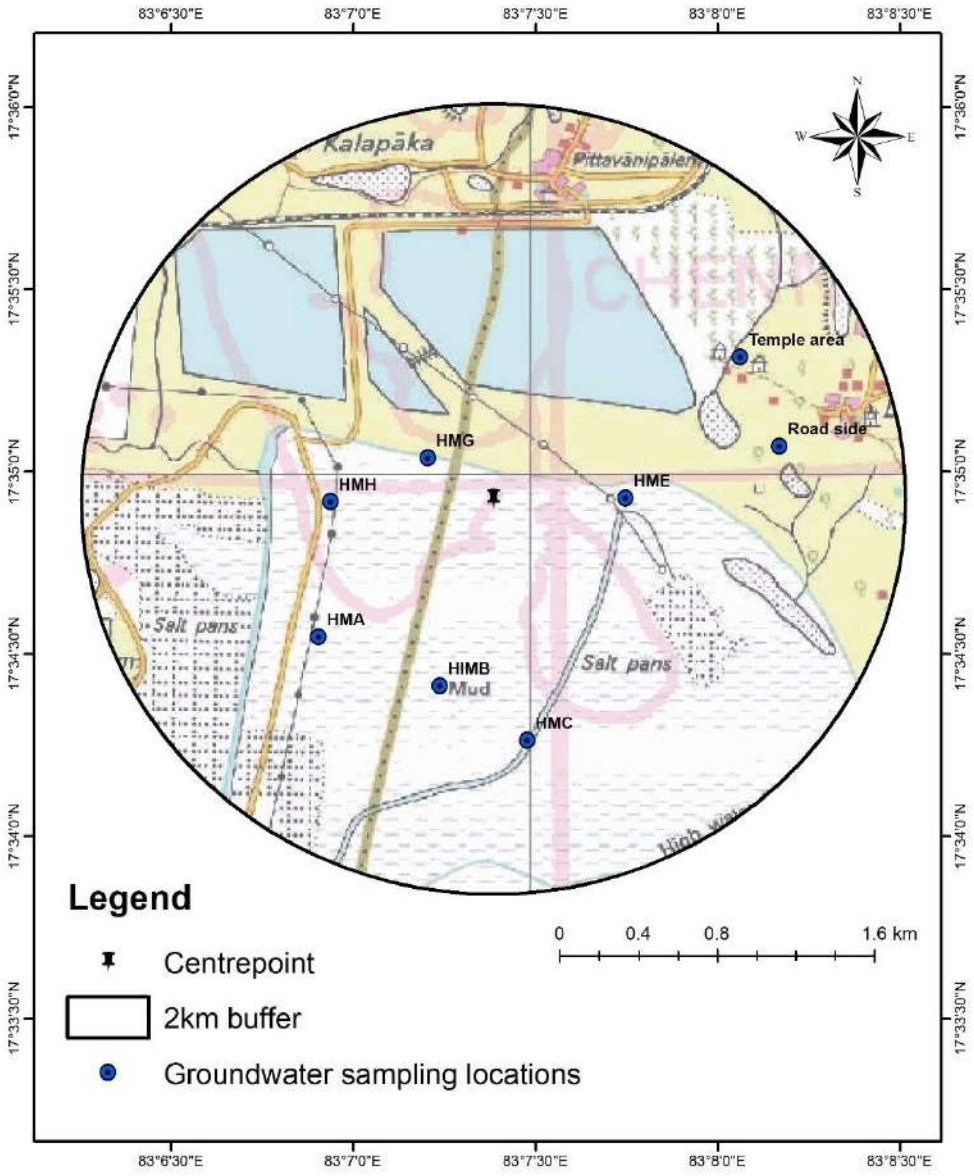


Figure 1 Study area of interest



Figure 2 Google image of the study area

The details of the groundwater sampling locations are shown in Table 1. There are 8 peizometer locations and the location of each piezometer is shown in the table. The depth of the piezometer varies from 2.4 to 14.9 m and 2.1 to 14.1 m during December 2024 and January 2025 respectively. The groundwater quality was monitored at eight locations during December 2024 and April 2025. The locations are near road side, near temple area, near HME, near HMG, near HMH, near HMA, near HIMB and near HMC. The depth of the wells is shown in Figure 3.

Table 1 Details of the groundwater sampling locations

S.No.	Name of the location	GPS co-ordinates	Depth in m		Sample Source
			Dec 2024	April 2025	
1.	Near road side	17°35'4.08" N 83° 8'10.18" E	14.9	14.1	Bore well
2.	Near temple area	17°35'18.79" N 83° 8'3.71" E	3.6	3.9	Bore well
3.	Near HME	17°34'55.55" N 83° 7'44.87" E	6.7	7.0	Bore well
4.	Near HMG	17°35'2.19" N 83° 7'12.30" E	5.4	4.3	Bore well
5.	Near HMH	17°34'54.96" N 83° 6'56.29" E	7.8	6.9	Bore well
6.	Near HMA	17°34'32.76" N 83° 6'54.37" E	2.4	2.1	Bore well
7.	Near HIMB	17°34'24.63" N 83° 7'14.32" E	8.2	8.1	Bore well
8.	Near HMC	17°34'15.73" N 83° 7'28.72" E	6.4	6.8	Bore well

The results of the water quality parameters for December 2024 and April 2025 are presented in the following tables 2 to 9. The results of the groundwater quality is discussed below:

pH: pH is the parameter which signifies whether the sample is acidic or basic or neutral. pH of the samples ranged from 6.8 to 7.5 and 6.5 to 7.6 during December 2024 and April 2025 respectively. All the samples were within the BIS limits of 6.5-8.5.

TDS (Total Dissolved Solids): The TDS of the samples ranged from 28,375 to 37,910 mg/l and 25,896 to 31,462 mg/l during December 2024 and April 2025 respectively. All the samples had TDS more than 2000 mg/l of BIS standards. The high TDS is due to the sea water intrusion in the study area.

Chlorides (Cl): The chloride in the study area varied from 13996 to 16250 mg/l and 12120 to 16849 mg/l during December 2024 and April 2025 respectively. All the samples have chloride values more than 1000 mg/l. The high chloride values are due to the sea water intrusion.

Fluoride (F): The fluoride in the study area varied from 0.22 to 0.49 mg/l and 0.27 to 0.45 mg/l during December 2024 and April 2025 respectively. All the samples showed fluoride values less than 0.5 mg/l of BIS standards.

Sulphate (SO4): The sulphate values varied from 246 to 398 mg/l and 228 to 364 mg/l during December 2024 and April 2025 respectively. All the values showed sulphate values less than 400 mg/l which is more than the BIS standards.

Iron (Fe): The iron values varied from 0.21 to 0.39 mg/l and 0.19 to 0.42 mg/l during December 2024 and April 2025 respectively. All the values had iron values within the BIS limits.

Mercury was not traced in any of the samples.

Table 2 Sample 1: Near Road

S. No	Test Parameters	Test Method	Units	Dec 2024	April 2025
1.	pH@25^{0}c	APHA 24th Edition, 4500H+B::2023	---	6.8	6.5
2.	Color	APHA 24th Edition, 2120C::2023	Hazen	<1.0	<1.0
3.	Turbidity	APHA 24th Edition, 2131B::2023	NTU	4.1	4.4
4.	Total Dissolved Solids	APHA 24th Edition, 2540C::2023	Mg/l	31785	28431
5.	Conductivity@25^{0}c	APHA 24th Edition, 2510B::2023	µmhos/cm	48900	45239
6.	Total Hardness as $CaCO_3$	APHA 24th Edition, 2340C::2023	Mg/l	2210	2312
7.	Total Alkalinity as $CaCO_3$	APHA 24th t Edition, 2320B::2023	Mg/l	180	175
8.	Chlorides as Cl	APHA 24th Edition, 4500B::2023	Mg/l	14650	15110
9.	Fluoride as F	APHA 24th Edition, 4500B::2023	Mg/l	0.49	0.35
10.	Sulphate as SO_4^{2-}	APHA 24th Edition, 4500SO4-2::2023	Mg/l	246	228
11.	Nitrite	APHA 24th Edition, 4500NO_2-B::2023	Mg/l	4.2	4.8
12.	Magnesium as Mg	APHA 24th Edition, 3500B::2023	Mg/l	220.9	224.3
13.	Iron as Fe	APHA 24th Edition, 4500 FEB::2023	Mg/l	0.21	0.29
14.	Calcium as Ca	APHA 24th Edition, 3500B-B::2023	Mg/l	520.2	585.5
15.	Barium (Ba)	APHA 23rd Edition3125 B	Mg/l	0.08	0.05
16.	Boron(B)	APHA 23rd Edition3125 B	Mg/l	0.32	0.46
17.	Selenium(Se)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
18.	Aluminium (A)	APHA 23rd Edition3125 B	Mg/l	0.14	0.17
19.	Copper(Cu)	APHA 23rd Edition3125 B	Mg/l	0.52	0.63
20.	Iron(Fe)	APHA 23rd Edition3125 B	Mg/l	0.21	0.19
21.	Manganese(Mn)	APHA 23rd Edition3125 B	Mg/l	0.82	0.63
22.	Total Silver	APHA 23rd Edition3125 B	Mg/l	0.17	0.13
23.	Zinc(Zn)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
24.	Mercury(Hg)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
25.	Lead (Pb)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
26.	Cadmium (Cd)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
27.	Molybdenum (Mo)	APHA 23rd Edition3125 B	Mg/l	0.06	0.04
28.	Nickel (Ni)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
29.	Arsenic (As)	APHA 23rd Edition3125 B	Mg/l	0.04	0.06
30.	Chromium (Cr)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
31.	Uranium (U)	APHA 23rd Edition3125 B	Mg/l	0.08	0.05

Table 3 Sample 2: Near Temple Area

S. No	Test Parameters	Test Method	Units	Dec 2024	April 2025
1.	pH@25^{0}c	APHA 24th Edition, 4500H+B::2023	---	7.5	7.2
2.	Color	APHA 24th Edition, 2120C::2023	Hazen	<1.0	<1.0
3.	Turbidity	APHA 24th Edition, 2131B::2023	NTU	4.4	4.13
4.	Total Dissolved Solids	APHA 24th Edition, 2540C::2023	Mg/l	32660	30196
5.	Conductivity@25^{0}c	APHA 24th Edition, 2510B::2023	µmhos/cm	50250	44249
6.	Total Hardness as $CaCO_3$	APHA 24th Edition, 2340C::2023	Mg/l	4410	4681
7.	Total Alkalinity as $CaCO_3$	APHA 24th t Edition, 2320B::2023	Mg/l	140	128
8.	Chlorides as Cl	APHA 24th Edition, 4500B::2023	Mg/l	15050	14863
9.	Fluoride as F	APHA 24th Edition, 4500B::2023	Mg/l	0.34	0.29
10.	Sulphate as SO_4^{2-}	APHA 24th Edition, 4500SO4-2::2023	Mg/l	364	342
11.	Nitrite	APHA 24th Edition, 4500NO_2-B::2023	Mg/l	3.2	3.6
12.	Magnesium as Mg	APHA 24th Edition, 3500B::2023	Mg/l	560.8	526.5
13.	Iron as Fe	APHA 24th Edition, 4500 FEB::2023	Mg/l	0.28	0.31
14.	Calcium as Ca	APHA 24th Edition, 3500B-B::2023	Mg/l	840.8	838.4
15.	Barium (Ba)	APHA 23rd Edition3125 B	Mg/l	0.04	0.06
16.	Boron(B)	APHA 23rd Edition3125 B	Mg/l	0.41	0.48
17.	Selenium(Se)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
18.	Aluminium(A)	APHA 23rd Edition3125 B	Mg/l	0.18	0.21
19.	Copper(Cu)	APHA 23rd Edition3125 B	Mg/l	0.64	0.59
20.	Iron(Fe)	APHA 23rd Edition3125 B	Mg/l	0.28	0.34
21.	Manganese(Mn)	APHA 23rd Edition3125 B	Mg/l	0.77	0.82
22.	Total Silver	APHA 23rd Edition3125 B	Mg/l	0.13	0.17
23.	Zinc(Zn)	APHA 23rd Edition3125 B	Mg/l	<0.001	<0.001
24.	Mercury(Hg)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
25.	Lead (Pb)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
26.	Cadmium (Cd)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
27.	Molybdenum (Mo)	APHA 23rd Edition3125 B	Mg/l	0.08	0.05
28.	Nickel (Ni)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
29.	Arsenic (As)	APHA 23rd Edition3125 B	Mg/l	0.02	0.06
30.	Chromium (Cr)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
31.	Uranium (U)	APHA 23rd Edition3125 B	Mg/l	0.04	0.02

Table 4 Sample 3: Near HME

S. No	Test Parameters	Test Method	Units	Dec 2024	April 2025
1.	pH@25^{0}c	APHA 24th Edition, 4500H+B::2023	---	7.1	7.3
2.	Color	APHA 24th Edition, 2120C::2023	Hazen	<1.0	<1.0
3.	Turbidity	APHA 24th Edition, 2131B::2023	NTU	3.7	4.1
4.	Total Dissolved Solids	APHA 24th Edition, 2540C::2023	Mg/l	30240	28561
5.	Conductivity@25^{0}c	APHA 24th Edition, 2510B::2023	µmhos/cm	46520	44705
6.	Total Hardness as $CaCO_3$	APHA 24th Edition, 2340C::2023	Mg/l	3855	3728
7.	Total Alkalinity as $CaCO_3$	APHA 24th t Edition, 2320B::2023	Mg/l	155	13913
8.	Chlorides as Cl	APHA 24th Edition, 4500B::2023	Mg/l	14655	14826
9.	Fluoride as F	APHA 24th Edition, 4500B::2023	Mg/l	0.47	0.44
10.	Sulphate as SO_4^{2-}	APHA 24th Edition, 4500SO4-2::2023	Mg/l	298	295
11.	Nitrite	APHA 24th Edition, 4500NO_2-B::2023	Mg/l	2.8	2.5
12.	Magnesium as Mg	APHA 24th Edition, 3500B::2023	Mg/l	480.8	464.4
13.	Iron as Fe	APHA 24th Edition, 4500 FEB::2023	Mg/l	0.29	0.25
14.	Calcium as Ca	APHA 24th Edition, 3500B-B::2023	Mg/l	750.6	726.4
15.	Barium (Ba)	APHA 23rd Edition3125 B	Mg/l	0.06	0.04
16.	Boron(B)	APHA 23rd Edition3125 B	Mg/l	0.33	0.41
17.	Selenium(Se)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
18.	Aluminium(A)	APHA 23rd Edition3125 B	Mg/l	0.16	0.19
19.	Copper(Cu)	APHA 23rd Edition3125 B	Mg/l	0.41	0.38
20.	Iron(Fe)	APHA 23rd Edition3125 B	Mg/l	0.29	0.31
21.	Manganese(Mn)	APHA 23rd Edition3125 B	Mg/l	0.66	0.52
22.	Total Silver	APHA 23rd Edition3125 B	Mg/l	0.19	0.21
23.	Zinc(Zn)	APHA 23rd Edition3125 B	Mg/l	<0.001	<0.001
24.	Mercury(Hg)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
25.	Lead (Pb)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
26.	Cadmium (Cd)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
27.	Molybdenum (Mo)	APHA 23rd Edition3125 B	Mg/l	0.12	0.18
28.	Nickel (Ni)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
29.	Arsenic (As)	APHA 23rd Edition3125 B	Mg/l	0.06	0.09
30.	Chromium (Cr)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
31.	Uranium (U)	APHA 23rd Edition3125 B	Mg/l	0.06	0.04

Table 5 Sample 4: Near HMG

S. No	Test Parameters	Test Method	Units	Dec 2024	April 2025
1.	pH@25^{0}c	APHA 24th Edition, 4500H+B::2023	---	7.4	7.1
2.	Color	APHA 24th Edition, 2120C::2023	Hazen	<1.0	<1.0
3.	Turbidity	APHA 24th Edition, 2131B::2023	NTU	3.9	3.2
4.	Total Dissolved Solids	APHA 24th Edition, 2540C::2023	Mg/l	30920	31462
5.	Conductivity@25^{0}c	APHA 24th Edition, 2510B::2023	µmhos/cm	47580	43084
6.	Total Hardness as $CaCO_3$	APHA 24th Edition, 2340C::2023	Mg/l	4885	4892
7.	Total Alkalinity as $CaCO_3$	APHA 24th Edition, 2320B::2023	Mg/l	190	177
8.	Chlorides as Cl	APHA 24th Edition, 4500B::2023	Mg/l	15210	16849
9.	Fluoride as F	APHA 24th Edition, 4500B::2023	Mg/l	0.33	0.29
10.	Sulphate as SO_4^{2-}	APHA 24th Edition, 4500SO4-2::2023	Mg/l	258	262
11.	Nitrite	APHA 24th Edition, 4500NO_2-B::2023	Mg/l	3.6	4.9
12.	Magnesium as Mg	APHA 24th Edition, 3500B::2023	Mg/l	658.6	665.2
13.	Iron as Fe	APHA 24th Edition, 4500 FEB::2023	Mg/l	0.37	0.42
14.	Calcium as Ca	APHA 24th Edition, 3500B-B::2023	Mg/l	870.0	846.0
15.	Barium (Ba)	APHA 23rd Edition3125 B	Mg/l	0.08	0.05
16.	Boron(B)	APHA 23rd Edition3125 B	Mg/l	0.42	0.39
17.	Selenium(Se)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
18.	Aluminium(A)	APHA 23rd Edition3125 B	Mg/l	0.18	0.15
19.	Copper(Cu)	APHA 23rd Edition3125 B	Mg/l	0.38	0.41
20.	Iron(Fe)	APHA 23rd Edition3125 B	Mg/l	0.37	0.32
21.	Manganese(Mn)	APHA 23rd Edition3125 B	Mg/l	0.46	0.38
22.	Total Silver	APHA 23rd Edition3125 B	Mg/l	0.14	0.17
23.	Zinc(Zn)	APHA 23rd Edition3125 B	Mg/l	<0.001	<0.001
24.	Mercury(Hg)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
25.	Lead (Pb)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
26.	Cadmium (Cd)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
27.	Molybdenum (Mo)	APHA 23rd Edition3125 B	Mg/l	0.07	0.09
28.	Nickel (Ni)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
29.	Arsenic (As)	APHA 23rd Edition3125 B	Mg/l	0.04	0.01
30.	Chromium (Cr)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
31.	Uranium (U)	APHA 23rd Edition3125 B	Mg/l	0.08	0.02

Table 6 Sample 5: Near HMH

S. No	Test Parameters	Test Method	Units	Dec 2024	April 2025
1.	pH@25^{0}c	APHA 24th Edition, 4500H+B::2023	---	7.5	7.2
2.	Color	APHA 24th Edition, 2120C::2023	Hazen	<1.0	<1.0
3.	Turbidity	APHA 24th Edition, 2131B::2023	NTU	4	4.1
4.	Total Dissolved Solids	APHA 24th Edition, 2540C::2023	Mg/l	28375	25896
5.	Conductivity@25^{0}c	APHA 24th Edition, 2510B::2023	µmhos/cm	43650	40138
6.	Total Hardness as $CaCO_3$	APHA 24th Edition, 2340C::2023	Mg/l	4750	4625
7.	Total Alkalinity as $CaCO_3$	APHA 24th Edition, 2320B::2023	Mg/l	185	166
8.	Chlorides as Cl	APHA 24th Edition, 4500B::2023	Mg/l	16250	13448
9.	Fluoride as F	APHA 24th Edition, 4500B::2023	Mg/l	0.33	0.45
10.	Sulphate as SO_4^{2-}	APHA 24th Edition, 4500SO4-2::2023	Mg/l	287	271
11.	Nitrite	APHA 24th Edition, 4500NO_2-B::2023	Mg/l	3.4	3.9
12.	Magnesium as Mg	APHA 24th Edition, 3500B::2023	Mg/l	600.9	628.3
13.	Iron as Fe	APHA 24th Edition, 4500 FEB::2023	Mg/l	0.33	0.36
14.	Calcium as Ca	APHA 24th Edition, 3500B-B::2023	Mg/l	910.8	926.4
15.	Barium (Ba)	APHA 23rd Edition3125 B	Mg/l	0.12	0.18
16.	Boron(B)	APHA 23rd Edition3125 B	Mg/l	0.52	0.49
17.	Selenium(Se)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
18.	Aluminium(A)	APHA 23rd Edition3125 B	Mg/l	0.21	0.25
19.	Copper(Cu)	APHA 23rd Edition3125 B	Mg/l	0.54	0.48
20.	Iron(Fe)	APHA 23rd Edition3125 B	Mg/l	0.33	0.39
21.	Manganese(Mn)	APHA 23rd Edition3125 B	Mg/l	0.86	0.79
22.	Total Silver	APHA 23rd Edition3125 B	Mg/l	0.09	0.05
23.	Zinc(Zn)	APHA 23rd Edition3125 B	Mg/l	<0.001	<0.001
24.	Mercury(Hg)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
25.	Lead (Pb)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
26.	Cadmium (Cd)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
27.	Molybdenum (Mo)	APHA 23rd Edition3125 B	Mg/l	0.06	0.02
28.	Nickel (Ni)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
29.	Arsenic (As)	APHA 23rd Edition3125 B	Mg/l	0.03	0.05
30.	Chromium (Cr)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
31.	Uranium (U)	APHA 23rd Edition3125 B	Mg/l	0.12	0.19

Table 7 Sample 6: Near HMA

S. No	Test Parameters	Test Method	Units	Dec 2024	April 2025
1.	pH@25^{0}c	APHA 24th Edition, 4500H+B::2023	---	7.3	6.8
2.	Color	APHA 24th Edition, 2120C::2023	Hazen	<1.0	<1.0
3.	Turbidity	APHA 24th Edition, 2131B::2023	NTU	4.3	3.9
4.	Total Dissolved Solids	APHA 24th Edition, 2540C::2023	Mg/l	34750	31268
5.	Conductivity@25^{0}c	APHA 24th Edition, 2510B::2023	µmhos/cm	53450	46472
6.	Total Hardness as $CaCO_3$	APHA 24th Edition, 2340C::2023	Mg/l	5085	4713
7.	Total Alkalinity as $CaCO_3$	APHA 24th Edition, 2320B::2023	Mg/l	245	226
8.	Chlorides as Cl	APHA 24th Edition, 4500B::2023	Mg/l	16680	14901
9.	Fluoride as F	APHA 24th Edition, 4500B::2023	Mg/l	0.16	0.27
10.	Sulphate as SO_4^{2-}	APHA 24th Edition, 4500SO4-2::2023	Mg/l	325	335
11.	Nitrite	APHA 24th Edition, 4500NO_2-B::2023	Mg/l	6.2	6.8
12.	Magnesium as Mg	APHA 24th Edition, 3500B::2023	Mg/l	640.0	635.0
13.	Iron as Fe	APHA 24th Edition, 4500 FEB::2023	Mg/l	0.34	0.31
14.	Calcium as Ca	APHA 24th Edition, 3500B-B::2023	Mg/l	980.5	969.4
15.	Barium (Ba)	APHA 23rd Edition3125 B	Mg/l	0.06	0.04
16.	Boron(B)	APHA 23rd Edition3125 B	Mg/l	0.38	0.29
17.	Selenium(Se)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
18.	Aluminium(A)	APHA 23rd Edition3125 B	Mg/l	0.17	0.14
19.	Copper(Cu)	APHA 23rd Edition3125 B	Mg/l	0.48	0.35
20.	Iron(Fe)	APHA 23rd Edition3125 B	Mg/l	0.34	0.39
21.	Manganese(Mn)	APHA 23rd Edition3125 B	Mg/l	0.62	0.64
22.	Total Silver	APHA 23rd Edition3125 B	Mg/l	0.09	0.05
23.	Zinc(Zn)	APHA 23rd Edition3125 B	Mg/l	<0.001	<0.001
24.	Mercury(Hg)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
25.	Lead (Pb)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
26.	Cadmium (Cd)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
27.	Molybdenum (Mo)	APHA 23rd Edition3125 B	Mg/l	0.08	0.04
28.	Nickel (Ni)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
29.	Arsenic (As)	APHA 23rd Edition3125 B	Mg/l	0.01	0.04
30.	Chromium (Cr)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
31.	Uranium (U)	APHA 23rd Edition3125 B	Mg/l	0.06	0.03

Table 8 Sample 7: Near HIMB

S. No	Test Parameters	Test Method	Units	Dec 2024	April 2025
1.	pH@25^{0}c	APHA 24th Edition, 4500H+B::2023	---	7.1	7.6
2.	Color	APHA 24th Edition, 2120C::2023	Hazen	<1.0	<1.0
3.	Turbidity	APHA 24th Edition, 2131B::2023	NTU	4.2	4.5
4.	Total Dissolved Solids	APHA 24th Edition, 2540C::2023	Mg/l	37910	35208
5.	Conductivity@25^{0}c	APHA 24th Edition, 2510B::2023	µmhos/cm	58320	53814
6.	Total Hardness as $CaCO_3$	APHA 24th Edition, 2340C::2023	Mg/l	4865	3100
7.	Total Alkalinity as $CaCO_3$	APHA 24th Edition, 2320B::2023	Mg/l	150	142
8.	Chlorides as Cl	APHA 24th Edition, 4500B::2023	Mg/l	16985	14426
9.	Fluoride as F	APHA 24th Edition, 4500B::2023	Mg/l	0.32	0.28
10.	Sulphate as SO_4^{2-}	APHA 24th Edition, 4500SO4-2::2023	Mg/l	375	341
11.	Nitrite	APHA 24th Edition, 4500NO_2-B::2023	Mg/l	4.8	4.2
12.	Magnesium as Mg	APHA 24th Edition, 3500B::2023	Mg/l	610.7	656.3
13.	Iron as Fe	APHA 24th Edition, 4500 FEB::2023	Mg/l	0.39	0.41
14.	Calcium as Ca	APHA 24th Edition, 3500B-B::2023	Mg/l	940.8	959.8
15.	Barium (Ba)	APHA 23rd Edition3125 B	Mg/l	0.11	0.16
16.	Boron(B)	APHA 23rd Edition3125 B	Mg/l	0.37	0.41
17.	Selenium(Se)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
18.	Aluminium(A)	APHA 23rd Edition3125 B	Mg/l	0.11	0.06
19.	Copper(Cu)	APHA 23rd Edition3125 B	Mg/l	0.55	0.49
20.	Iron(Fe)	APHA 23rd Edition3125 B	Mg/l	0.39	0.45
21.	Manganese(Mn)	APHA 23rd Edition3125 B	Mg/l	0.52	0.56
22.	Total Silver	APHA 23rd Edition3125 B	Mg/l	0.24	0.29
23.	Zinc(Zn)	APHA 23rd Edition3125 B	Mg/l	<0.001	<0.001
24.	Mercury(Hg)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
25.	Lead (Pb)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
26.	Cadmium (Cd)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
27.	Molybdenum (Mo)	APHA 23rd Edition3125 B	Mg/l	0.11	0.16
28.	Nickel (Ni)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
29.	Arsenic (As)	APHA 23rd Edition3125 B	Mg/l	0.03	0.05
30.	Chromium (Cr)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
31.	Uranium (U)	APHA 23rd Edition3125 B	Mg/l	0.11	0.24

Table 9 Sample 8: Near HMC

S. No	Test Parameters	Test Method	Units	Dec 2024	April 2025
1.	pH@25^{0}c	APHA 24th Edition, 4500H+B::2023	---	6.9	6.8
2.	Color	APHA 24th Edition, 2120C::2023	Hazen	<1.0	<1.0
3.	Turbidity	APHA 24th Edition, 2131B::2023	NTU	3.8	3.6
4.	Total Dissolved Solids	APHA 24th Edition, 2540C::2023	Mg/l	29410	26413
5.	Conductivity@25^{0}c	APHA 24th Edition, 2510B::2023	µmhos/cm	45240	41896
6.	Total Hardness as $CaCO_3$	APHA 24th Edition, 2340C::2023	Mg/l	4368	4568
7.	Total Alkalinity as $CaCO_3$	APHA 24th Edition, 2320B::2023	Mg/l	180	165
8.	Chlorides as Cl	APHA 24th Edition, 4500B::2023	Mg/l	13996	12120
9.	Fluoride as F	APHA 24th Edition, 4500B::2023	Mg/l	0.22	0.41
10.	Sulphate as SO_4^{2-}	APHA 24th Edition, 4500SO4-2::2023	Mg/l	389	364
11.	Nitrite	APHA 24th Edition, 4500NO_2-B::2023	Mg/l	3.7	4.1
12.	Magnesium as Mg	APHA 24th Edition, 3500B::2023	Mg/l	580.5	536.2
13.	Iron as Fe	APHA 24th Edition, 4500 FEB::2023	Mg/l	0.31	0.39
14.	Calcium as Ca	APHA 24th Edition, 3500B-B::2023	Mg/l	791.5	786.2
15.	Barium (Ba)	APHA 23rd Edition3125 B	Mg/l	0.07	0.04
16.	Boron(B)	APHA 23rd Edition3125 B	Mg/l	0.29	0.25
17.	Selenium(Se)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
18.	Aluminium(A)	APHA 23rd Edition3125 B	Mg/l	0.09	0.04
19.	Copper(Cu)	APHA 23rd Edition3125 B	Mg/l	0.48	0.42
20.	Iron(Fe)	APHA 23rd Edition3125 B	Mg/l	0.31	0.36
21.	Manganese(Mn)	APHA 23rd Edition3125 B	Mg/l	0.71	0.68
22.	Total Silver	APHA 23rd Edition3125 B	Mg/l	0.21	0.25
23.	Zinc(Zn)	APHA 23rd Edition3125 B	Mg/l	<0.001	<0.001
24.	Mercury(Hg)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
25.	Lead (Pb)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
26.	Cadmium (Cd)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
27.	Molybdenum (Mo)	APHA 23rd Edition3125 B	Mg/l	0.14	0.17
28.	Nickel (Ni)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
29.	Arsenic (As)	APHA 23rd Edition3125 B	Mg/l	0.05	0.02
30.	Chromium (Cr)	APHA 23rd Edition3125 B	Mg/l	<0.01	<0.01
31.	Uranium (U)	APHA 23rd Edition3125 B	Mg/l	0.07	0.06

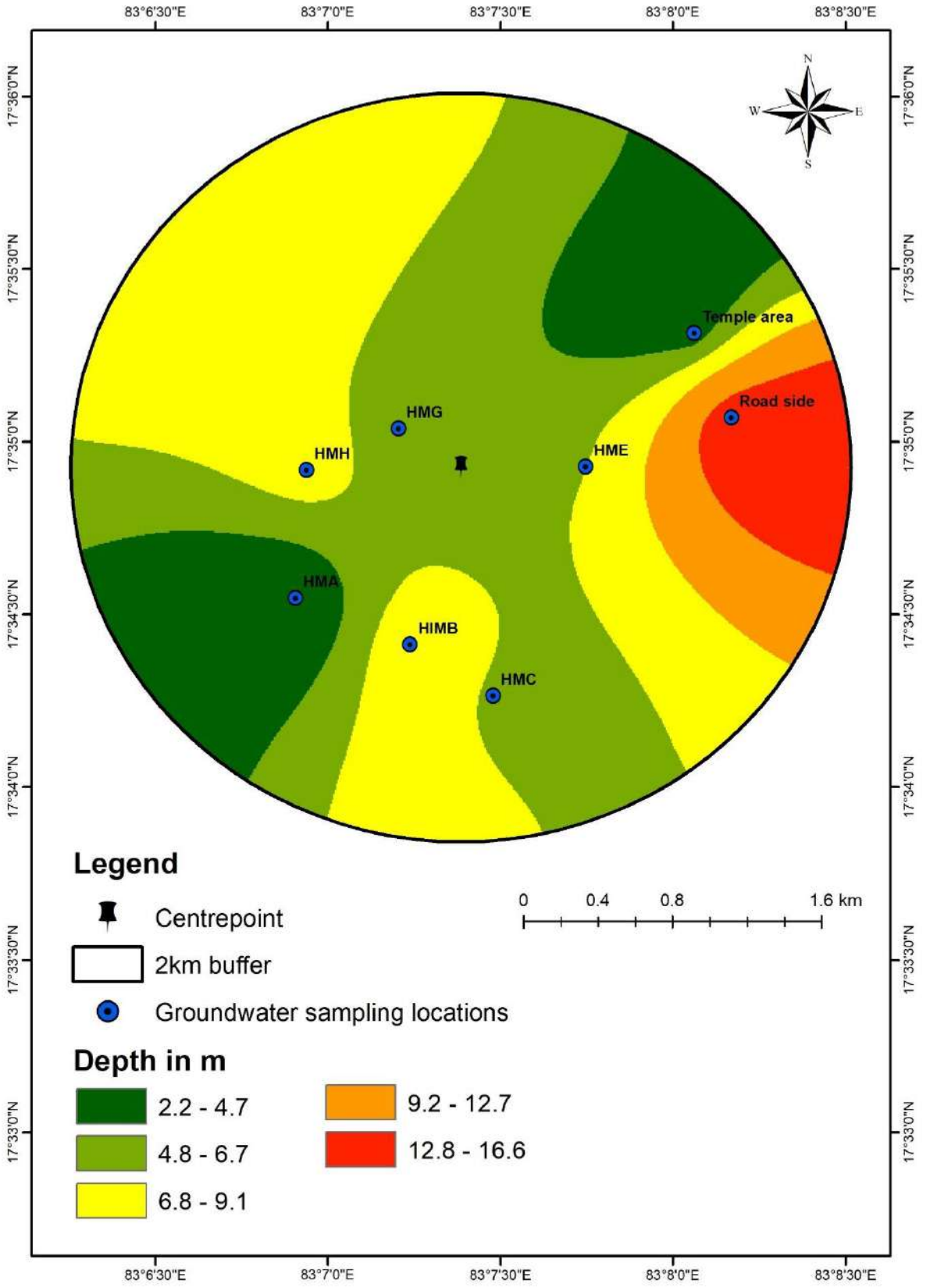


Figure 3 Depth of the study area

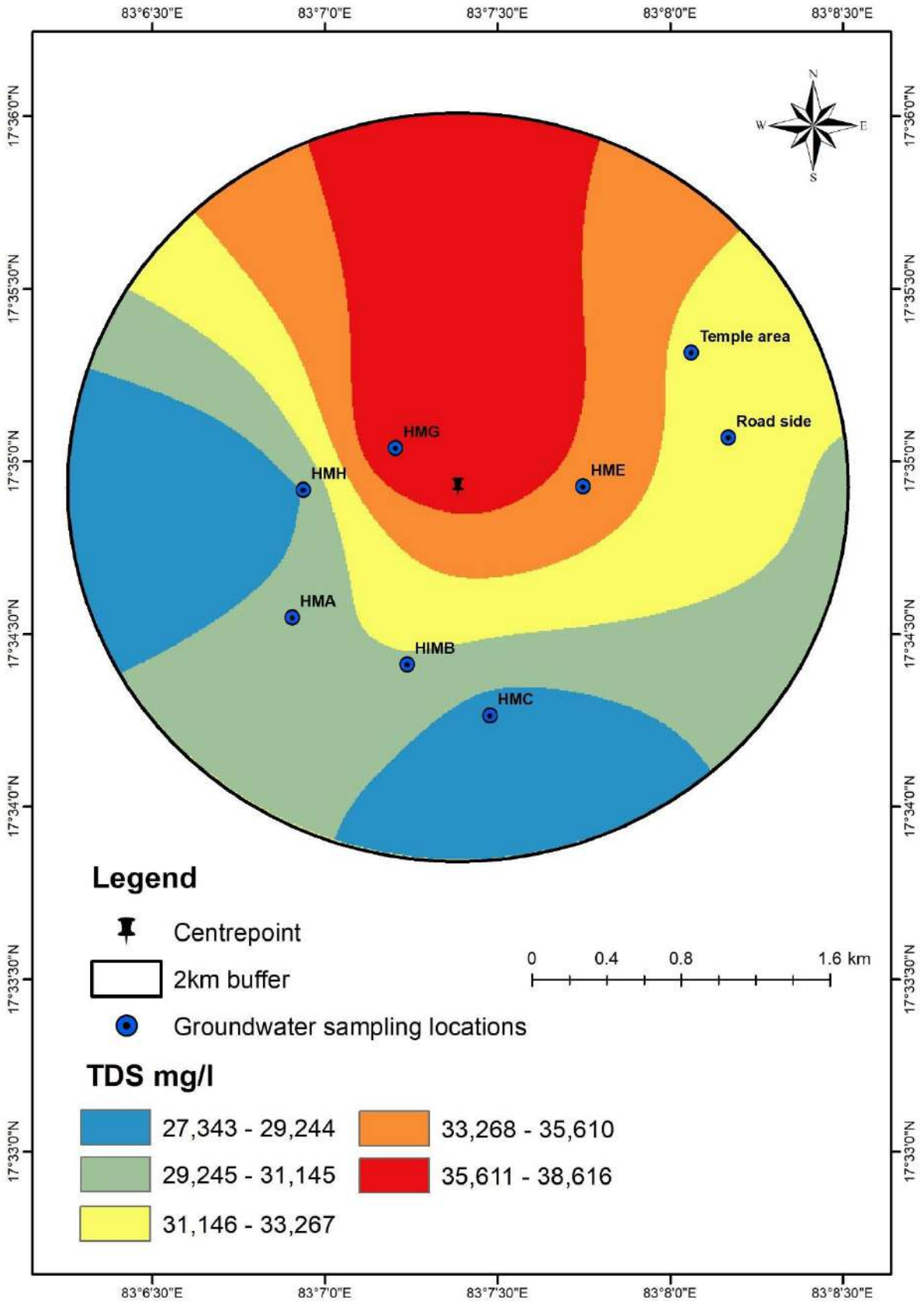


Figure 4 TDS of the wells (December 2024)

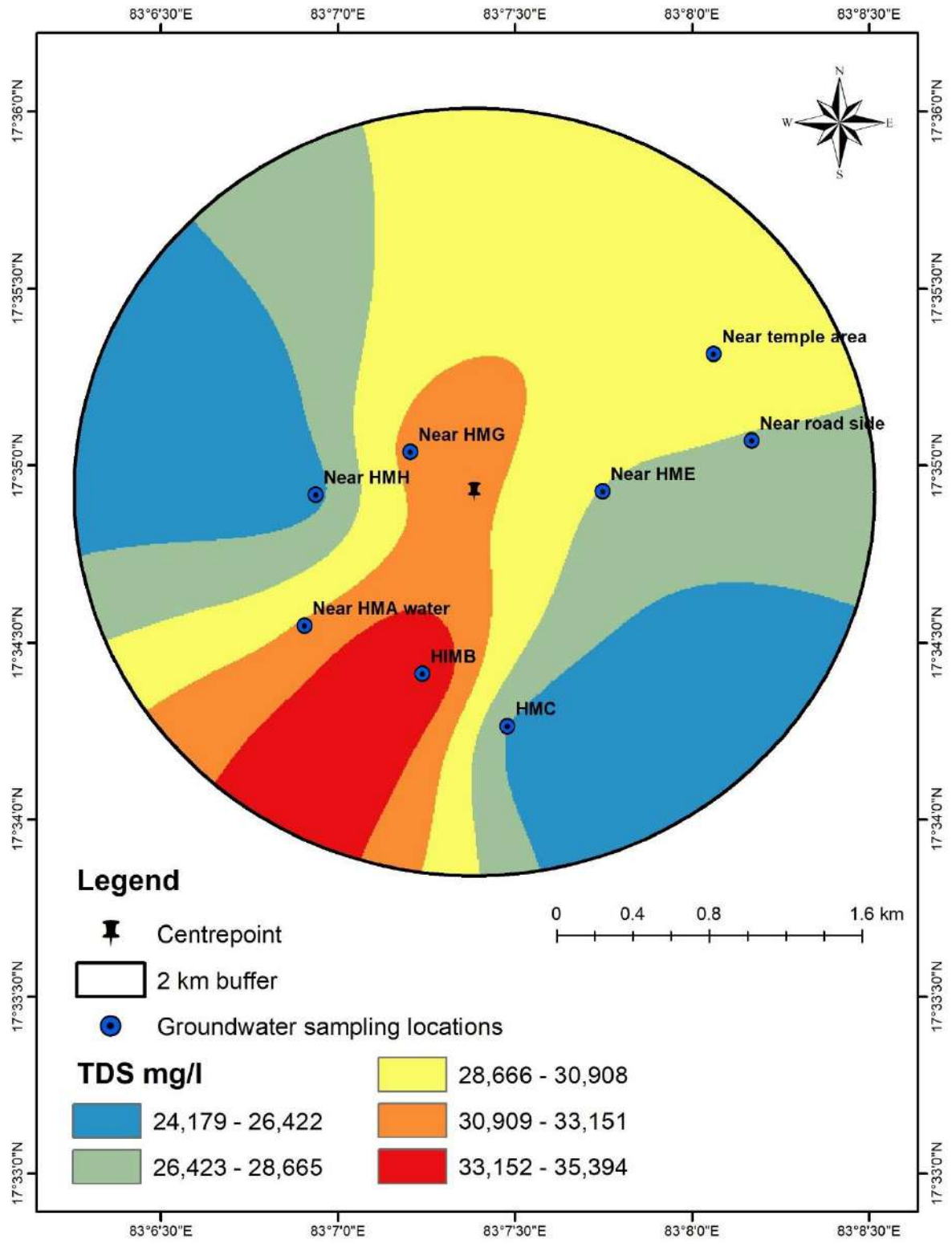


Figure 5 TDS of the wells (April 2024)

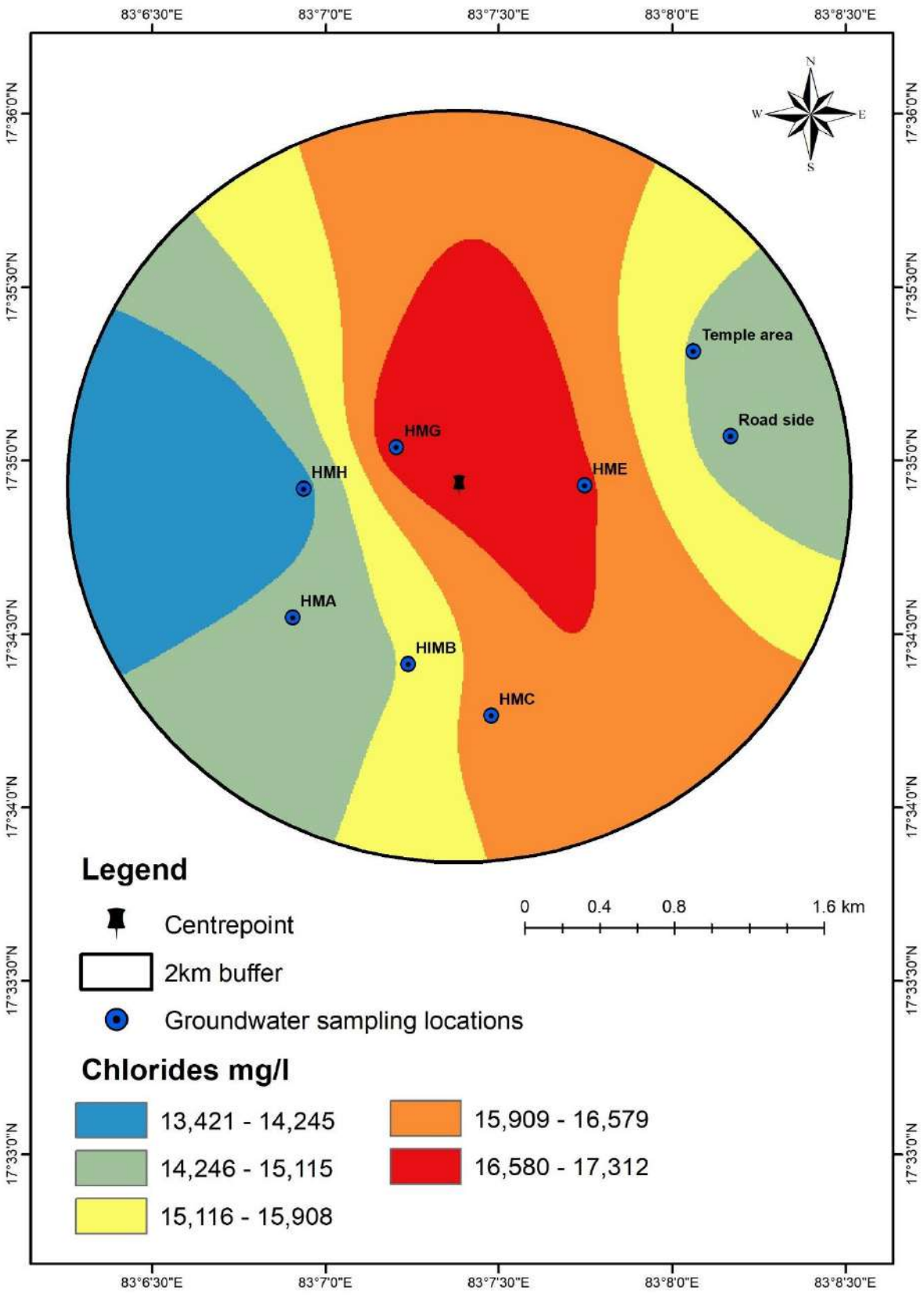


Figure 6 Chloride of the wells (December 2024)

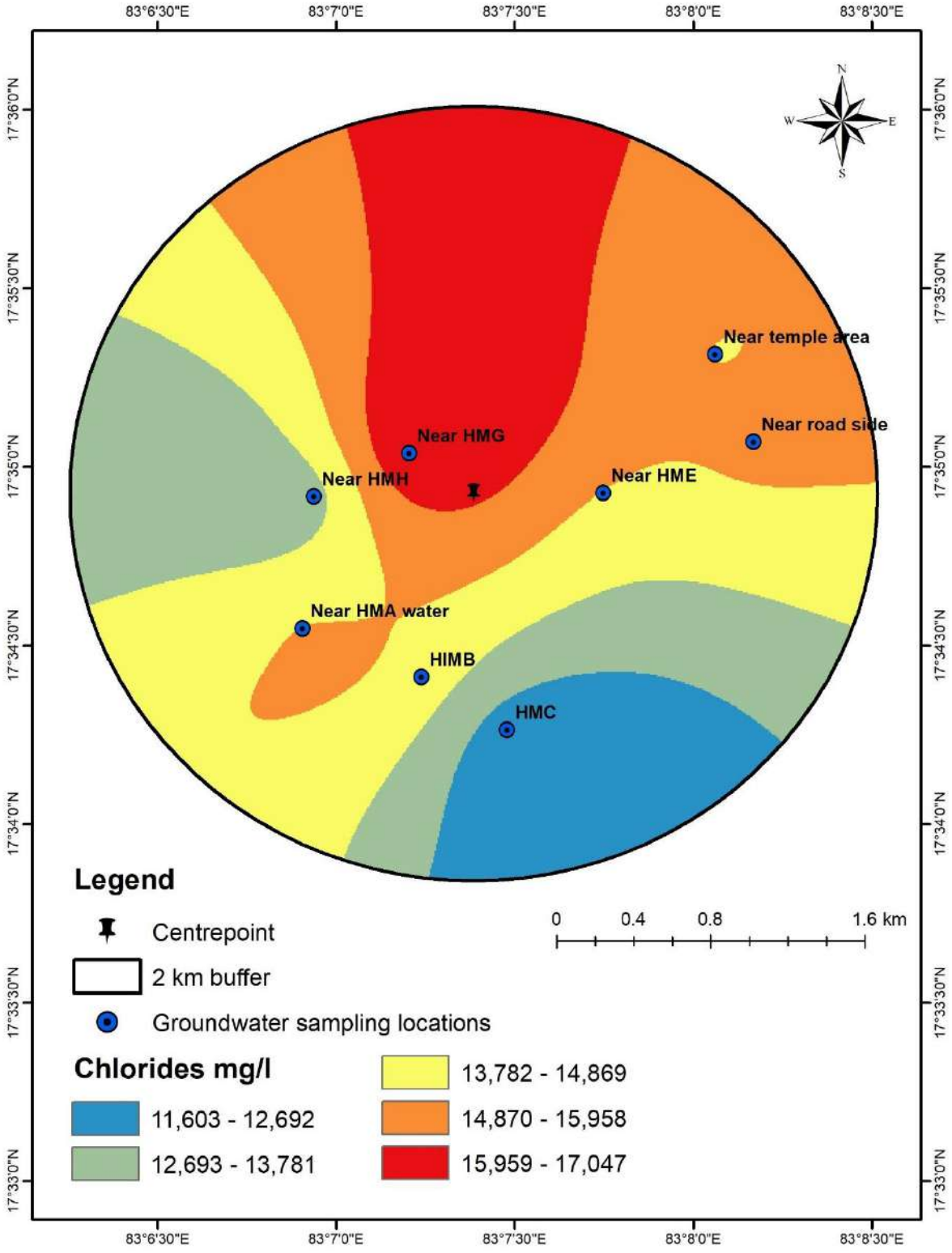


Figure 7 Chloride of the wells (April 2025)

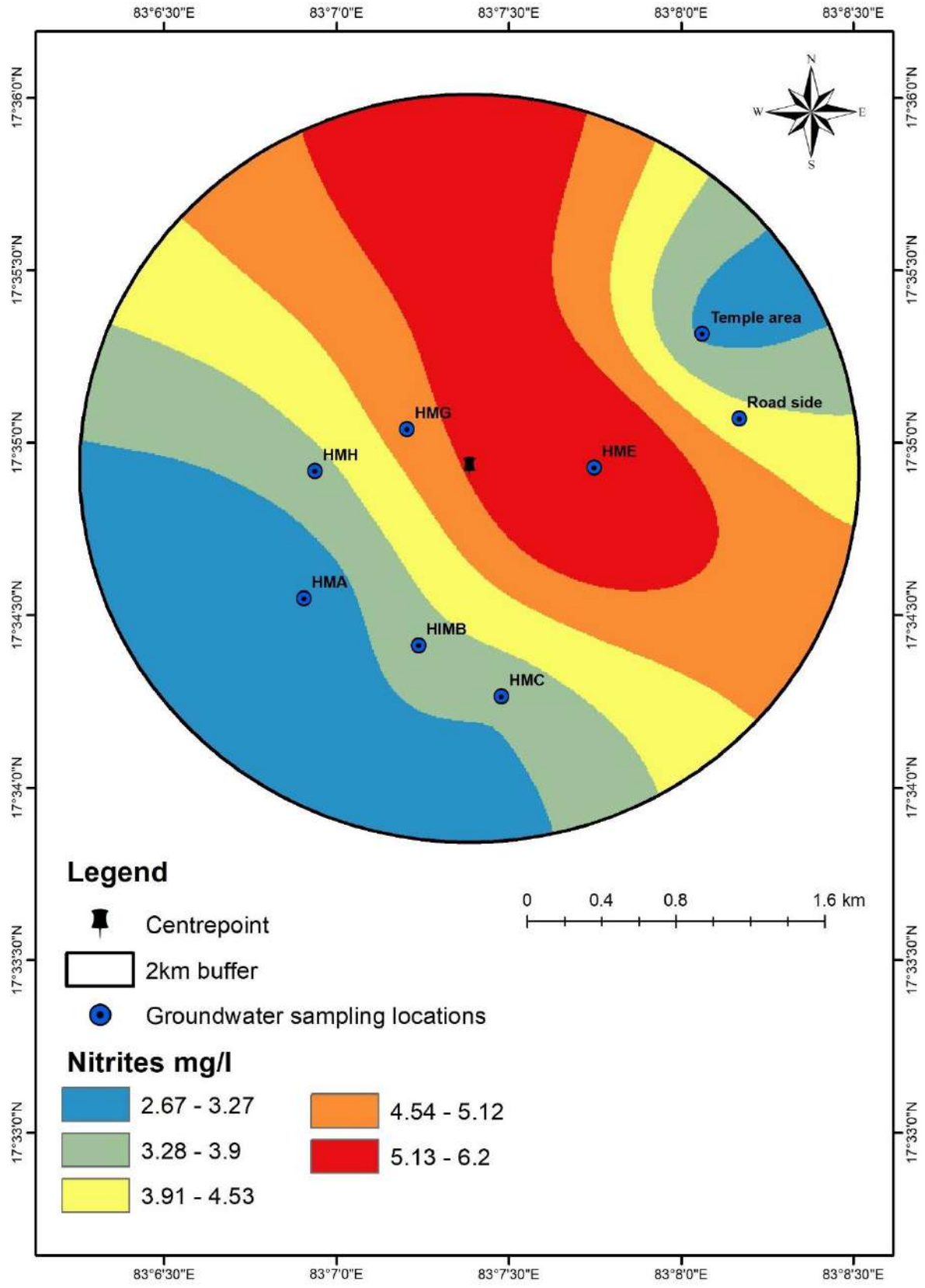


Figure 8 Nitrites of the wells (December 2024)

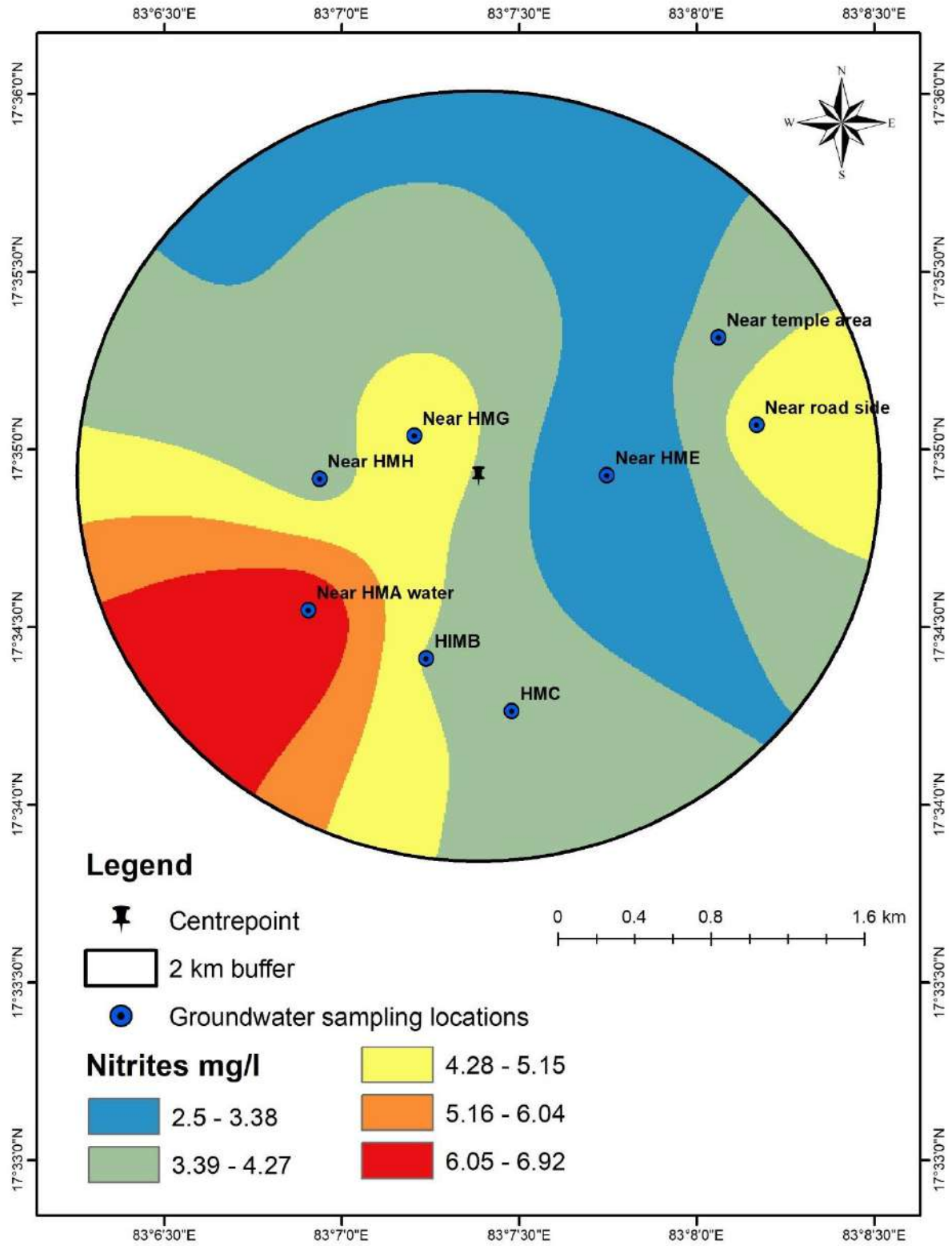
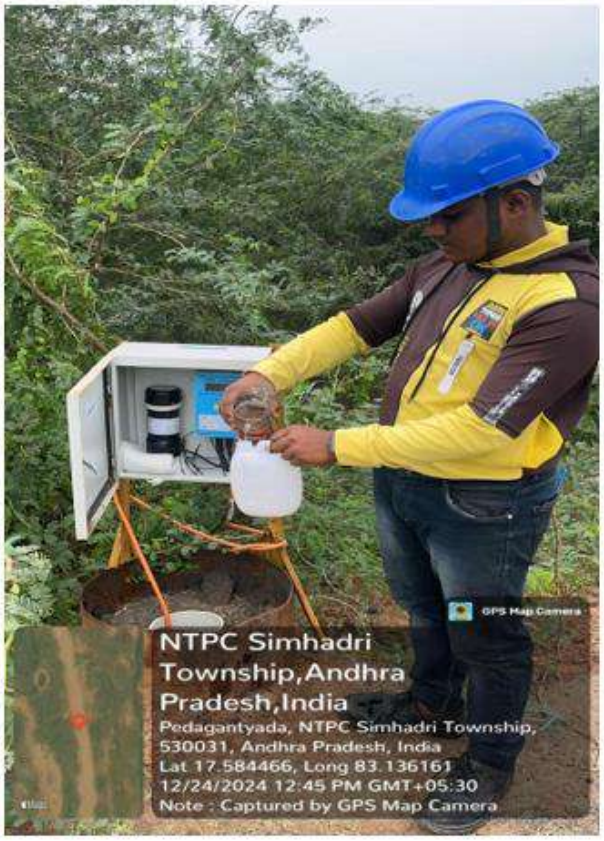


Figure 9 Nitrites of the wells (April 2025)

Photos of Sampling

OLD BORE WELLS

Near road side





Near temple area





NEW BORE WELLS

Near HME





Near HMG


DIGITAL WATER LEVEL RECORDER
GPS Map Camera
NTPC Simhadri Township,Andhra Pradesh,India
Paravada, NTPC Simhadri Township, 531020, Andhra Pradesh, India
Lat 17.583941, Long 83.120082
12/24/2024 02:38 PM GMT+05:30
Note : Captured by GPS Map Camera


Water e-Governance Product
DWLR - (Telemetry)
Budro Monitech Pvt. Ltd
BUL FROG
GPS Map Camera
NTPC Simhadri Township,Andhra Pradesh,India
Paravada, NTPC Simhadri Township, 531020, Andhra Pradesh, India
Lat 17.583934, Long 83.120130
12/24/2024 02:40 PM GMT+05:30
Note : Captured by GPS Map Camera

Near HMH


GPS Map Camera
NTPC Simhadri Township,Andhra Pradesh,India
Paravada, NTPC Simhadri Township, 531020, Andhra Pradesh, India
Lat 17.581934, Long 83.115637
12/24/2024 02:48 PM GMT+05:30
Note : Captured by GPS Map Camera


DWLR - (Telemetry)
Bulfro Monitech Pvt. Ltd
GPS Map Camera
NTPC Simhadri Township,Andhra Pradesh,India
Paravada, NTPC Simhadri Township, 531020, Andhra Pradesh, India
Lat 17.581934, Long 83.115628
12/24/2024 02:49 PM GMT+05:30
Note : Captured by GPS Map Camera

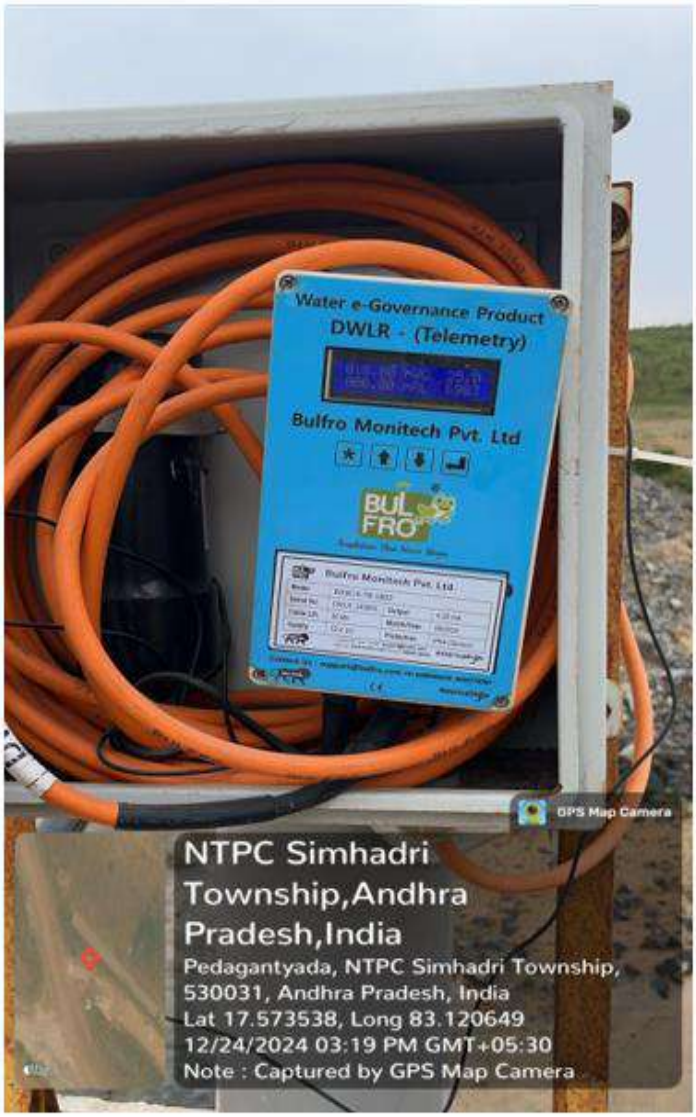
Near HMA


GPS Map Camera
NTPC Simhadri Township,Andhra Pradesh,India
Paravada, NTPC Simhadri Township, 531020, Andhra Pradesh, India
Lat 17.575766, Long 83.115103
12/24/2024 03:01 PM GMT+05:30
Note : Captured by GPS Map Camera


DWLR
Bulfro Monitech Pvt. Ltd
BUL FRO
Bulfro Monitech Pvt. Ltd.
GPS Map Camera
NTPC Simhadri Township,Andhra Pradesh,India
Paravada, NTPC Simhadri Township, 531020, Andhra Pradesh, India
Lat 17.575780, Long 83.115050
12/24/2024 03:03 PM GMT+05:30
Note : Captured by GPS Map Camera

Near HIMB


DIGITAL WATER LEVEL RECORDER
GPS Map Camera
NTPC Simhadri Township,Andhra Pradesh,India
Pedagantyada, NTPC Simhadri Township, 530031, Andhra Pradesh, India
Lat 17.573507, Long 83.120646
12/24/2024 03:20 PM GMT+05:30
Note : Captured by GPS Map Camera


Water e-Governance Product
DWLR - (Telemetry)
Bulfro Monitech Pvt. Ltd
BUL FRO
GPS Map Camera
NTPC Simhadri Township,Andhra Pradesh,India
Pedagantyada, NTPC Simhadri Township, 530031, Andhra Pradesh, India
Lat 17.573538, Long 83.120649
12/24/2024 03:19 PM GMT+05:30
Note : Captured by GPS Map Camera

Near HMC


DIGITAL WATER LEVEL RECORDER
GPS Map Camera
NTPC Simhadri Township,Andhra Pradesh,India
Pedagantyada, NTPC Simhadri Township, 530031, Andhra Pradesh, India
Lat 17.571035, Long 83.124646
12/24/2024 03:37 PM GMT+05:30
Note : Captured by GPS Map Camera


Water e-Governance Product
DWLR (Telemetry)
Bulfro Monitech Pvt. Ltd
BUL FRO
GPS Map Camera
NTPC Simhadri Township,Andhra Pradesh,India
Pedagantyada, NTPC Simhadri Township, 530031, Andhra Pradesh, India
Lat 17.571072, Long 83.124420
12/24/2024 03:40 PM GMT+05:30
Note : Captured by GPS Map Camera

Conclusion:

The samples showed high TDS and high chloride values in the study area. The high values are due to the sea water intrusion in the study area. Due to the proximity of the study area near the coast, there are high chances of sea water intrusion due to which high values of TDS, sodium, chloride were observed. The values of sulphate, fluoride etc were within the BIS limits of drinking water. Mercury was not detected in any of the sample.

Recommendations:

- Regular monitoring of the groundwater quality in these peizometers

Annexure 1

BIS standards for groundwater quality

Table 1 Organoleptic and Physical Parameters

(*Foreword* and *Clause* 4)

Sl No.	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	Method of Test, Ref to Part of IS 3025	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
i)	Colour, Hazen units, *Max*	5	15	Part 4	Extended to 15 only, if toxic substances are not suspected in absence of alternate sources
ii)	Odour	Agreeable	Agreeable	Part 5	a) Test cold and when heated b) Test at several dilutions
iii)	*p*H value	6.5-8.5	No relaxation	Part 11	—
iv)	Taste	Agreeable	Agreeable	Parts 7 and 8	Test to be conducted only after safety has been established
v)	Turbidity, NTU, *Max*	1	5	Part 10	—
vi)	Total dissolved solids, mg/l, *Max*	500	2 000	Part 16	—

NOTE — It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible limit in the absence of alternate source' in col 4, above which the sources will have to be rejected.

Table 2 General Parameters Concerning Substances Undesirable in Excessive Amounts

(*Foreword* and *Clause* 4)

Sl No.	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	Method of Test, Ref to	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
i)	Aluminium (as Al), mg/l, *Max*	0.03	0.2	IS 3025 (Part 55)	—
ii)	Ammonia (as total ammonia-N), mg/l, *Max*	0.5	No relaxation	IS 3025 (Part 34)	—
iii)	Anionic detergents (as MBAS) mg/l, *Max*	0.2	1.0	Annex K of IS 13428	—
iv)	Barium (as Ba), mg/l, *Max*	0.7	No relaxation	Annex F of IS 13428* or IS 15302	—
v)	Boron (as B), mg/l, *Max*	0.5	1.0	IS 3025 (Part 57)	—
vi)	Calcium (as Ca), mg/l, *Max*	75	200	IS 3025 (Part 40)	—
vii)	Chloramines (as Cl_2), mg/l, *Max*	4.0	No relaxation	IS 3025 (Part 26)* or APHA 4500-Cl G	—
viii)	Chloride (as Cl), mg/l, *Max*	250	1 000	IS 3025 (Part 32)	—
ix)	Copper (as Cu), mg/l, *Max*	0.05	1.5	IS 3025 (Part 42)	—
x)	Fluoride (as F) mg/l, *Max*	1.0	1.5	IS 3025 (Part 60)	—
xi)	Free residual chlorine, mg/l, *Min*	0.2	1	IS 3025 (Part 26)	To be applicable only when water is chlorinated. Tested at consumer end. When protection against viral infection is required, it should be minimum 0.5 mg/l
xii)	Iron (as Fe), mg/l, *Max*	0.3	No relaxation	IS 3025 (Part 53)	Total concentration of manganese (as Mn) and iron (as Fe) shall not exceed 0.3 mg/l
xiii)	Magnesium (as Mg), mg/l, *Max*	30	100	IS 3025 (Part 46)	—
xiv)	Manganese (as Mn), mg/l, *Max*	0.1	0.3	IS 3025 (Part 59)	Total concentration of manganese (as Mn) and iron (as Fe) shall not exceed 0.3 mg/l
xv)	Mineral oil, mg/l, *Max*	0.5	No relaxation	Clause **6** of IS 3025 (Part 39) Infrared partition method	—
xvi)	Nitrate (as NO_3), mg/l, *Max*	45	No relaxation	IS 3025 (Part 34)	—
xvii)	Phenolic compounds (as C_6H_5OH), mg/l, *Max*	0.001	0.002	IS 3025 (Part 43)	—
xviii)	Selenium (as Se), mg/l, *Max*	0.01	No relaxation	IS 3025 (Part 56) or IS 15303*	—
xix)	Silver (as Ag), mg/l, *Max*	0.1	No relaxation	Annex J of IS 13428	—
xx)	Sulphate (as SO_4) mg/l, *Max*	200	400	IS 3025 (Part 24)	May be extended to 400 provided that Magnesium does not exceed 30
xxi)	Sulphide (as H_2S), mg/l, *Max*	0.05	No relaxation	IS 3025 (Part 29)	—
xxii)	Total alkalinity as calcium carbonate, mg/l, *Max*	200	600	IS 3025 (Part 23)	—
xxiii)	Total hardness (as $CaCO_3$), mg/l, *Max*	200	600	IS 3025 (Part 21)	—
xxiv)	Zinc (as Zn), mg/l, *Max*	5	15	IS 3025 (Part 49)	—

NOTES

1 In case of dispute, the method indicated by '*' shall be the referee method.

2 It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible limit in the absence of alternate source' in col 4, above which the sources will have to be rejected.

Table 3 Parameters Concerning Toxic Substances

(*Foreword* and *Clause* 4)

Sl No.	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	Method of Test, Ref to	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
i)	Cadmium (as Cd), mg/l, *Max*	0.003	No relaxation	IS 3025 (Part 41)	—
ii)	Cyanide (as CN), mg/l, *Max*	0.05	No relaxation	IS 3025 (Part 27)	—
iii)	Lead (as Pb), mg/l, *Max*	0.01	No relaxation	IS 3025 (Part 47)	—
iv)	Mercury (as Hg), mg/l, *Max*	0.001	No relaxation	IS 3025 (Part 48)/ Mercury analyser	—
v)	Molybdenum (as Mo), mg/l, *Max*	0.07	No relaxation	IS 3025 (Part 2)	—
vi)	Nickel (as Ni), mg/l, *Max*	0.02	No relaxation	IS 3025 (Part 54)	—
vii)	Pesticides, µg/l, *Max*	See Table 5	No relaxation	See Table 5	—
viii)	Polychlorinated biphenyls, mg/l, *Max*	0.000 5	No relaxation	ASTM 5175*	— or APHA 6630
ix)	Polynuclear aromatic hydrocarbons (as PAH), mg/l, *Max*	0.000 1	No relaxation	APHA 6440	—
x)	Total arsenic (as As), mg/l, *Max*	0.01	0.05	IS 3025 (Part 37)	—
xi)	Total chromium (as Cr), mg/l, *Max*	0.05	No relaxation	IS 3025 (Part 52)	—
xii)	Trihalomethanes:				
	a) Bromoform, mg/l, *Max*	0.1	No relaxation	ASTM D 3973-85* or APHA 6232	—
	b) Dibromochloromethane, mg/l, *Max*	0.1	No relaxation	ASTM D 3973-85* or APHA 6232	—
	c) Bromodichloromethane, mg/l, *Max*	0.06	No relaxation	ASTM D 3973-85* or APHA 6232	—
	d) Chloroform, mg/l, *Max*	0.2	No relaxation	ASTM D 3973-85* or APHA 6232	—

NOTES

1 In case of dispute, the method indicated by '*' shall be the referee method.

2 It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible limit in the absence of alternate source' in col 4, above which the sources will have to be rejected.

Table 4 Parameters Concerning Radioactive Substances

(*Foreword* and *Clause* 4)

Sl No.	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	Method of Test, Ref to Part of IS 14194	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
i)	Radioactive materials:				
	a) Alpha emitters Bq/l, *Max*	0.1	No relaxation	Part 2	—
	b) Beta emitters Bq/l, *Max*	1.0	No relaxation	Part 1	—

NOTE — It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible limit in the absence of alternate source' in col 4, above which the sources will have to be rejected.

COMPLIANCE STATUS
OF
ENVIRONMENTAL CLEARANCE
Stage-II (2x500 MW)

NTPC Limited
SIMHADRI SUPER THERMAL POWER STATION

ENVIRONMENT MANAGEMENT GROUP
NTPC-SIMHADRI (PO)
PIN: 531 020
Andhra Pradesh

As on 31.03.2026

NTPC-SIMHADRI SUPER THERMAL POWER STATION
ENVIRONMENTAL CLEARANCE
Stage – II (2X500 MW)

S.No.	EC Condition	Status of Implementation
i).	No activities in CRZ area shall be taken up without obtaining requisite prior clearance under the provisions of the CRZ notification, 1991.	The CRZ area clearance was obtained from MOEF&CC, vide letter dated 25.06.2008.
ii).	Ash and sulphur content in the coal to be used as fuel shall not exceed 45% and 0.6% respectively.	The ash and sulphur content in the coal are average of 38 % ash and 0.45% sulphur.
iii).	Space provision shall be made for installation of Flue Gas De-sulphurisation (FGD) of requisite efficiency of removal of SO_2, if required at later stage.	As per the latest notification of MoEF&CC dated 30.12.2024 Simhadri STPP is obligated to complete the FGD work by 31.12.2027. However NTPC - Simhadri completed installation of FGD in all its units.
iv).	A bi-flue Stack of 275 m height with exit velocity of at least 22.2. M/sec shall be provided with continuous online monitoring system.	Stacks of 150 mt. has been provided at each unit with FGD. Continuous online stack monitoring facility for measurement of Particulate, SO2 and NOx shall be provided.
v).	High efficiency Electrostatic Precipitators (ESPs) having efficiency of 99.9% shall be installed so as to ensure that particulate emission does not exceed 50 mg/Nm3.	Installed high efficiency Electrostatic Precipitators (ESPs) of efficiency 99.9% are in operation to limit the particulate emission below 50 mg/ Nm^3
vi).	Closed cycle cooling system with natural draft cooling towers shall be provided.	A closed cycle circulating cooling water system using Natural Draft Cooling Towers (NDCT) has been provided.
vii).	Treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. The discharge, if any, into the sea shall be at ambient temperature from the cold side.	Provisions were made to re circulate cooling water blow down and ash pond effluents. The cooling tower blow down is being used significantly for ash transportation. The effluent treatment system comprising of neutralization pit, oil and grease separator, sediment tank, cooling towers etc is provided. The effluents treated adequately and Utilised through CMB. The treated effluent is conforming to the regulatory standards.
viii).	Rain water harvesting should be adopted. Central Ground Water	Rain Water Harvesting structures like recharge well, Contour Built Filters

	Authority/Board shall be consulted for finalization of appropriate rain water harvesting technology within a period of three months from the date of clearance.	with check dams and Rain Water Harvesting Pond is created in Simhadri Plant and Township areas as suggested by Central Ground Water Board. They have suggested to monitoring ground water levels and quality at regular intervals which is being complied with religiously.
ix).	Fly ash shall be collected in dry form and its 100 % utilization shall be achieved within 9 years in accordance with the notification on Fly Ash Utilization SO 763 (E) dated 14th September, 1999 and its amendments made therein from time to time.	The fly ash generated from Simhadri STPS is being sent to silos and is being supplied to ash brick plants, RMCs, cement, and other ash-based industries through transparent bidding process. The united ash and the bottom ash that is collected as a slurry and sent to ash pond. Simhadri Ash utilization is 100% since 2017, and the industry has achieved more than 100% utilization of fly ash. As on FY 2025-26 AU is 105.7 %
x).	Regular monitoring of groundwater including heavy metals shall be undertaken around the ash dyke and the project area to ascertain the change, if any, in the water quality due to leaching of contaminants from ash disposal area.	Monitoring of ground water including heavy metals is being done regularly. The points are selected with the help of Central Ground Water Board directions. Ground Water Monitoring Report enclosed as **Annexure-I.**
xi).	Noise level should be limited to 75 dB (A). For people working in high noise areas, protective devices such as ear plugs etc, shall be provided.	The ambient noise level at plant boundary is well within 75 dB (A). The workers in generator halls and other high noise area are provided with appropriate ear protection devices. Noise Monitoring Report enclosed as **Annexure-II.**
xii).	In lieu of the 25 acres of green belt area to be utilized for the project, green belt shall be developed in an area of 10 acres between coal handling plant and cooling towers of stage-II. Additionally, afforestation shall be carried out in an area of 75 acres outside the plant premises in consultation with the state forest department.	To replace trees that were cut for Stage II units, permission was sought from the Forest Department to afforest 75 acres of land in Totlakonda village instead and plantation in the allocated area is completed. Afforestation in 75 acres of land is completed at Thotlakonda area. Green belt in an area of 10 acres between coal handling plant and cooling towers of Stage-II, has been developed.

xiii).	Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Six monthly reports shall be submitted to this Ministry.	The AAQ monitoring is being done. The locations have been finalized in consultation with SPCB. The monitoring results are submitted regularly as per stipulation. Half-yearly AAQ Monitoring Reports are being submitted regularly. Ambient Air quality Monitoring Report enclosed as **Annexure-III.**
xiv).	For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured.	Adequate number of dust suppression, dust extraction systems are provided in coal handling area including coal stockyard area and other dust prone areas for control of fugitive dust emissions. Water sprinklers are installed at dust prone sites in order to attenuate fugitive dust emission. Conflow dust suppression systems are provided at all transfer points. Simhadri STPP has installed high pressure dust suppression water spray system (Rain guns) in coal yard with mechanical rotators which are working effectively to control the fugitive dust emission from coal yard. Simhadri STPP has installed High pressure water spray guns in all the Stage-I coal piles. 11 No's high-pressure rotating mist spray guns are in place each pile in both Stage-I&II. The total 88 no. of high-pressure rotating water spray rain guns are installed for 8 nos of Coal piles in Stage-I &II. In addition, for Dust Suppression, water nozzle spray System is in place for coal handling area including for Track Hopper and Wagon Tipplers Coal Stockyard water spray system is being used which comprises of fine spray nozzles. Adequate number of Dust suppression (DS) and Dust extraction (DE) systems are installed in coal handling area including coal handling area and other dust prone area for control of fugitive dust emissions. Water sprinklers were also installed at dust prone sites in order to attenuate fugitive dust emission. Dry fog dust suppression

		system is provided at all transfer points.
xv).	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letter is available with the State Pollution control Board/Committee and may also be seen at website of the Ministry of Environment and Forests at http:/www.envfor.nic.in	The information of Environmental Clearance was published in four news papers on 11.08.2007. 1. "Vaarta" on 11.08. 2007 in vernacular language. 2. "The Hindu" on 11.08.2007 in English. 3. "Eeenaadu" on 11.08.2007 in vernacular language. 4. "Deccan Chronicle" on 11.08.2007 in English.
xvi).	A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.	An Environment Management Group (EMG) has been set up at Simhadri TPP. Additional General Manager heads this group. EMG has sufficient trained manpower for environmental monitoring and other environmental related activities to ensure compliance with statutory requirements. It interacts regularly with the State Pollution Control Board. The Environmental laboratory at Simhadri STPP is adequately equipped for monitoring of ambient air quality, stack emission water/effluent quality, etc.
xvii).	Half yearly report on the status of implementation of the conditions and environmental safeguards should be submitted stipulated to the ministry, the Regional Office, CPBC and SPCB.	The Half Yearly Compliance report which are being submitted to RO of MOEF&CC and APPCB/CPCB are uploaded on NTPC web site and can be seen by anyone. Also, the yearly environmental compliance and half yearly compliances are being submitted to statutory authorities on regular basis within stipulated time.
xviii).	Regional Office of the Ministry of Environment & forests located at Bangalore will monitor the implementation of the stipulated conditions. A completed set of	A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information / clarifications submitted

	documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information/ clarifications submitted subsequently to this ministry should be forwarded to the Regional Office for their use during monitoring.	to MOEF&CC have been forwarded on 08.08.2007 to the Regional Office of MOEF&CC at Vijayawada.
xix).	Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. This cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Simhadri STPP has spent Rs.1088.03 crores for Stage-II units for environmental mitigation measures as per the Environmental compliance requirement. The requisite funds for environmental mitigation measures have been included in the project cost. Financial provision stipulated exclusively towards environmental mitigate measures which are being implemented in totality. The total funds earmarked for environmental protection has not been diverted for any other purpose.
xx).	Full cooperation should be extended to the Scientists / Officers from the Ministry / Regional Office of the ministry at Bangalore / the CPCB / the SPCB during monitoring of the project.	Full cooperation is being extended to the Scientists and officers of Regional Office of MOEF&CC by site.
4).	The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.	Noted
5).	The environmental clearance accorded shall be valid for a period of 5 years to the start of production operations by the power plant.	Noted
6).	In case of any deviation or alteration on the proposed project from that submitted to this Ministry for clearance, a fresh	Noted

	reference should be made to the ministry to assess the adequacy of the condition (s) imposed and to incorporate additional environmental protection measures required, if any.	
7).	The above stipulations shall be enforced among others under the Water (Prevention and Control Pollution) Act, 1947, the Air (Prevention and Control of Pollution) Act. 1981, the Environment (Protection) Act, 1986, the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, the public Liability Insurance Act, 1991 and its amendments.	Noted

F. NO. J-13012/8/2009-IA.II(T) Dated 11.11.2020

1.	Details regarding change in source(location of the source, proposed quantity, distance from the power plant and mode of transportation), quality (ash, sulphur, moisture content, calorific value) shall be informed to the ministry and its concerned Regional Office. The quantity of coal transported from each source along with the mode of transportation shall be submitted as a part of EC Compliance report.	NTPC Simhadri sources its coal from Talcher, IB and Singreni mines with Ash percentage ratio between 35%-45%. Sulphur content 0.45% by mass.
2.	The applicable Flue gas emissions standards for Particulate matter , Oxides of Nitrogen and sulphur, Mercury shall be complied in ,line with the ministry notification S.O. 3305(E) dated 07.12.2015 and subsequent emissions. A progress of implementation and its compliance shall be submitted as part of compliance report.	Complied
3.	Ash content in the coal and coal transportation is governed by the	Complied, Coal transportation is done through Railway

	Ministry notification vide S.O. 1561(E) dated 21.05.2020. As far as possible coal transportation should be done by rail/conveyor or other eco friendly modes. However road transportation is allowed on tarpaulin covered Trucks till the railway/conveyor belt infrastructure is made available.	
4.	Details regarding monthly generation, utilization and disposal of fly ash (including bottom ash) shall be submitted to the ministry and its regional Office.	Complied
5.	The 100% Fly ash utilization is to be achieved within 4 years in line with Fly ash notifications dated 14.09.1999, 27.08.2003, 03.11.2009, 25.01.2016 and amended time to time and extant regulation on Fly ash utilization.	Complied

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/37 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.97	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.28	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	459	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	283	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.1	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	86.3	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	86.3	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.31	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	127	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	15.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	5.74	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.25	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.02	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	36.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	19.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	48.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.64	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.08	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

Sv Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/38 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.18	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.03	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	627	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	392	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	4.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.1	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	184	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	184	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	147	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	22.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	11.4	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	13.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	47.2	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	29.6	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	53.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.74	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.19	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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AUTHORIZED SIGNATORY

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/39 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 3** (10.70/MONTHLY)

SOURCE OF COLLECTION : SWAYAMBHUVARAM (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.58	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.63	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	576	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	351	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.01	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	207	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	207	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.48	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	112	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	16.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	3.96	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	10.4	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	64.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	38.2	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	41.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.61	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.18	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No : SV/NTPC-SIM/25-10/40 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.08	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.95	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	728	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	449	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	5.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	239	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	239	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.71	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	153	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	22.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	9.74	45	No relaxation	APHA, 4500 NO^3–B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.81	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.04	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	91.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	33.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	54.9	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.54	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.10	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/41 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 5** (10.70/MONTHLY)

SOURCE OF COLLECTION : KATRINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.88	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.14	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	421	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	259	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	127	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	127	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.39	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	87.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	12.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	0.35	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.49	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	69.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	28.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	31.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.02	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Ref. No : SV/NTPC-SIM/25-10/42 **Dated : 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 6** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	PALAVALASA (BORE WELL)
DATE OF COLLECTION	:	14-10-2025
DATE OF RECEIPT	:	14-10-2025
ANALYSIS STARTING DATE	:	15-10-2025
ANALYSIS COMPLETION DATE	:	18-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.93	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.24	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	916	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	568	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	13.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.02	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	291	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	291	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.58	1.0	1.5	APHA, 4500-FD,

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						24thEd
12	Chloride as Cl	mg/l	197	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	36.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	14.9	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	12.2	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	72.9	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	85.2	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	69.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.37	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.35	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No : SV/NTPC-SIM/25-10/43 **Dated : 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE** – 7 (10.70/MONTHLY)
SOURCE OF COLLECTION	:	ISLAMPETA (BORE WELL)
DATE OF COLLECTION	:	14-10-2025
DATE OF RECEIPT	:	14-10-2025
ANALYSIS STARTING DATE	:	15-10-2025
ANALYSIS COMPLETION DATE	:	18-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.93	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.28	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	561	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	349	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	227	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	227	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.28	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	93.5	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	11.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	25.1	45	No relaxation	APHA, 4500 NO^3–B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.85	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	49.6	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	22.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	35.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.95	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.16	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No : SV/NTPC-SIM/25-10/44 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	7.01	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.86	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	602	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	381	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	< 1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	249	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	249	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.25	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	104	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	18.7	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	5.12	45	No relaxation	APHA, 4500 NO^3 B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.9	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	95.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	58.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	29.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.25	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.14	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/45 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 9** (10.70/MONTHLY)

SOURCE OF COLLECTION : SOMINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.99	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.21	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	598	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	379	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	8.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.01	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	221	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	221	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.44	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	118	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	29.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	3.72	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed

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15	Silica as SiO_2	mg/l	10.8	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	49.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	27.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	40.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.73	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.08	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/46 **Dated : 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPL – 10** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	DEEPANJALI NAGAR PUMP HOUSE (BORE WELL)
DATE OF COLLECTION	:	14-10-2025
DATE OF RECEIPT	:	14-10-2025
ANALYSIS STARTING DATE	:	15-10-2025
ANALYSIS COMPLETION DATE	:	18-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.54	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.49	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	296	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	188	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.1	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	129	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	129	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.12	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	43.7	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	8.61	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	5.04	45	No	APHA, 4500 NO^{3-}B & C,

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					relaxation	24th Ed
15	Silica as SiO_2	mg/l	8.96	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	37.9	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	18.4	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	16.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.13	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Deteced	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/37

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.82	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.1	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	510	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	315	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.1	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	104	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	104	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.37	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	141	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	19.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	6.82	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	10.0	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.04	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	38.6	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	20.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	52.4	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.72	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.10	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/38

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.32	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.4	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	720	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	440	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	6.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.1	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	217	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	217	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.36	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	165	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	27.1	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	13.2	45	No relaxation	APHA, 4500 NO^{3-} B & C, 24th Ed
15	Silica as SiO_2	mg/l	15.6	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	50.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	31.2	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	57.4	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.82	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.21	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072
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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/39

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 3** (10.70/MONTHLY)

SOURCE OF COLLECTION : SWAYAMBHUVARAM (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.71	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.85	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	624	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	390	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.03	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	229	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	229	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.52	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	128	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	20.1	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	4.58	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	12.6	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	67.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	39.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	45.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.76	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.20	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072
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Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/40

Dated : 02-12-2025

ISSUED TO :

M/s. NTPC LIMITED,
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.19	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.2	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	806	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	484	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	8.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	260	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	260	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.88	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	166	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	25.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	11.2	45	No relaxation	APHA, 4500 NO^{3-} B & C, 24th Ed
15	Silica as SiO_2	mg/l	12.3	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.07	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	94.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	35.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	58.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.16	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.13	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/41

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 5** (10.70/MONTHLY)

SOURCE OF COLLECTION : KATRINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.97	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.21	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	460	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	289	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	149	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	149	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.46	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	95.8	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	16.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	0.43	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	10.2	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	73.5	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	30.4	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	36.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.75	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.11	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/42

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 6** (10.70/MONTHLY)

SOURCE OF COLLECTION : PALAVALASA (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.81	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.37	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	980	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	603	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	10.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.01	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	312	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	312	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.64	1.0	1.5	APHA, 4500-FD,

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						24thEd
12	Chloride as Cl	mg/l	211	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	41.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	16.8	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	15.6	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	75.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	89.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	72.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.45	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.40	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/43

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 7** (10.70/MONTHLY)

SOURCE OF COLLECTION : ISLAMPETA (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.43	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.36	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	595	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	367	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	240	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	240	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.33	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	101	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	13.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	26.8	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.2	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	51.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	24.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	38.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.04	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.19	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/44

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	7.25	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.0	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	682	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	433	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	< 1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	281	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	281	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	126	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	23.4	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	658	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	13.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	98.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	60.6	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	32.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	4.79	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.18	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/45

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 9** (10.70/MONTHLY)

SOURCE OF COLLECTION : SOMINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.11	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.25	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	650	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	414	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	10.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.02	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	251	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	251	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.52	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	130	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	34.8	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	4.66	45	No relaxation	APHA, 4500 NO_3^- B & C, 24th Ed

15	Silica as SiO_2	mg/l	12.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	51.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	29.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	44.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.58	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.11	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/37 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.53	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.91	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	658	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	409	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	153	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	153	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.58	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	179	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	14.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	4.96	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	12.4	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	57.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	31.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	68.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.41	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.07	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/38 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.79	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.63	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	471	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	298	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	129	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	129	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.21	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	109	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	18.4	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	15.8	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.10	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	39.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	20.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	40.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.51	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.11	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/39 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 3** (10.70/MONTHLY)

SOURCE OF COLLECTION : SWAYAMBHUVARAM (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.51	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.69	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	705	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	429	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.01	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	189	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	189	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.74	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	151	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	26.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	6.10	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	14.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	92.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	57.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	59.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.97	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.30	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/40 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.91	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.52	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	449	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	287	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	2.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	135	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	135	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.16	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	93.8	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	16.2	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	8.79	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	10.4	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.05	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	63.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	21.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	34.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.93	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/41 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 5** (10.70/MONTHLY)

SOURCE OF COLLECTION : KATRINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.93	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.72	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	621	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	382	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	3.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	207	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	207	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.74	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	112	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	23.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	1.29	45	No relaxation	APHA, 4500 NO^3–B & C, 24th Ed
15	Silica as SiO_2	mg/l	13.4	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	102	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	57.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	41.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.15	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.22	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/42 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 6** (10.70/MONTHLY)

SOURCE OF COLLECTION : PALAVALASA (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.39	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.48	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	823	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	497	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	6.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.03	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	253	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	253	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.84	1.0	1.5	APHA, 4500-FD,

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						24thEd
12	Chloride as Cl	mg/l	184	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	29.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	11.5	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.20	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	49.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	63.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	65.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.19	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.24	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

Enviro Labs & Research Pvt. Ltd. VSP-12 SV

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

Ref. No : SV/NTPC-SIM/25-12/43 **Dated : 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 7** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	ISLAMPETA (BORE WELL)
DATE OF COLLECTION	:	15-12-2025
DATE OF RECEIPT	:	15-12-2025
ANALYSIS STARTING DATE	:	16-12-2025
ANALYSIS COMPLETION DATE	:	20-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.18	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.93	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	816	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	483	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	293	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	293	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.48	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	165	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	9.41	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	30.2	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	14.6	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	29.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	16.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	62.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.53	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.30	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Ref. No : SV/NTPC-SIM/25-12/44 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	6.98	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.42	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	563	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	349	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	< 1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	193	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	193	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.18	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	87.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	15.1	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	43.7	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.91	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	72.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	46.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	28.9	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.02	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.14	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/45 **Dated : 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 9** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	SOMINAYUDUPALEM (BORE WELL)
DATE OF COLLECTION	:	15-12-2025
DATE OF RECEIPT	:	15-12-2025
ANALYSIS STARTING DATE	:	16-12-2025
ANALYSIS COMPLETION DATE	:	20-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.81	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.63	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	427	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	261	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	13.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	96.7	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	96.7	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	105	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	21.8	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	2.97	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed

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15	Silica as SiO_2	mg/l	8.96	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	29.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	15.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	38.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.07	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.08	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/46 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPL – 10** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEEPANJALI NAGAR PUMP HOUSE (BORE WELL)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 20-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.21	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.18	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	297	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	191	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	107	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	107	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.09	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	39.2	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	16.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	9.14	45	No	APHA, 4500 NO^{3-}B & C,

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					relaxation	24th Ed
15	Silica as SiO_2	mg/l	11.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	53.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	22.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	14.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.08	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.15	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Deteced	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/37 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.83	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.04	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	712	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	433	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	2.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	196	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	196	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.72	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	157	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	23.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	9.71	45	No relaxation	APHA, 4500 NO^{3-} B & C, 24th Ed
15	Silica as SiO_2	mg/l	14.3	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	96.2	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	42.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	56.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.29	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.05	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/38 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.96	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.48	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	896	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	491	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	161	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	161	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.53	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	209	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	36.1	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	29.4	45	No relaxation	APHA, 4500 NO^{3-} B & C, 24th Ed
15	Silica as SiO_2	mg/l	10.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	63.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	25.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	72.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.28	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.05	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/39 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 3** (10.70/MONTHLY)

SOURCE OF COLLECTION : SWAYAMBHUVARAM (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.15	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.86	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	877	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	536	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.07	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	227	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	227	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.44	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	198	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	43.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	9.52	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.8	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	112	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	49.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	69.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.53	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.24	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/40 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.30	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.24	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	407	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	256	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	109	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	109	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.10	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	82.7	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	24.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	13.2	45	No relaxation	APHA, 4500 NO^3 B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.71	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.02	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	49.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	13.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	29.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.08	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.05	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/41 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 5** (10.70/MONTHLY)

SOURCE OF COLLECTION : KATRINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specification		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.98	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.34	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	821	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	498	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	5.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	249	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	249	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.41	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	156	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	30.4	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	2.71	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	14.6	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	151	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	72.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	58.4	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.93	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.32	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/42 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 6** (10.70/MONTHLY)

SOURCE OF COLLECTION : PALAVALASA (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.94	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.12	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	1149	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	712	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	11.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.05	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	302	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	302	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.98	1.0	1.5	APHA, 4500-FD,

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						24thEd
12	Chloride as Cl	mg/l	259	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	47.2	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	29.6	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	12.5	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	94.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	116	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	102	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.58	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.36	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/43

Dated : 06-02-2026

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 7** (10.70/MONTHLY)

SOURCE OF COLLECTION : ISLAMPETA (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.90	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.26	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	573	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	359	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	186	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	186	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.35	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	124	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	7.19	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	24.9	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.70	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	48.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	19.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	45.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.14	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.21	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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Ref. No : SV/NTPC-SIM/26-01/44 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	7.17	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.83	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	785	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	491	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	< 1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	236	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	236	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.31	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	119	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	23.7	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	61.9	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.7	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	112	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	69.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	47.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	3.54	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/45 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 9** (10.70/MONTHLY)

SOURCE OF COLLECTION : SOMINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	8.03	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.49	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	510	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	315	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	5.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	144	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	144	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.53	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	114	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	16.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	5.81	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed

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15	Silica as SiO_2	mg/l	13.1	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	54.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	22.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	42.1	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.86	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.06	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/46 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPL – 10** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEEPANJALI NAGAR PUMP HOUSE (BORE WELL)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.88	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.61	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	488	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	307	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	203	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	203	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.46	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	71.5	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	21.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	15.8	45	No	APHA, 4500 NO^{3-}B & C,

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					relaxation	24th Ed
15	Silica as SiO_2	mg/l	8.93	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	68.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	29.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	25.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.13	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.21	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Deteced	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/37 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.28	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.63	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	529	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	316	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	139	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	139	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.47	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	114	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	16.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	6.98	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.5	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	63.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	27.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	43.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.18	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.07	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/38 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.91	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.93	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	634	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	378	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	109	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	109	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.34	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	157	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	22.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	18.7	45	No relaxation	APHA, 4500 NO^3 B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.10	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	48.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	16.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	59.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.19	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.03	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/39 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 3** (10.70/MONTHLY)

SOURCE OF COLLECTION : SWAYAMBHUVARAM (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.88	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.29	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	841	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	496	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.05	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	174	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	174	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.28	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	205	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	32.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	7.96	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	13.2	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	96.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	38.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	69.5	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.53	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.24	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/40 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.97	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.16	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	319	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	187	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	72.4	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	72.4	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.07	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	69.4	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	13.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	8.12	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.86	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	0.01	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	28.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	9.74	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	26.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.84	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.03	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Ref. No : SV/NTPC-SIM/26-02/41 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 5** (10.70/MONTHLY)

SOURCE OF COLLECTION : KATRINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.72	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.49	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	692	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	397	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	2.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	198	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	198	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.22	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	119	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	23.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	4.15	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.9	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	127	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	54.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	43.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.24	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.23	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Ref. No : SV/NTPC-SIM/26-02/42 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 6** (10.70/MONTHLY)

SOURCE OF COLLECTION : PALAVALASA (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.11	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.96	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	914	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	539	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	4.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.02	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	218	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	218	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.49	1.0	1.5	APHA, 4500-FD,

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						24thEd
12	Chloride as Cl	mg/l	198	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	42.5	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	21.8	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.72	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	73.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	91.5	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	68.3	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.97	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.25	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/43 **Dated : 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 7** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	ISLAMPETA (BORE WELL)
DATE OF COLLECTION	:	16-02-2026
DATE OF RECEIPT	:	17-02-2026
ANALYSIS STARTING DATE	:	17-02-2026
ANALYSIS COMPLETION DATE	:	21-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.85	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.09	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	504	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	296	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	147	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	147	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.22	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	109	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	5.14	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	16.3	45	No relaxation	APHA, 4500 NO^3 B & C, 24th Ed
15	Silica as SiO_2	mg/l	7.81	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	32.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	11.4	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	38.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.97	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.14	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/44 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	7.59	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.06	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	812	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	477	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	2.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	253	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	253	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.42	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	135	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	18.7	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	47.2	45	No relaxation	APHA, 4500 NO^{3-} B & C, 24th Ed
15	Silica as SiO_2	mg/l	13.9	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	86.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	42.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	51.9	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	2.14	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.06	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No : SV/NTPC-SIM/26-02/45 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 9** (10.70/MONTHLY)

SOURCE OF COLLECTION : SOMINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.94	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	1.12	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	427	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	258	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	116	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	116	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.39	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	92.7	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	11.4	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	3.97	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed

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15	Silica as SiO_2	mg/l	10.8	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	38.4	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	13.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	34.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.04	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.03	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/46 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPL – 10** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEEPANJALI NAGAR PUMP HOUSE (BORE WELL)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 21-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.22	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.29	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	503	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	296	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	188	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	188	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	87.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	19.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	11.4	45	No	APHA, 4500 NO^{3-}B & C,

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					relaxation	24th Ed
15	Silica as SiO_2	mg/l	7.15	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	47.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	18.7	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	21.9	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.08	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.13	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Deteced	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/37 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 1** (10.70/MONTHLY)

SOURCE OF COLLECTION : PITTAVANIPALEM (OPEN WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.71	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.98	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/cm	427	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	263	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	116	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	116	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	98.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	11.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	4.81	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.50	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	47.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	18.6	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	37.3	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.10	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coliform in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/38 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 2** (10.70/MONTHLY)

SOURCE OF COLLECTION : DASARIPETA (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specification		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.52	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.48	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	491	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	297	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	96.2	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	96.2	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.22	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	127	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	17.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	14.3	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.60	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	39.6	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	11.8	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	47.3	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.14	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.05	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/39 **Dated : 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 3** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	SWAYAMBHUVARAM (BORE WELL)
DATE OF COLLECTION	:	16-03-2026
DATE OF RECEIPT	:	16-03-2026
ANALYSIS STARTING DATE	:	17-03-2026
ANALYSIS COMPLETION DATE	:	20-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.63	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.58	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	657	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	394	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.03	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	126	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	126	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.20	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	174	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	25.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

14	Nitrate as NO_3	mg/l	11.7	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.70	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	58.3	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	26.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	59.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.38	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.16	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

Note : All the above parameters as tested as per APHA Method 24th Edition.

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/40 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 4** (10.70/MONTHLY)

SOURCE OF COLLECTION : PEDDAPALEM (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.09	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.28	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	415	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	254	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	88.3	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	88.3	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.12	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	98.7	250	1000	APHA, 4500-Cl B, 24th Ed

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13	Sulphate as SO_4	mg/l	16.3	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	11.7	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.41	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	42.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	15.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	38.4	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.50	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.02	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/41 **Dated : 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**GROUND WATER SAMPLE – 5** (10.70/MONTHLY)
SOURCE OF COLLECTION	:	KATRINAYUDUPALEM (BORE WELL)
DATE OF COLLECTION	:	16-03-2026
DATE OF RECEIPT	:	16-03-2026
ANALYSIS STARTING DATE	:	17-03-2026
ANALYSIS COMPLETION DATE	:	20-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.28	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.29	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	537	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	319	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	147	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	147	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.15	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	106	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	18.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	2.71	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	9.86	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	91.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	36.9	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	39.2	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.71	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.09	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/42 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 6** (10.70/MONTHLY)

SOURCE OF COLLECTION : PALAVALASA (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.63	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.38	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	637	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	381	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	0.01	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	163	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	163	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.28	1.0	1.5	APHA, 4500-FD,

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						24th Ed
12	Chloride as Cl	mg/l	134	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	28.9	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	15.3	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	8.72	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	51.9	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	70.3	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	48.6	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.82	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.19	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Ref. No : SV/NTPC-SIM/26-03/43 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 7** (10.70/MONTHLY)

SOURCE OF COLLECTION : ISLAMPETA (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.58	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.72	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	393	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	228	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	112	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	112	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.16	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	87.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	3.81	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed

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14	Nitrate as NO_3	mg/l	13.7	45	No relaxation	APHA, 4500 NO^3—B & C, 24th Ed
15	Silica as SiO_2	mg/l	6.71	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	23.9	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	8.12	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	29.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.62	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.05	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/44 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE- 8** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEVADA (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
	pH	-	7.21	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.88	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	597	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	361	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	4.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	198	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	198	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.29	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	105	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	13.8	200	400	APHA, 4500-SO_4^{2-} E,

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						24th Ed
14	Nitrate as NO_3	mg/l	32.7	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed
15	Silica as SiO_2	mg/l	11.4	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	63.7	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	38.1	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	34.7	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	1.61	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.04	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No : SV/NTPC-SIM/26-03/45 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPLE – 9 (10.70/MONTHLY)**

SOURCE OF COLLECTION : SOMINAYUDUPALEM (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	7.15	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.97	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	318	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	194	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	97.3	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	97.3	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.24	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	69.7	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	8.50	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	2.81	45	No relaxation	APHA, 4500 NO^{3-}B & C, 24th Ed

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15	Silica as SiO_2	mg/l	8.71	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	27.1	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	9.52	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	26.8	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.53	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.02	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Detected	-	-	IS - 1622

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/46 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **GROUND WATER SAMPL – 10** (10.70/MONTHLY)

SOURCE OF COLLECTION : DEEPANJALI NAGAR PUMP HOUSE (BORE WELL)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	Test Parameter	Units	Result	IS 10500:2012 Specifications		Test Method
				Acceptable Limit	Permissible Limit	
1	pH	-	6.90	6.5-8.5	No relaxation	APHA, 4500-H+B, 24th Ed.
2	Turbidity	NTU	0.16	1.0	5.0	APHA, 2130-B, 24th Ed.
3	Conductivity	µs/Cm	359	-	-	APHA, 2510-B, 24th Ed
4	Total Dissolved Solids	mg/l	217	500	2000	APHA, 2540-C, 24th Ed.
5	Total Suspended Solids	mg/l	<1.0	-	-	APHA, 2540-D, 24th Ed
6	Phosphate as PO_4	mg/l	<0.2	-	-	APHA 4500 PC, 24th Ed
7	Oil & Grease	mg/l	<1.0	-	-	APHA, 5520-D, 5-38, 24th Ed
8	Total Alkalinity as $CaCO_3$	mg/l	139	200	600	APHA, 2320-B, 24th Ed.
9	M-Alkalinity as $CaCO_3$	mg/l	139	-	-	APHA, 2320-B, 24th Ed
10	P-Alkalinity as $CaCO_3$	mg/l	Nil	-	-	APHA, 2320-B, 24th Ed
11	Fluoride as F	mg/l	0.15	1.0	1.5	APHA, 4500-FD, 24th Ed
12	Chloride as Cl	mg/l	58.3	250	1000	APHA, 4500-Cl B, 24th Ed
13	Sulphate as SO_4	mg/l	12.7	200	400	APHA, 4500-SO_4^{2-} E, 24th Ed
14	Nitrate as NO_3	mg/l	9.32	45	No	APHA, 4500 NO^{3-}B & C,

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					relaxation	24th Ed
15	Silica as SiO_2	mg/l	5.82	-	-	APHA4500 SiO_2 C
16	Manganese as Mn	mg/l	<0.005	0.1	0.3	APHA, 3500-Mg B, 24th Ed
17	Calcium Hardness as $CaCO_3$	mg/l	35.8	-	-	APHA – 3500B, 24th Ed.
18	Magnesium Hardness as $CaCO_3$	mg/l	11.2	-	-	APHA – 3500B, 24th Ed.
19	Sodium as Na	mg/l	23.3	-	-	APHA, 3500-Na B, 24th Ed
20	Potassium as K	mg/l	0.05	-	-	APHA, 3500-KB, 24th Ed
21	Total Iron as Fe	mg/l	0.02	0.3	No relaxation	APHA, 3120-B, 24th Ed
22	Phenolic Compounds as C_6H_5OH	mg/l	<0.001	0.001	0.002	APHA, 5530-C, 24th Ed
23	Different Coli form in Bacteria	CFU/100 ml	Not Deteced	-	-	IS - 1622

CHECKED BY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-10/48 **Dated: 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **NOISE LEVEL MONITORING** (10.50/MONTHLY)

DATE OF MONITORING : 24-10-2025

DURATION OF MONITORING : 10 Minutes at Each Location (Day & Night)

PARAMETERS REQUIRED : Noise Levels at Source – Day & Night

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

Sr.No	Sources	Noise Levels dB (A)			
		Day	(Sampling Time)	Night	(Sampling Time)
INSIDE PLANT PREMISES					
1	NEAR TRACK HOPPER	69.3	(10:10-10:20)	62.7	(22:00-22:10)
2	NEAR CRUSHER HOUSE	73.1	(10:30-10:40)	66.5	(22:25-22:40)
3	NEAR ID FANS AREA	65.9	(10:50-11:00)	58.3	(22:50-23:00)
4	NEAR FD FANS AREA	71.6	(11:15-11:25)	65.8	(23:15-23:30)
5	NEAR PA FANS AREA	72.4	(11:40-11:50)	67.1	(24:00-24:10)
6	NEAR TURBINE AREA	64.9	(12:05-12:15)	57.3	(24:25-24:35)
7	NEAR BFP AREA	69.7	(12:30-12:40)	62.5	(24:50-01:00)
8	NEAR CW PUMP AREA	70.4	(12:55-13:05)	64.9	(01:15-01:25)
9	NEAR COMPRESSOR HOUSE	61.5	(13:20-13:30)	55.8	(01:40-01:50)
10	NEAR MILL AREA	59.7	(13:45-13:55)	52.6	(02:05-02:15)
STANDARDS (dB)		**75.0**		**70.0**	

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-10/49 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**NOISE LEVEL MONITORING** (10.50/MONTHLY)
DATE OF MONITORING	:	24-10-2025
DURATION OF MONITORING	:	10 Minutes at Each Location (Day & Night)
PARAMETERS REQUIRED	:	Noise Levels at Source – Day & Night
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

Sr.No	Sources	Noise Levels dB (A)			
		Day	(Sampling Time)	Night	(Sampling Time)
OUTSIDE PLANT PREMISES					
11	SOMUNAIDUPALEM	40.7	(10:25-10:40)	33.8	(22:10-22:30)
12	SWAYAMBHUVARAM	45.3	(10:50-11:00)	39.6	(23:00-23:10)
13	KALPAKA	47.9	(11:20-11:30)	41.3	(23:40-23:50)
14	DEVADA	39.8	(11:50-12:00)	32.7	(24:20-24:30)
15	RAVADA	49.6	(12:20-12:30)	42.5	(01:00-01:10)
16	NUNAPARTHI	51.3	(12:50-13:00)	46.2	(01:40-01:50)
17	VADACHEEPURAPALLI	44.7	(13:30-13:40)	38.9	(02:20-:02:30)
18	DALAIPALEM	50.6	(14:00-14:10)	44.1	(03:00-03:10)
19	PARAVADA JUNCTION	69.2	(14:30-14:40)	62.7	(03:40-03:50)
20	NTPC HOSPITAL	52.1	(15:00-15:10)	45.8	(04:20-04:30)
CPCB STANDARD		**75.0**		**70.0**	

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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Ref. No: SV/NTPC-SIM/25-12/48 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**NOISE LEVEL MONITORING** (10.50/MONTHLY)
DATE OF MONITORING	:	18-12-2025
DURATION OF MONITORING	:	10 Minutes at Each Location (Day & Night)
PARAMETERS REQUIRED	:	Noise Levels at Source – Day & Night
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

Sr.No	Sources	Noise Levels dB (A)			
		Day	(Sampling Time)	Night	(Sampling Time)
INSIDE PLANT PREMISES					
1	NEAR TRACK HOPPER	64.5	(10:00-10:10)	57.1	(22:10-22:20)
2	NEAR CRUSHER HOUSE	69.1	(10:25-10:35)	62.7	(22:35-22:45)
3	NEAR ID FANS AREA	66.3	(10:50-11:00)	60.8	(23:00-23:10)
4	NEAR FD FANS AREA	71.8	(11:15-11:25)	65.3	(23:25-23:35)
5	NEAR PA FANS AREA	72.5	(11:40-11:50)	66.9	(23:50-24:00)
6	NEAR TURBINE AREA	64.7	(12:05-12:15)	58.2	(24:15-24:25)
7	NEAR BFP AREA	66.5	(12:30-12:40)	59.7	(24:40-24:50)
8	NEAR CW PUMP AREA	69.7	(12:55-13:05)	63.4	(01:05-01:15)
9	NEAR COMPRESSOR HOUSE	62.4	(13:20-13:30)	53.8	(01:30-01:40)
10	NEAR MILL AREA	60.8	(13:45-13:55)	54.1	(01:55-02:05)
STANDARDS (dB)		**75.0**		**70.0**	

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-12/49 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**NOISE LEVEL MONITORING** (10.50/MONTHLY)
DATE OF MONITORING	:	18-12-2025
DURATION OF MONITORING	:	10 Minutes at Each Location (Day & Night)
PARAMETERS REQUIRED	:	Noise Levels at Source – Day & Night
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

Sr.No	Sources	Noise Levels dB (A)			
		Day	(Sampling Time)	Night	(Sampling Time)
OUTSIDE PLANT PREMISES					
11	SOMUNAIDUPALEM	42.7	(10:00-10:10)	35.9	(22:10-22:20)
12	SWAYAMBHUVARAM	45.3	(10:40-10:50)	39.1	(22:50-23:00)
13	KALPAKA	48.1	(11:20-11:30)	42.7	(23:30-23:40)
14	DEVADA	39.6	(11:50-12:00)	33.4	(24:00-24:10)
15	RAVADA	50.2	(12:20-12:30)	42.9	(24:30-24:40)
16	NUNAPARTHI	47.9	(12:50-13:00)	40.1	(01:00-01:10)
17	VADACHEEPURAPALLI	39.6	(13:30-13:40)	32.7	(01:40-:01:50)
18	DALAIPALEM	44.5	(14:00-14:10)	38.9	(02:10-02:30)
19	PARAVADA JUNCTION	61.2	(14:30-14:40)	55.6	(02:50-03:00)
20	NTPC HOSPITAL	47.7	(15:00-15:10)	41.2	(03:20-03:40)
CPCB STANDARD		**75.0**		**70.0**	

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Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/26-01/48 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**NOISE LEVEL MONITORING** (10.50/MONTHLY)
DATE OF MONITORING	:	17-01-2026
DURATION OF MONITORING	:	10 Minutes at Each Location (Day & Night)
PARAMETERS REQUIRED	:	Noise Levels at Source – Day & Night
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

Sr.No	Sources	Noise Levels dB (A)			
		Day	(Sampling Time)	Night	(Sampling Time)
INSIDE PLANT PREMISES					
1	NEAR TRACK HOPPER	66.1	(10:00-10:10)	60.3	(22:10-22:20)
2	NEAR CRUSHER HOUSE	70.8	(10:25-10:35)	64.9	(22:35-22:45)
3	NEAR ID FANS AREA	64.3	(10:50-11:00)	58.1	(23:00-23:10)
4	NEAR FD FANS AREA	69.5	(11:15-11:25)	63.7	(23:25-23:35)
5	NEAR PA FANS AREA	71.2	(11:40-11:50)	65.3	(23:50-24:00)
6	NEAR TURBINE AREA	60.9	(12:05-12:15)	55.8	(24:15-24:25)
7	NEAR BFP AREA	63.7	(12:30-12:40)	57.9	(24:40-24:50)
8	NEAR CW PUMP AREA	68.1	(12:55-13:05)	61.5	(01:05-01:15)
9	NEAR COMPRESSOR HOUSE	59.6	(13:20-13:30)	52.7	(01:30-01:40)
10	NEAR MILL AREA	63.8	(13:45-13:55)	57.4	(01:55-02:05)
STANDARDS (dB)		**75.0**		**70.0**	

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/26-01/49 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**NOISE LEVEL MONITORING** (10.50/MONTHLY)
DATE OF MONITORING	:	17-01-2026
DURATION OF MONITORING	:	10 Minutes at Each Location (Day & Night)
PARAMETERS REQUIRED	:	Noise Levels at Source – Day & Night
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

Sr.No	Sources	Noise Levels dB (A)			
		Day	(Sampling Time)	Night	(Sampling Time)
OUTSIDE PLANT PREMISES					
11	SOMUNAIDUPALEM	49.3	(10:00-10:10)	38.6	(22:10-22:20)
12	SWAYAMBHUVARAM	47.8	(10:40-10:50)	40.5	(22:50-23:00)
13	KALPAKA	53.1	(11:20-11:30)	46.9	(23:30-23:40)
14	DEVADA	45.7	(11:50-12:00)	37.9	(24:00-24:10)
15	RAVADA	52.4	(12:20-12:30)	39.6	(24:30-24:40)
16	NUNAPARTHI	44.9	(12:50-13:00)	36.2	(01:00-01:10)
17	VADACHEEPURAPALLI	41.6	(13:30-13:40)	35.8	(01:40-:01:50)
18	DALAIPALEM	43.1	(14:00-14:10)	37.5	(02:10-02:30)
19	PARAVADA JUNCTION	68.9	(14:30-14:40)	60.2	(02:50-03:00)
20	NTPC HOSPITAL	54.7	(15:00-15:10)	43.6	(03:20-03:40)
CPCB STANDARD		75.0		70.0	

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/26-01/62 **Date: 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **NOISE LEVEL MONITORING** (10.60/Half Yearly)

DATE OF MONITORING : 17-01-2026

PARAMETERS REQUIRED : Noise Levels at Source – 24 hrs

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

Sr.No	Sources	Noise Levels dB (A)							
		L max	L min	L_{10}	L_{50}	L_{90}	Ld	Ln	Ldn
OUTSIDE PLANT PREMISES									
1.	SOMUNAIDUPALEM	53.8	45.9	51.6	49.3	41.9	50.8	40.6	51.9
2.	SWAYAMBHUVARAM	49.6	41.3	48.1	47.6	45.7	55.2	46.1	55.8
3.	KALPAKA	54.3	47.8	52.9	52.2	43.6	51.9	43.5	52.1
4.	DEVADA	57.1	49.5	53.2	54.7	49.6	54.7	48.8	53.6
5.	RAVADA	47.9	41.6	44.7	43.9	42.1	49.6	42.5	48.1
	INDUSTRIAL STANDARDS	-	-	-	-	-	**75**	**70**	-

Note: Day time shall mean from 6.00 am to 10.00 pm.
Night time shall mean from 10.00 p.m. to 6.00 a.m.

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/26-01/63 **Date: 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **NOISE LEVEL MONITORING** (10.60/Half Yearly)

DATE OF MONITORING : 19-01-2026

PARAMETERS REQUIRED : Noise Levels at Source – 24 hrs

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

Sr.No	Sources	Noise Levels dB (A)							
		Lmax	Lmin	L_{10}	L_{50}	L_{90}	Ld	Ln	Ldn
OUTSIDE PLANT PREMISES									
6	NUNAPARTHI	60.2	49.7	59.6	58.1	48.3	54.7	46.1	55.9
7	VADACHEEPURAPALLI	63.5	51.4	60.9	59.6	47.5	49.3	43.5	47.2
8	DALAIPALEM	57.1	48.9	55.3	52.7	40.9	45.6	40.9	43.7
9	PARAVADA JUNCTION	70.4	62.7	65.8	63.1	55.9	56.1	49.7	52.8
10	NTPC HOSPITAL	53.8	45.3	49.1	47.5	43.2	59.4	47.6	57.3
	INDUSTRIAL STANDARDS	-	-	-	-	-	**75**	**70**	-

Note: Day time shall mean from 6.00 am to 10.00 pm.
Night time shall mean from 10.00 p.m. to 6.00 a.m.

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/26-02/48 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**NOISE LEVEL MONITORING** (10.50/MONTHLY)
DATE OF MONITORING	:	18-02-2026
DURATION OF MONITORING	:	10 Minutes at Each Location (Day & Night)
PARAMETERS REQUIRED	:	Noise Levels at Source – Day & Night
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

Sr.No	Sources	Noise Levels dB (A)			
		Day	(Sampling Time)	Night	(Sampling Time)
INSIDE PLANT PREMISES					
1	NEAR TRACK HOPPER	70.2	(10:00-10:10)	63.9	(22:10-22:20)
2	NEAR CRUSHER HOUSE	72.5	(10:25-10:35)	66.7	(22:35-22:45)
3	NEAR ID FANS AREA	65.9	(10:50-11:00)	60.3	(23:00-23:10)
4	NEAR FD FANS AREA	68.1	(11:15-11:25)	62.5	(23:25-23:35)
5	NEAR PA FANS AREA	66.8	(11:40-11:50)	60.1	(23:50-24:00)
6	NEAR TURBINE AREA	63.2	(12:05-12:15)	57.8	(24:15-24:25)
7	NEAR BFP AREA	65.5	(12:30-12:40)	59.3	(24:40-24:50)
8	NEAR CW PUMP AREA	64.7	(12:55-13:05)	58.9	(01:05-01:15)
9	NEAR COMPRESSOR HOUSE	56.1	(13:20-13:30)	50.4	(01:30-01:40)
10	NEAR MILL AREA	67.9	(13:45-13:55)	60.1	(01:55-02:05)
STANDARDS (dB)		**75.0**		**70.0**	

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/26-02/49 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**NOISE LEVEL MONITORING** (10.50/MONTHLY)
DATE OF MONITORING	:	18-02-2026
DURATION OF MONITORING	:	10 Minutes at Each Location (Day & Night)
PARAMETERS REQUIRED	:	Noise Levels at Source – Day & Night
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

Sr.No	Sources	Noise Levels dB (A)			
		Day	(Sampling Time)	Night	(Sampling Time)
OUTSIDE PLANT PREMISES					
11	SOMUNAIDUPALEM	45.8	(10:00-10:10)	36.2	(22:10-22:20)
12	SWAYAMBHUVARAM	49.3	(10:40-10:50)	43.8	(22:50-23:00)
13	KALPAKA	51.7	(11:20-11:30)	45.6	(23:30-23:40)
14	DEVADA	42.1	(11:50-12:00)	35.9	(24:00-24:10)
15	RAVADA	44.3	(12:20-12:30)	37.2	(24:30-24:40)
16	NUNAPARTHI	40.5	(12:50-13:00)	34.7	(01:00-01:10)
17	VADACHEEPURAPALLI	39.7	(13:30-13:40)	33.5	(01:40-:01:50)
18	DALAIPALEM	41.8	(14:00-14:10)	35.4	(02:10-02:30)
19	PARAVADA JUNCTION	70.2	(14:30-14:40)	64.7	(02:50-03:00)
20	NTPC HOSPITAL	61.5	(15:00-15:10)	53.8	(03:20-03:40)
CPCB STANDARD		**75.0**		**70.0**	

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AUTHORIZED SIGNATORY

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-10/01 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DEVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	06-10-2025 (10:40) Hr	07-10-2025 (10:40) Hr	43.5	15.9	11.4	10.1
2	21-10-2025 (10:10) Hr	22-10-2025 (10:10) Hr	49.1	27.6	13.7	11.9
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-10/02 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**RAVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	09-10-2025 (10:00) Hr	10-10-2025 (10:00) Hr	50.4	16.7	10.9	9.10
2	25-10-2025 (10:30) Hr	26-10-2025 (10:30) Hr	53.7	18.1	12.6	11.3
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-10/03 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**PITTAVANIPALEM VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	08-10-2025 (10:25) Hr	09-10-2025 (10:25) Hr	41.9	13.5	11.2	9.58
2	24-10-2025 (09:55) Hr	25-10-2025 (09:55) Hr	45.2	15.8	14.6	12.9
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-10/04 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DASARIPETA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	07-10-2025 (10:15) Hr	08-10-2025 (10:15) Hr	52.7	19.3	14.1	13.7
2	23-10-2025 (10:50) Hr	24-10-2025 (10:50) Hr	44.3	16.5	12.6	10.1
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-10/05 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
DATE OF COLLECTION& TIME	:	15-10-2025 @ 10:05 hr
END DATE OF SAMPLING &TIME	:	16-10-2025 @ 10:05 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**KALAPAKA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	47.9	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	16.3	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	11.8	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	9.50	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.21	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.4	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/25-10/06 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
DATE OF COLLECTION & TIME	:	17-10-2025 @ 09:45 hr
END DATE OF SAMPLING & TIME	:	18-10-2025 @ 09:45 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**R & D Buildings**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	58.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	21.9	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.1	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	16.5	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.30	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	11.4	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/25-10/07 **Dated: 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	OCTOBER'2025
DATE OF COLLECTION& TIME	:	16-10-2025 @ 09:50 hr
END DATE OF SAMPLING &TIME	:	17-10-2025 @ 09:50 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**BBPS Deepanjali Nagar**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	49.6	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	18.1	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	10.5	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	12.9	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.24	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	9.20	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/25-11/01

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **DEVADA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	06-11-2025 (10:00) Hr	07-11-2025 (10:00) Hr	46.3	17.5	12.8	11.4
2	21-11-2025 (10:35) Hr	22-11-2025 (10:35) Hr	52.6	29.1	14.5	12.8
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-11/02

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **RAVADA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	10-11-2025 (09:40) Hr	11-11-2025 (09:40) Hr	54.7	18.9	11.5	10.3
2	25-11-2025 (10:10) Hr	26-11-2025 (10:10) Hr	57.9	21.5	13.2	12.8
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-11/03

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **PITTAVANIPALEM VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	08-11-2025 (10:05) Hr	09-11-2025 (10:05) Hr	45.8	15.2	12.7	10.8
2	24-11-2025 (10:50) Hr	25-11-2025 (10:50) Hr	49.6	18.1	15.9	13.4
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-11/04

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **DASARIPETA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	07-11-2025 (10:20) Hr	08-11-2025 (10:20) Hr	55.3	21.2	15.7	14.9
2	22-11-2025 (10:10) Hr	23-11-2025 (10:10) Hr	48.7	19.1	13.4	11.6
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-11/05

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

DATE OF COLLECTION& TIME : 15-11-2025 @ 10:45 hr

END DATE OF SAMPLING &TIME : 16-11-2025 @ 10:45 hr

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3

DURATION OF SAMPLING : 24 HRS

LOCATION : **KALAPAKA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	51.5	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	18.7	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	12.9	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	10.6	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.25	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	11.2	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by CPCB - MoEF&CC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-11/06

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

DATE OF COLLECTION & TIME : 13-11-2025 @ 10:00 hr

END DATE OF SAMPLING & TIME : 14-11-2025 @ 10:00 hr

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3

DURATION OF SAMPLING : 24 HRS

LOCATION : **R & D Buildings**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	62.7	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	23.5	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	15.3	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	17.8	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.34	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	12.2	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Sv Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-11/07

Dated: 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)

MONTH OF MONITORING : NOVEMBER'2025

DATE OF COLLECTION& TIME : 14-11-2025 @ 10:55 hr

END DATE OF SAMPLING &TIME : 15-11-2025 @ 10:55 hr

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3

DURATION OF SAMPLING : 24 HRS

LOCATION : **BBPS Deepanjali Nagar**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	52.8	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	20.6	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	11.3	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	13.7	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.28	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.5	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/25-12/01 **Dated: 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : DECEMBER'2025

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **DEVADA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	06-12-2025 (10:50) Hr	07-12-2025 (10:50) Hr	40.7	15.9	14.6	12.9
2	20-12-2025 (10:00) Hr	21-12-2025 (10:00) Hr	49.2	18.1	16.8	13.5
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-12/02 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**RAVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	10-12-2025 (09:55) Hr	11-12-2025 (09:55) Hr	50.3	16.7	13.4	11.8
2	24-12-2025 (10:35) Hr	25-12-2025 (10:35) Hr	53.8	19.4	15.1	14.4
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-12/03 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**PITTAVANIPALEM VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	09-12-2025 (10:20) Hr	10-12-2025 (10:20) Hr	56.3	18.5	14.1	12.9
2	23-12-2025 (10:05) Hr	22-12-2025 (10:05) Hr	52.7	15.9	12.7	10.5
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-12/04 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DASARIPETA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	08-12-2025 (10:40) Hr	09-12-2025 (10:40) Hr	60.1	23.8	13.5	11.9
2	22-12-2025 (09:50) Hr	23-12-2025 (09:50) Hr	55.7	20.4	11.3	9.10
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/25-12/05 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
DATE OF COLLECTION& TIME	:	26-12-2025 @ 09:50 hr
END DATE OF SAMPLING &TIME	:	27-12-2025 @ 09:50 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**KALAPAKA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	46.9	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	15.3	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.1	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	12.9	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.20	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.4	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/25-12/06 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
DATE OF COLLECTION & TIME	:	27-12-2025 @ 10:25 hr
END DATE OF SAMPLING & TIME	:	28-12-2025 @ 10:25 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**R & D Buildings**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	66.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	27.9	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.1	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	15.7	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.29	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	13.1	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/25-12/07 **Dated: 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	DECEMBER'2025
DATE OF COLLECTION& TIME	:	29-12-2025 @ 10:15 hr
END DATE OF SAMPLING &TIME	:	30-15-2025 @ 10:15 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**BBPS Deepanjali Nagar**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	58.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	22.7	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	13.5	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	15.1	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.36	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	12.8	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-01/01 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DEVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	06-01-2026 (10:10) Hr	07-01-2026 (10:10) Hr	47.2	18.5	12.8	10.3
2	21-01-2026 (10:45) Hr	22-01-2026 (10:45) Hr	53.8	20.7	15.1	12.5
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-01/02 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**RAVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	09-01-2026 (09:40) Hr	10-01-2026 (09:40) Hr	54.3	18.6	15.3	12.7
2	24-01-2026 (10:15) Hr	25-01-2026 (10:15) Hr	49.7	16.5	13.8	11.4
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-01/03 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**PITTAVANIPALEM VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	08-01-2026 (10:50) Hr	09-01-2026 (10:50) Hr	51.9	14.7	11.4	9.10
2	23-01-2026 (10:20) Hr	24-01-2026 (10:20) Hr	47.2	12.9	10.7	8.50
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-01/04 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DASARIPETA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	07-01-2026 (10:30) Hr	08-01-2026 (10:30) Hr	55.9	19.6	14.7	12.5
2	22-01-2026 (09:30) Hr	23-01-2026 (09:30) Hr	46.7	13.9	10.8	8.90
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-01/05 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
DATE OF COLLECTION& TIME	:	27-01-2026 @ 10:05 hr
END DATE OF SAMPLING &TIME	:	28-01-2026 @ 10:05 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**KALAPAKA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	54.7	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	17.3	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	12.8	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	10.4	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.30	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	9.10	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-01/06 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
DATE OF COLLECTION & TIME	:	29-01-2026 @ 10:40 hr
END DATE OF SAMPLING & TIME	:	30-01-2026 @ 10:40 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**R & D Buildings**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	60.9	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	21.6	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	15.4	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	18.1	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.40	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	11.9	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-01/07 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	JANUARY'2026
DATE OF COLLECTION& TIME	:	28-01-2026 @ 10:25 hr
END DATE OF SAMPLING &TIME	:	29-01-2026 @ 10:25 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**BBPS Deepanjali Nagar**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	55.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	18.7	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	11.9	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	13.4	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.30	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.2	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-02/01 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DEVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	07-03-2026 (10:00) Hr	07-02-2026 (10:00) Hr	51.8	20.4	14.9	12.1
2	23-02-2026 (10:25) Hr	24-02-2026 (10:25) Hr	46.3	17.1	13.6	11.5
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-02/02 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**RAVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	10-02-2026 (09:55) Hr	11-02-2026 (09:55) Hr	49.3	16.7	13.9	11.4
2	26-02-2026 (10:40) Hr	27-02-2026 (10:40) Hr	46.5	14.2	11.7	9.50
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-02/03 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**PITTAVANIPALEM VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	09-02-2026 (10:10) Hr	10-02-2026 (10:10) Hr	44.9	12.6	10.4	8.80
2	25-02-2026 (10:00) Hr	26-02-2026 (10:00) Hr	50.3	15.1	13.8	10.9
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-02/04 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DASARIPETA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	07-02-2026 (10:05) Hr	08-02-2026 (10:05) Hr	48.1	16.9	12.1	10.9
2	24-02-2026 (09:45) Hr	25-02-2026 (09:45) Hr	45.7	12.4	9.60	7.20
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-02/05 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
DATE OF COLLECTION& TIME	:	17-02-2026 @ 09:30 hr
END DATE OF SAMPLING &TIME	:	18-02-2026 @ 09:30 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**KALAPAKA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	50.9	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	16.1	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	10.7	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	8.60	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.21	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	8.25	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-02/06 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
DATE OF COLLECTION & TIME	:	18-02-2026 @ 11:00 hr
END DATE OF SAMPLING & TIME	:	19-02-2026 @ 11:00 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**R & D Buildings**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	54.7	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	18.3	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	12.9	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	15.1	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.32	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.1	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/26-02/07 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	FEBRUARY'2026
DATE OF COLLECTION& TIME	:	21-02-2026 @ 09:55 hr
END DATE OF SAMPLING &TIME	:	22-02-2026 @ 09:55 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**BBPS Deepanjali Nagar**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	49.2	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	15.7	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	13.6	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	15.1	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.25	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	8.70	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-03/01 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DEVADA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	06-03-2026 (10:20) Hr	07-03-2026 (10:20) Hr	57.3	24.9	16.1	14.7
2	21-03-2026 (10:40) Hr	22-03-2026 (10:40) Hr	52.9	20.7	15.4	13.5
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-03/02 **Dated: 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020

Kind Attn: AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

DESCRIPTION OF WORK : **AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)

MONTH OF MONITORING : MARCH'2026

PARAMETERS REQUIRED : PM10, PM2.5, SO2 & NOx

DURATION OF SAMPLING : 24 HRS

LOCATION : **RAVADA VILLAGE**

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)
	From	To				
1	10-03-2026 (10:10) Hr	11-03-2026 (10:10) Hr	45.1	15.9	11.6	9.70
2	25-03-2026 (10:00) Hr	26-03-2026 (10:00) Hr	50.8	17.3	13.2	11.7
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-03/03 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**PITTAVANIPALEM VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	09-03-2026 (10:00) Hr	10-03-2026 (10:00) Hr	60.3	18.7	13.9	11.6
2	24-03-2026 (10:45) Hr	25-03-2026 (10:45) Hr	57.9	16.2	15.4	12.9
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-03/04 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.30/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**DASARIPETA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.No	DATE OF MONITORING		PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)
	From	To				
1	07-03-2026 (09:40) Hr	08-03-2026 (09:40) Hr	53.8	18.1	14.9	12.6
2	23-03-2026 (10:20) Hr	24-03-2026 (10:20) Hr	49.3	15.7	11.5	9.80
	Test Methods		**IS:5182 P-XXIII**	**IS:5182 P-XXIV**	**IS:5182 P-II**	**IS:5182 P-VI**
	NAAQS		**100**	**60**	**80**	**80**

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Ref. No: SV/NTPC-SIM/26-03/05 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
DATE OF COLLECTION& TIME	:	14-03-2026 @ 10:05 hr
END DATE OF SAMPLING &TIME	:	15-03-2026 @ 10:05 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**KALAPAKA VILLAGE**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	46.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	15.9	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	12.6	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	10.3	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.30	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	9.70	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Ref. No: SV/NTPC-SIM/26-03/06 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
DATE OF COLLECTION & TIME	:	16-03-2026 @ 10:00 hr
END DATE OF SAMPLING & TIME	:	17-03-2026 @ 10:00 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**R & D Buildings**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	60.9	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	21.7	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	14.4	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	16.2	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.39	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	12.7	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072
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Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F **CIN:** U74909AP2025PTC119098

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No: SV/NTPC-SIM/26-03/07 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020 Kind Attn: AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
DESCRIPTION OF WORK	:	**AMBIENT AIR QUALITY MONITORING** (10.40/MONTHLY)
MONTH OF MONITORING	:	MARCH'2026
DATE OF COLLECTION& TIME	:	17-03-2026 @ 10:35 hr
END DATE OF SAMPLING &TIME	:	18-03-2026 @ 10:35 hr
PARAMETERS REQUIRED	:	PM10, PM2.5, SO2 & NOx, CO, O_3, Ni, As, Pb, C6H6, BaP& NH_3
DURATION OF SAMPLING	:	24 HRS
LOCATION	:	**BBPS Deepanjali Nagar**
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	NAAQS	METHOD
1	Particulate Matter – PM_{10}	$\mu g/m^3$	58.3	100	IS:5182 (P-23)
2	Particulate Matter – $PM_{2.5}$	$\mu g/m^3$	19.1	60	IS:5182 (P-24)
3	Sulphur Dioxide – SO_2	$\mu g/m^3$	16.7	80	IS:5182 (P-2)
4	Oxides of Nitrogen - NO_X	$\mu g/m^3$	18.4	80	IS:5182(P-6)
5	Carbon Monoxide – CO	mg/m^3	0.40	02	IS:5182 (P-10)
6	Ozone - O_3	$\mu g/m^3$	10.3	100	IS :5182 (P-9)
7	Lead as Pb	$\mu g/m^3$	< 0.01	01	IS:5182 (P-22)
8	Ammonia as NH_3	$\mu g/m^3$	< 20	400	IS:5182 (P-25)
9	Benzene as C_6H_6	$\mu g/m^3$	< 0.5	05	IS 5182 (P-11)
10	Benzo(a)pyrene(BaP)	ng/m^3	< 0.5	01	IS 5182 (P-12)
11	Arsenic as As	ng/m^3	< 0.5	06	CPCB Guidelines
12	Nickel as Ni	ng/m^3	< 0.5	20	IS:5182 (P-26)

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COMPLIANCE STATUS
OF
ENVIRONMENTAL CLEARANCE
FOR
COASTAL REGULATION ZONE AREA

NTPC Limited
SIMHADRI SUPER THERMAL POWER STATION

ENVIRONMENT MANAGEMENT GROUP
NTPC-SIMHADRI (PO)
PIN: 531 020
Andhra Pradesh

As on 31.03.2026

NTPC - SIMHADRI SUPER THERMAL POWER STATION

COMPLIANCE STATUS OF 'ENVIRONMENTAL CLEARANCE FOR INTAKE AND OUTFALL FACILITY IN THE COASTAL REGULATION ZONE AREA FOR SIMHADRI TPP (MOEF LETTER DATED 25TH June, 2008.

S.No.	CRZ Condition	Status of Implementation
(A)	**Specific Conditions:**	
(i)	All the conditions stipulated by the Andhra Pradesh State Pollution Control Board vide Order No. 20/PCB/CFE/RO-VSP/HO/2007/1478 dated 1.10.2007 shall be strictly complied with.	Compliance to CFE-Stage-II is attached as **Annexure-I**.
(ii)	The project shall be implemented in such a manner that there is no damage whatsoever to the mangroves / other sensitive coastal ecosystems. If any damage to mangroves is anticipated / envisaged as a result of project activities then the clearance shall stand cancelled and the proponents shall seek fresh approval from the Ministry.	Complied.
(iii)	The project proponent shall implement all the measures that have been proposed by them in the clarification letter dated 9.6.2008 provided to the Ministry.	The measures proposed for stage-II of the project are implemented.
(iv)	The effluent to be disposed of shall meet the standards prescribed by Andhra Pradesh Pollution control Board.	All the effluents generated are treated in the treatment plants at the respective point of origin and treated effluents are monitored. The treated effluents parameters are well within statutory standards. Effluent monitoring report enclosed as **Annexure-II**.
(v)	The pipelines both intake and outlet shall not cause any hindrance to the movement of the local communities including the fishermen.	There is no hindrance to the movement of local community due to intake and discharge pipeline of the project as the pipelines are buried in the CRZ area.
(vi)	A continuous and comprehensive post-project marine quality monitoring programme shall be taken up. This shall include monitoring of water quality, sediment quality and biological characteristics covered in the EIA studies.	A study on Marine Ecology through National Institute of Oceanography was carried out and the recommendations are implemented. Another Study on marine ecology was awarded to NIO,

		Visakhapatnam. Report is expected by August-2026.
(vii)	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	There is no displacement of people, houses and any fishing activity due to project.
(viii)	It shall be ensured that due to the project, there is no adverse impact on the drainage of the area and recharge of groundwater. No groundwater shall be tapped in the project area falling in Coastal Regulation Zone.	There is no adverse impact on the drainage of the area. No ground water is being tapped in the project.
(ix)	The camps of labour shall be kept outside the Coastal Regulation Zone area. Proper arrangements for cooking fuel shall be made for the labour during construction phase so as to ensure that mangroves are not cut / destroyed for this purpose.	Complied.
(x)	There shall be display boards at critical locations along the pipeline viz., road / rail / river crossings giving emergency instructions. This will ensure prompt information regarding location of accident during any emergency. Emergency Information Board shall contain emergency instructions in addition to contact details. Proper lighting shall be provided all along the road.	Complied. Photographs of Display Boards are attached as **Annexure-III.**
xi.	The project activities shall not disturb the movement of fishing vessels or fishermen.	Complied.
xii.	It shall be ensured that during construction and post construction of the proposed jetty the movement of fishermen vessels of the local communities are not interfered with.	Complied.
xiii.	Relocation of the fishermen community, if any, shall be done strictly in accordance with the norms prescribed by the State Government. The relocated fishermen community shall be provided with all facilities including health care, education, sanitation and livelihood.	There is no displacement of fishermen community.
xiv.	Marine ecology monitoring shall be	A study on Marine Ecology through

	done regularly and report submitted every 6 month to Ministry's Regional Office at Bangalore.	National Institute of Oceanography was carried out and the recommendations are implemented. Another Study on marine ecology was awarded to NIO, Visakhapatnam. Report is expected by August-2026.
xv.	Regular monitoring of air quality shall be done in the settlement areas around the project site and appropriate safeguard measures shall be taken to ensure that the population is not subjected to higher levels of air pollution.	Being complied. Ambient Air quality Monitoring Report enclosed as **Annexure-IV.**
xvi	Project proponent shall regularly update the Disaster Management Plan from time to time.	The Disaster Management Plan has been prepared for the project and is being updated at regular intervals. First three pages of the DPR are attached.
xviii.	Specific arrangements for rain water harvesting shall be made in the project design and the rain water so harvested shall be optimally utilized. Details in this regard shall be furnished to this Ministry's Regional Office at Bangalore within 3 months.	Rainwater Harvesting structures like recharge well, Contour Built Filters with check dams and Rain Water Harvesting Pond is created in Simhadri Plant and Township areas as suggested by Central Ground Water Board. They have suggested to monitoring ground water levels and quality at regular intervals which is being complied with religiously. Study of RWH potential for plant and Township area Conducted through Andhra University. RWH potential as per study: 45,210 m^3/year Existing Rain water harvesting facility: 45,210 m^3/year
xix	The facilities to be constructed in the CRZ area as part of this project shall be strictly in conformity with the provisions of the CRZ Notification, 1991 as amended subsequently.	Complied.
xx.	No land reclamation shall be carried out only to the extent that it is essential for this project.	No land has been reclaimed.
xxi	Green buffer zone shall be provided all around the project area in	Green buffer zone shall be provided all around the project

	consultation with local forest department and the report submitted to this Ministry's Regional Office at Bangalore.	area. The tree Plantation at the station is more than 6 lacs at an area nearly 600 acres as on today. Besides this 5.50 lakhs trees are planted under Green Visakha. 40,000 Plantation under Afforestation programme of NTPC with a target of Ten Million trees in next ten years Total Plantation: 20.86 Lakhs.
B.	**GENERAL CONDITIONS:**	
i.	Construction of the proposed structures shall be undertaken meticulously confirming to the existing Central / local rules and regulations. All the construction designs / drawings relating to the proposed construction activities must have approvals of the concerned State Government Department / Agencies.	Being complied.
ii.	The project authorities shall take appropriate community development and welfare measures for the villagers in the vicinity of the project site, including drinking water facilities. A separate fund shall be allocated for this purpose.	NTPC has undertaken community development activities in the surrounding villages. Facilities like approach road to villages, drinking water, school building, hospital etc for the people of the villagers have been undertaken. Separate fund has been allocated for Community Development Programme under Corporate Social Responsibility.
iii.	To meet any emergency situation, appropriate fire fighting system shall be installed. Appropriate arrangements for uninterrupted power supply to the environment protection equipment and continuous water supply for the fire fighting system shall be made.	Complied.
iv.	A separate Environment Management Cell with suitably qualified staff to carry out various environment related functions shall be set under the charge if a Senior Executive who will report directly to the Chief Executive of the Company.	An Environment Management Group (EMG) has been set up at Simhadri TPP. Deputy General Manager, who reports directly to the head of the station is in charge of EMG. EMG has sufficient trained manpower for environmental monitoring and other environmental related activities to

		ensure compliance with statutory requirements. It interacts regularly with the State Pollution Control Board. The Environmental laboratory at Simhadri STPP is adequately equipped for monitoring of ambient air quality, stack emission water/effluent quality, etc.
v.	The funds earmarked for environment protection measures shall be maintained in a separate account and there shall be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported to this Ministry's Regional Office at Bangalore.	The requisite funds for environmental mitigation measures have been included in the project cost. Financial provision stipulated towards environmental mitigate measures is not diverted for other purposes.
vi.	Full support shall be extended to the officers of this Ministry's Regional Office at Bangalore and the officers of the Central and State Pollution Control Board by the project proponents during their inspection for monitoring purposes by furnishing full details and action plans including the action taken reports in respect of mitigate measure and other environmental protection activities.	Full cooperation is being extended to the Scientists / officers from the Ministry / Regional Office of the Ministry at Chennai and Bangalore the CPCB / the SPCB during monitoring of the project.
vii.	In case of deviation or alteration in the project including the implementing agency, a fresh reference shall be made to this Ministry for modification in the clearance conditions or imposition of new one for ensuring environmental protection. The project proponents shall be responsible for implementing the suggested safeguard measures.	Noted.
viii.	This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Noted.
ix.	This Ministry or any other Competent Authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental	Noted.

	protection, which shall be complied with.	
x.	A copy of the clearance letter shall be marked to the concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	Noted.
xi.	State Pollution Control Board / Committee shall display a copy of the clearance letter at the District Industries Center and collector's Office/Tehsildar's Office for 30 days.	Noted.
xii.	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Andhra Pradesh State Pollution Control Board and may also be seen at website of the Ministry of Environment & Forests at http://www.envfor.nic.in.	The information of Coastal Regulation Zone Clearance was published in three news papers on 17.07.2008. 1. PRAJA SHAKATI ON 17.07.2008. 2. ANDHRA BHOOMI ON 17.07.2008. 3. DECCAN CHRONICLE ON 17.07.2008.
xiii.	The project proponents shall inform Regional Office, Bangalore as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of work.	Investment approval for the project is March, 2007. The date of start of construction work is August, 2007.
xiv.	The project proponent will obtain the Forest clearance for the land passing through the Reserved Forest area before commencement of the project activities in forest area.	No forest land is involved.
xv.	So as to maintain ecological features and avoid damage to the ecosystem, movement of vehicles in the Inter Tidal Zone shall be restricted to the minimum.	Being complied.
xvi.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as	Noted.

	prescribed under Section 11 of the National Environment Appellate Act, 1997.	

COMPLIANCE STATUS
OF
CONSENT FOR ESTABLISHMENT (CFE)
Stage-I (2x500 MW)

NTPC Limited
SIMHADRI SUPER THERMAL POWER STATION

ENVIRONMENT MANAGEMENT GROUP
NTPC-SIMHADRI (PO)
PIN: 531 020
Andhra Pradesh

As on 31.03.2026

NTPC - SIMHADRI THERMAL POWER STATION
[Stage – I (2x500 MW)]

COMPLIANCE STATUS OF CONSENT FOR ESTABLISHMENT

S. No.	CFE condition	Status of Implementation
01.	Trees shall be planted and maintained in the vacant spaces of the premises, at-least in an area of 4 times the build-up area of the industry. Tree plantation shall be the first item to be taken up before starting construction. Area of plantation shall be such that if replenishes the amount of oxygen consumed by the process operations and consequent release of pollutants into atmosphere.	Simhadri STPP started planting trees right from the approval stage of setting up the station i.e from the year 1998 and will be continued. Around 7,000 nos. of tall growing species of tree plantation have been planted around coal piles to mitigate fugitive dust emission. Extensive plantation and afforestation are being undertaken in all available spaces in and around Simhadri. Till date 6,60,000 No's of Trees are planted in 605 Acres of plantation in and NTPC-Simhadri; In addition, 5,50,000 No's of Plantation under Green Visakha Plantation programme in and around city of Visakhapatnam have been completed after the grant of Environmental Clearance (EC) dated 23.07.1996 and 01.08.2007. To support State Government's Plantation Program in the area "Haritha Haram" plantation of 2,80,000 Lakh trees were planted in Paderu under accelerated afforestation program. In addition to this, annual target of 40,000 tree saplings is being carried through Andhra Pradesh Social forestry division since 2019. Over 25,000 No's of saplings are planted under VANAM MANAM program of Andhra Pradesh Government. After the HUDHUD cyclone, to compensate the greenery loss, NTPC Simhadri had contributed around Rs.50,00,000 by distributing 3,50,000 No's of fruit bearing trees in six mandals of Vishakhapatnam District. In the year 2025-26 40,000 saplings planted through AP Forest Department. It amounts to contribution of an afforestation area of about 3285 acres in total.
02.	The industry shall recycle the ash pond and DM Plant effluents.	Ash pond effluents are being recycled and being used for Ash slurry makeup. Treated DM Plant effluent is being used for Ash Slurry make up.
03.	The industry shall treat the cooling wastewater through the marine coastal standard and domestic waste water on land for irrigation standards stipulated under Environmental (Protection) Rules, 1986 as amended upto date, notified under Environment Protection Act, 1986 by	a) A closed cycle cooling system using Natural Draft Cooling Tower (NDCT) has been provided for treating cooling water. There are two cooling towers each of 165 m height. The cooling tower blow down is partly re-utilized and balance is brought to Central Monitoring Basin (CMB).

	Ministry of Environment & Forests, Government of India.	The effluent treatment system has been designed so that the treated waste water confirm to marine coastal standards. b) Sewage Treatment Plant :– Separate Sewage treatment plant for Township and project area are provided. The treated water is used for the horticulture purpose.
04.	The run-off water from coal yard shall be treated to on land for irrigation standards before final disposal.	Coal dust settling pond has been provided to treat run off water from coal stock yard. The clear supernatant water is being continuously monitored by EQMS (Effluent Quality Monitoring Station) system before leaving to Marine Outfall.
05.	The Industry shall discharge the cooling water into the sea through a suitable drain/submarine pipeline.	Closed cycle cooling water system has been provided for this project. Cooling tower blow down is partly re-utilized. Balance blow down is being brought to Central Monitoring Basin from where it is discharged into the sea through a suitable drain/submarine pipeline. The marine outfall consists of 6 port diffuser of 0.4 m diameter each, 25m apart. Vertical inclination ports directed towards the shore and away from the intake.
06.	The industry shall treat domestic effluents by adopting suitable technology such as oxidation ponds, aerated lagoons etc. and discharge the treated effluents etc. on land for irrigation by gardening.	The domestic effluents are treated in aerated tanks to conform to the standards. The capacity of the plant is 1790 m^3/day. The plant comprised of following units: a) Raw sewage pump house along with coarse screen. b) Grit chamber, parshall flume along with medium screen. c) Aeration Tank. d) Secondary clarifier along with Return sludge pump. e) Fish pond. f) Sludge drying bed. The BOD level of the treated effluent is less than 20 mg/l and TSS is 30 mg/l. The effluent is being disinfected with bleaching powder dosing. The treated sewage is used for the horticulture purpose inside the township area to the extent possible. However, the surplus sewage, if any, is discharged into the natural stream for the utilization in fields on request from farmers.
07.	The cooling water used in the once through system if treated with Biocide will effect the biota of the sea and fishing also, in the proximity of the discharge point. It should be controlled by properly designed outfall into the sea.	Closed cycle cooling system has been adopted. Biocide application is negligible when compared to open Cycle. Further Monitoring of effluents is being done continuously.
08.	The industry shall install and commission	• The Electro Static Precipitators (ESP) are

	appropriate control equipment for control the stack emission to meet the following emission standards :- a) Particulate matter – 100 mg/NM3. b) The industry shall install a stack of 275 mts. Height.	designed for a guaranteed efficiency of 99.93%. • ESPs are designed with 64 fields to limit the particulate emission to less than 100 mg/Nm3 under worst coal firing conditions • Stacks of 150 mt. has been provided at each unit with FGD.
09.	The industry shall install suitable control equipment facilities in the coal handling plant and dust suppression in all coal & material handling area should be achieved through appropriate measures.	Dust suppression systems have been provided in coal handling area including coal stock yard area for control of coal dust. At specified locations, chem.-jet suppression system has been provided which comprises of spray equipment with a wetting agent in a fine mist to capture air borne dust particles. Clarified water is used for chem.-jet dust suppression system. For Track Hopper Top and Coal Stockyard plain water spray system has been provided which comprises of fine spray nozzles. Water is discharged through a pipe work system through spray heads along the entire length of track hopper on each side. The track hopper spray system is of fogging type. For suppression of dust in the coal stockyard, seawater is used. The spray heads in the coal stockyard area comprises of swiveling type spray units spaced at an interval of approx. 40 m around each coal-pile.
10.	The Industry shall submit the detailed proposals on Effluent Treatment and Air Pollution Control Equipment for Board" perusal within 2 months from the date of issue of this letter.	A detailed write-up on air pollution control equipment and effluent treatment was submitted to APPCB on 03.06.1997.
11.	The industry shall construct and commission the effluent treatment plant and install air pollution control equipment along with the commissioning of the industry. All the units of the ETP shall be impervious to prevent ground water pollution.	The effluent treatment system equipments construction started along with main plant units and had been commissioned.
12.	The industry shall plan for complete utilization of the fly ash right from the date of commissioning of the plant.	An ash utilization plan has been prepared in line with the Gazette notification on ash utilization. The plan has been submitted to APPCB/MOEF&CC.
13.	The Industry shall either procure washed coal or set up a coal washery for the thermal power plant.	MOEF&CC has permitted use of raw coal.
14.	The industry shall provide adequate space for installing flue gas desulphurization system (FGD system) in their layout, so that the same can be installed as and when prescribed by AP Pollution Control Board.	As per the latest extension notification of MoEF & CC dated 30.12.2024 Simhadri STPP is obligated to complete the FGD work now by 31.12.2027. However, NTPC - Simhadri completed installation of FGD in all its units.

15.	The industry shall make arrangements to prevent fly ash from being air borne from the fly ash dumps.	A water cover is maintained in ash disposal area and water sprinkling / earth cover is provided in dry portions of ash pond.
16.	The temp rise shall minimal at the cooling water discharge point and shall meet the standards prescribed under the E (P) Act.	The closed cycle cooling towers have been provided for condenser cooling water. Thus there would be no hot water discharge. The CT blow down is partly re-utilized and balance amount left is well within differential temperature limits.
17.	Fire protection measures to control spontaneous combustion within the coal yard shall be adopted.	As per established industrial practice, hydrant system comprising of piping, valve, hoses, nozzles etc. have been provided around the coal yard to control all types of fire including spontaneous combustion fire. In addition, mobile fire extinguisher systems have also been provided.
18.	The SO2 and SPM discharge into the atmosphere from their area will be high, in view of the congregation of the large number of other industries such as M/s Visakhapatnam Steel Plant, two proposed refineries and a Thermal Power Plant (M/s Hinduja National Power Corporation Ltd.,). In view of this, the industry shall use low sulphur Indian coal.	Mainly Coal from Mahanadi Coalfields, Talcher is utilized for this plant. The Sulphur content in the coal is low (0.45%).
19.	The industry shall take all steps to see that the end products of burning of the fuel do not create any pollution problem in the environment. The ambient air quality standards for industrial area shall be satisfied. Three air quality stations shall be installed at appropriate locations in consultation with AP Pollution Board.	Air Pollution control equipments have been installed to mitigate air pollution. Ambient Air Quality is being monitored manually at Three (3) mutually identified locations around the plant. In addition to the above, Three more Online AAQM Stations are also kept in service.
20.	The industry shall be dispose off the solid wastes to the satisfaction of the Board after obtaining prior approval.	Ash is the main solid waste generated from the power plant which is disposed off in a well-designed ash disposal area. This has already been submitted to APPCB/MOEF&CC.
21.	There shall not be any perceptual odour outside the industry's premises, creating nuisance to public and other environment. The industry shall adopt control measures at all stages where odour is likely to be generated.	Power plant does not create any odour problem. However, extensive plantation has been taken up to improve the environment in and around the plant.
22.	Suitable automatic flow measuring devices and monitoring equipments shall be installed. Continuous monitoring and recording devices shall be installed to measure SPM and SO_2 concentrations in the Power Plant stacks.	Suitable flow measuring devices are in operation. Continuous stack monitoring facility for measurement of Particulate, SO_2 and NO_X are in operation.
23.	The industry shall provide a sampling port for all the stacks with removable dummy of	Complied. All the systems required for the sampling for Stack Emission Monitoring is

	not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc., and should provide a platform with suitable ladder below 1 meter of sampling port to accommodate three persons with instruments. The industry shall also provide a 5 Amp. 250 V plug point on the platform.	provided for manual monitoring of stack emission.
24.	The industry shall provide inter-locking arrangements between the process and pollution control equipments in such a way that, whenever the tolerance limits prescribed by the Board are exceeded, the process comes to halt.	The required inter-locking arrangements are provided all the units.
25.	Separate power connection with energy meter shall be provided for the pollution control equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.	Separate power connections with energy meters are provided for major pollution control equipments. Proper power and chemical consumption records are maintained.
26.	The progress of construction of the main process unit shall be in proportion to the installation of pollution control measures and the plantation.	This has been followed largely.
27.	Main process unit should be located at the centre of site as far as possible and the entire site should be enclosed by tall growing green plantation, preferably of species having broad leaf area.	A green belt around the plant boundary is developed as stipulated.
28.	All the rules and regulations notified by the MoEF, Govt. of India in respect of noise pollution control measures shall be followed to avoid nuisance to public. The ambient Noise level shall not exceed 75 dBA at a distance of 5 mtrs. from source.	All the equipments have been designed with noise prevention enclosures. The ambient noise level conforms to the day and night prescribed standards.
29.	The generator shall be installed in a closed area with a silencer and suitable noise absorption system so as to comply with the following ambient noise level standards : 75 dBA at a distance of 5 M from source.	Complied.
30.	The industry shall install minimum stack height to the DG Set as per CPCB guidelines. The minimum of stack shall be calculated based on the following formula : H=h+0.2 KVA H: Height of stack in mts. H: Height of the building in mts. where the DG set is installed. KVA – Total Generator Capacity in KVA.	Complied.
31.	All the rules and regulations notified by	Complied.

	MoEF, Govt. of India in respect of manufacture, storage and import of hazardous chemicals promulgated under Environment (Protection) Act, 1986 shall be followed.	
32.	All the rules and regulations notified by MoEF, Govt. of India in respect of management and handling of hazardous wastes promulgated under Environment (Protection) Act, 1986 shall be followed.	Complied.
33.	All the rules and regulations notified by Ministry of Law and Justice, Govt of India regarding the Public Liability Insurance Act, 1991 shall be followed.	Complied with.
34.	The Industry shall establish Environment Cell, headed by an Environmental Engineer, for environmental management in the industry.	An Environment Cell headed by DGM level executive supported by a team with engineering and technical background has been established for environment management.
35.	The industry shall appoint a Horticulturist for looking after tree plantation work and further maintenance.	Plantation work and maintenance given to AP social Forestry division as a depository work.
36.	The industry is liable to pay compensation for any environmental damage by it, as fixed by Collector and District Magistrate, as Civil liability.	Noted.
37.	If at any time during inspection of Pollution Control Board officers or officials of licensing/servicing departments if it is found that the industry is not complying with any of the above conditions, this NOC is liable for cancellation without notice and all the services rendered and license issued shall be liable for cancellation without further notice.	Noted.
38.	The industry shall report progress on implementation of the project to this office, Regional Office, A.P.Pollution Control Board, Visakhapatnam regularly.	complied.
39.	The applicant shall obtain consent for trial production before the factory goes into trial production.	The Consent for Operation (CFO) is obtained and valid until 31.08.2027 The factory is operational since 2002
40.	Regular consent of the Board shall be obtained as required under Section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 21/22 of the Air (Protection and Control of Pollution) Act, 1981.	Consent orders are being renewed regularly and the present consent orders are valid up to 31/08/2027.
41.	The applicant shall comply with and carry out conditions issued by the Board in this consent order scrupulously. The applicant is liable for legal section as per the	Noted

	provisions of the relevant Acts in case of non-compliance of any conditions of the consent order.	
42.	Not withstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power under Section 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and under Section 21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alteration as deemed fit and stipulate any additional conditions for the purpose of the Act by the Board.	Noted.
43.	The applicant shall exhibit the consent of the Board in the factory premises as a conspicuous place for the information of the inspecting officers of different departments.	Complied. Photograph enclosed.



NTPC Limited

Simhadri Super Thermal Power Station
Parawada, Anakapalli Dist - 531020

Consent Order No : APPCB/VSP/12334/HO/CFO/2002- 19/10/2022

Date of issue 19.10.2022
Valid upto 31.08.2027

1. Water details(permitted)		Stage -I	Stage -II
S.No.	Purpose	Quantity in KLD	
1	Industrial Cooling (makeup)-Sea water	216000	213240
2	DM Plant	4320	13200
3	Domestic (Including Gardening/Irrigation)	4080	
	Total	224400	226440

2.Waste Water Generation & Mode of treatment

S.No	Outlet description	Max Daily discharge in KLD	Point of disposal
	Stage -I (Unit 1&2)		
1	DM Plant regneration effluent	3400	Reused for ash slurry preparation
2	Boiler blowdown and once through cooling water after treatment	103900	Into Sea
3	Ash Pond Effluent	9600	Reused for ash pumping
4	Domestic	1790	After treatment in STP, onland for plantation /gardening
	Total	118690	
	Stage -II(Unit 3&4)		
1	Filter backwash	240	Recycled to clarified inlet
	CHP effluent	4800	Sedimentation ,treatment & recycled
2	DM Plant regneration waste	240	Neutralisation and disposal through central monitoring basin (CMB) & excess treated effluents to sea
	Cooling tower blowdown	106320	Partial use and disposal through CMB & excess treated effluents to sea
	Boiler blowdown	1080	Disposal through CMB & excess treated effluents to sea
	Ash water blowdown	34320	
3	Clarifier sludge	720	Disposal in ash pond
4	Domestic	2400	Biological treatment and onland for plantation /gardening.
	Total	150120	

3.Emissions from Chimney

Chimney No.	Description of chimney	Quantity of Emissions in m^3/hr at peak flow
1	Attached to 2 x 1, 675 TPH Coal fired boilers (Stage -I:1000 MW)	28,51,560
2	Attached to 2 x 1, 675 TPH Coal fired boilers (Stage -II:1000 MW)	28,99,800

4.Hazardous waste generation

Hazardous waste with recycling option

S.No	Name of the hazardous waste	Stream	Quantity of Hazardous waste	Disposal option
1	Waste /Used oil	5.1 of schedule - I	150 KL/annum	Shall be routed through APEMC to authorized Reprocessors / Recyclers. (As recyclable waste)
2	Fuller Earth / Filter Media material	5.2 of schedule - I	5000 KG/annum	
3	Spent Resin	3.5 of schedule - I	20000 ltrs/annum	Shall be routed through M/s.APEMCL to preprocessor / cement indus processing.(As utilizable
4	Oil Soaked Cotton Waste	5.2 of schedule - I	500 ltrs/annum	
5	Insulation Wool	33.2 of schedule - I	150 MT/annum	Shall be routed through APEMC to TSDF, Visakhapatnam. (As landfill waste)

This consent order is valid for power generation with quantities indicated below

S.No	Product	Disposal option
1	Electricity (Coal with maximum sulphur content of 0.6% and ash content of 45%)	2000 MW (Existing: Stage – I(Unit-1&2) - 1000 MW, Existing: Stage – II(Unit-3&4)- 1000 MW)
2	Floating solar power plant	25 MW

NO PARKING

COMPLIANCE STATUS
OF
CONSENT FOR ESTABLISHMENT
STAGE- 2 (2x500 MW)

NTPC Limited
SIMHADRI SUPER THERMAL POWER STATION

ENVIRONMENT MANAGEMENT GROUP
NTPC-SIMHADRI (PO)
PIN: 531 020
Andhra Pradesh

As on 31.03.2026

NTPC – SIMHADRI SUPER THERMAL POWER STATION
[Stage – II (2x500 MW)]
COMPLIANCE STATUS OF CONSENT FOR ESTABLISHMENT
(APPCB Letter dated 01.10.2007)

Schedule: 'A'

S.No.	Consent Condition	Status of Implementation
01.	Progress on implementation of the project shall be reported to the Regional Office, AP Pollution Control Board, and Visakhapatnam once in six months.	Complied.
02	Separate energy meters shall be provided for Effluent Treatment Plant and Air Pollution Equipment to record energy consumed	Separate Energy Meters are provided for the Pollution Control Equipments like ESP, EDP Pump House, Sewage Treatment Plant etc.,
03.	The proponent shall obtain Consents for operation from APPCB, as required Under Sec. 25/26 of the Water (P&C of P) Act 1974 and under sec. 21/22 of the Air (P&C of P) Act 1981, before commencement of the activity.	The Consents for operation from APPCB have been obtained and valid up to 31.08.2027.
04.	Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act 1974 and Under Sec. 21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions by the Board.	Noted.
05.	The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the information of the inspecting officers of different departments.	Complied, Photograph enclosed
06.	Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.	Noted.
07.	Floor washing shall be admitted into the effluent collection system only	

	and shall not be allowed to find their way in storm drains or open areas. The industry shall maintain a good housekeeping. All pipe valves, sewers, drains shall be leak proof. Dyke walls shall be constructed around storage of chemicals.	Being complied.
08.	Rainwater Harvesting (RWH) structure(s) shall be established on the plant site. The proponent shall ensure that effluent shall not enter the Rainwater harvesting structure.	Rainwater Harvesting structures like recharge well, Contour Built Filters with check dams and Rainwater Harvesting Pond is created in Simhadri Plant and Township areas as suggested by Central Ground Water Board. They have suggested to monitoring ground water levels and quality at regular intervals which is being complied with religiously. Study of RWH potential for plant and Township area Conducted through Andhra University. RWH potential as per study: 45,210 m^3/year Existing Rainwater harvesting facility: 45,210 m^3/year
09.	The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act 1991 shall be followed.	Public Liability Insurance (PLI) is available with validity
10.	The order is valid for a period of **5 years** from the date of issue	Noted.

Schedule: 'B'

01.	The source of water is Sea water (8885 M3/Hr) from Bay of Bengal and Sweet water from Yeluru left bank canal (550 M3/Hr) and the maximum permitted water consumption after expansion is 4,66,920 KLD.	Complied.
02.	The Effluent Treatment Plant (ETP) shall be constructed and commissioned, and Air Pollution control equipment shall be installed along with the commissioning of the activity. All the units of the ETP shall be impervious to prevent ground water pollution.	Complied
03.	The trade effluents shall be treated to the marine water standards, stipulated under Environment (Protection) Rules, 1986 notified and published by Ministry of Environment and	

<table>
<tr><td></td><td>Forests, Government of India as specified in schedule VI vide G.S.R. 422 (E) dt. 19.05.1993 and its amendments thereof.</td><td>Being complied</td></tr>
<tr><td>04.</td><td>The maximum wastewater generation (m3/hr) shall not exceed the following as mentioned at table no.2.4.1 in the EIA report

<table>
<tr><th>Effluent stream</th><th>Quantity M^3/Hr</th><th>Treatment/ disposal</th></tr>
<tr><td>Clarifier sludge</td><td>30</td><td>Disposal in ash pond</td></tr>
<tr><td>Filter back wash</td><td>10</td><td>Recycled to clarifier inlet</td></tr>
<tr><td>DM plant regene-ration waste</td><td>10</td><td>Neutralization and disposal through CMB</td></tr>
<tr><td>CT Blow down</td><td>4430</td><td>Partial use and disposal through CMB</td></tr>
<tr><td>Boiler Blow down</td><td>45</td><td>Disposal through CMB</td></tr>
<tr><td>CHP effluent</td><td>200</td><td>Sedimentation treatment and recycle</td></tr>
<tr><td>Ash water blow down</td><td>1430</td><td>Disposal through CMB</td></tr>
<tr><td>Sanitary waste</td><td>100</td><td>Biological treatment and disposal</td></tr>
</table>

<table>
<tr><th>Source effluent</th><th>Proposed treatment</th><th>Mode of disposal</th></tr>
<tr><td>Thermal discharges from condenser and auxiliary cooling, coal handling plant waste, oily waste water, DM waste water etc. ash pond effluent</td><td>ETP</td><td>Collected into Central Monitoring Basin CMB and excess treated effluent sent to sea through existing facility</td></tr>
</table>
</td><td>Being complied

Being complied</td></tr>
</table>

<table>
<tr><td></td><td><table>
<tr><td>Sanitary waste from plant and township</td><td>STP</td><td>Shall be utilized on land for green belt after confirming to on land for irrigation standards</td></tr>
</table></td><td></td></tr>
<tr><td>05.</td><td>Separate meters with necessary pipe line shall be provided for assessing the quantity of water used for each of the purposes mentioned below:
a. Industrial cooling, and boiler feed
b. Domestic purposes
c. Processing, whereby water gets polluted and
Pollutants are easily biodegradable.
d. Processing, whereby water gets polluted and
the pollutants are not easily bio-degradable.</td><td>Complied.</td></tr>
<tr><td>06.</td><td>The proponent shall comply with the following for controlling air pollution.
Proposed:-
<table>
<tr><th>S. No</th><th>Details of Stack</th><th></th></tr>
<tr><td>a.</td><td>Attached to</td><td>Boiler</td></tr>
<tr><td>b.</td><td>Capacity</td><td>Assisted circulated drum type super heated boiler -1675 MT/Hr each (2 Nos.)</td></tr>
<tr><td>c.</td><td>Fuel form</td><td>Solid (pulverized coal)</td></tr>
<tr><td>d.</td><td>Quantity</td><td>Coal-8901 MT per day</td></tr>
<tr><td>e.</td><td>Stack height</td><td>1 x 275 mtr. with twin flue</td></tr>
<tr><td>f.</td><td>Control equipment</td><td>ESP</td></tr>
<tr><td>g.</td><td>Standard</td><td>SPM 100 mg/NM^3 as stipulated in EC dated 01.08.07 and 50 mg/NM^3 as per revised emission norms.</td></tr>
</table>
<table>
<tr><th>Details of fugitive emissions</th><th>Control equipment</th></tr>
<tr><td>Coal handling section</td><td>Dust suppression system</td></tr>
</table></td><td>• The electrostatic precipitators are designed for a guaranteed efficiency of 99.93 %.
• ESP’s are designed to limit the particulate emission to 50 mg/Nm3 under worst coal / turbine maximum operating conditions even with one series field out of operation. These ESP’s have 10 stages of fields (8 fields per stage) with total collection area of 224640m^2.
• Stacks of 150 mt. has been provided at each unit after installation of FGD</td></tr>
</table>

<table>
<tr><td>07.</td><td>A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15Amp. 250V plug point shall be provided on the platform.</td><td>All the systems required for the sampling are provided for manual monitoring of stack emission.</td></tr>
<tr><td>08.</td><td>Space provision shall be made for installation of FGD of requisite efficiency of removal of SO_2, if required at a latter stage.</td><td>As per MoEF notification 30.12.2024, extension for completion for FGD works is granted up to 31.12.2027. However NTPC - Simhadri completed installation of FGD in all its units.</td></tr>
<tr><td>09.</td><td>The proponent shall comply with the following;
<table>
<tr><th>Sl. No.</th><th>Solid waste generated from</th><th>Quantity MT/day</th><th>Method of disposal</th></tr>
<tr><td>1.</td><td>Boiler</td><td>7380 TPD</td><td>Ash shall be utilized for laying of roads, increasing of ash and dyke heights and cement and brick manufacturing units</td></tr>
</table></td><td>Being complied. More than 100% utilization for last 9 years.</td></tr>
<tr><td>10.</td><td>Fly ash shall be collected in dry form and its 100% utilization shall be achieved within 9 years as stipulated by MOEF in EC dated. 10.08.07</td><td>Provision is being made for 100 % collection of fly ash in dry form; Stage-II DAES commissioned. Ash Utilization for the Period 2024-25 is 105%</td></tr>
<tr><td>11.</td><td>The following rules and regulations notified MOEF, GOI shall be implemented Hazardous waste (Management and Handling), Rules 1989.</td><td>Being complied.</td></tr>
<tr><td>12.</td><td>As stipulated in the EC dated. 01.08.07, in lieu of the 25 acres of green belt area to be utilized for the project, green belt shall be developed in an area of 10 acres between coal handling plant and cooling tower of stage II. Additionally, afforestation shall be carried out in an area of 75 acres outside the plant premises in consultation with the State Forest Department. Green Belt development shall be started along with the construction activity of the expansion project.</td><td>Simhadri STPP started planting trees right from the approval stage of setting up the station i.e from the year 1998 and will be continued. Around 7,000 nos. of tall growing species of tree plantation have been planted around coal piles to mitigate fugitive dust</td></tr>
</table>

		emission. Extensive plantation and afforestation are being undertaken in all available spaces in and around Simhadri. Till date 6,60,000 No's of Trees are planted in 605 Acres of plantation in and NTPC-Simhadri; In addition, 5,50,000 No's of Plantation under Green Visakha Plantation programme in and around city of Visakhapatnam have been completed after the grant of Environmental Clearance (EC) dated 23.07.1996 and 01.08.2007. To support State Government's Plantation Program in the area "Haritha Haram" plantation of 2,80,000 Lakh trees were planted in Paderu under accelerated afforestation program. In addition to this, annual target of 40,000 tree saplings is being carried through Andhra Pradesh Social forestry division since 2019. Over 25,000 No's of saplings are planted under VANAM MANAM program of Andhra Pradesh Government. After the HUDHUD cyclone, to compensate the greenery loss, NTPC Simhadri had contributed around Rs.50,00,000 by distributing 3,50,000 No's of fruit bearing trees in six mandals of Vishakhapatnam District. In the year 2025-26 40,000 saplings planted through AP Forest Department. It amounts to contribution of

		an afforestation area of about 3285 acres in total.
13.	A water cover shall be maintained in the entire ash pond area to check fugitive emissions.	A water cover/ water sprinkling arrangement is being maintained in the ash disposal area to prevent fly ash from getting air borne during operation of the station. Wind barriers are installed to reduce 30 % of average fugitive dust emission. Sprinkling of water through sprinklers, water tankers in place.
14.	The project shall have a closed cycle cooling system with cooling towers.	A closed cycle cooling system using natural draft cooling towers is being provided for treating cooling water. There are two cooling towers each of 165m height.
15.	The recommendations/commitments made during the Public Hearing held on 9.1.2007 at Zilla Parishad Girls High School, Parawada, Visakhapatnam Distt shall explicitly be followed from pollution control point of view.	Being complied.
16.	The proponent shall submit water balance in KLD indicating quantity of water consumed losses, wastewater generated, treatment, quantity of wastewater recycled/reused and point of final disposal for each purpose/stream in a tabular formal with in 15 days.	The proposed water balance diagram has been incorporated in EIA study report prepared for the project.



NTPC Limited

Simhadri Super Thermal Power Station
Parawada, Anakapalli Dist - 531020

सिम्हाद्रि
SIMHADRI

Consent Order No : APPCB/VSP/12334/HO/CFO/2002- 19/10/2022

Date of issue 19.10.2022
Valid upto 31.08.2027

1. Water details(permitted)		Stage -I	Stage -II
S.No.	Purpose	Quantity in KLD	
1	Industrial Cooling (makeup)-Sea water	216000	213240
2	DM Plant	4320	13200
3	Domestic (including Gardening/Irrigation)	4080	
	Total	224400	226440

2.Waste Water Generation & Mode of treatment

S.No	Outlet description	Max Daily discharge in KLD	Point of disposal
	Stage -I (Unit 1&2)		
1	DM Plant regneration effluent	3400	Reused for ash slurry preparation
2	Boiler blowdown and once through cooling water after treatment	103900	Into Sea
3	Ash Pond Effluent	9600	Reused for ash pumping
4	Domestic	1790	After treatment in STP, onland for plantation /gardening
	Total	118690	
	Stage -II(Unit 3&4)		
1	Filter backwash	240	Recycled to clarified inlet
	CHP effluent	4800	Sedimentation ,treatment & recycled
2	DM Plant regneration waste	240	Neutralisation and disposal through central monitoring basin (CMB) & excess treated effluents to sea
	Cooling tower blowdown	106320	Partial use and disposal through CMB & excess treated effluents to sea
	Boiler blowdown	1080	Disposal through CMB & excess treated effluents to sea
	Ash water blowdown	34320	
3	Clarifier sludge	720	Disposal in ash pond
4	Domestic	2400	Biological treatment and onland for plantation /gardening.
	Total	150120	

3.Emissions from Chimney

Chimney No.	Description of chimney	Quantity of Emissions in m^3/hr at peak flow
1	Attached to 2 x 1, 675 TPH Coal fired boilers (Stage -I:1000 MW)	28,51,560
2	Attached to 2 x 1, 675 TPH Coal fired boilers (Stage -II:1000 MW)	28,99,800

4.Hazardous waste generation

Hazardous waste with recycling option

S.No	Name of the hazardous waste	Stream	Quantity of Hazardous waste	Disposal option
1	Waste /Used oil	5.1 of schedule - I	150 KL/annum	Shall be routed through APEMC to authorized Reprocessors / Recyclers. (As recyclable waste)
2	Fuller Earth / Filter Media material	5.2 of schedule - I	5000 KG/annum	
3	Spent Resin	3.5 of schedule - I	20000 ltrs/annum	Shall be routed through M/s APEMCL to preprocessor / cement indus processing.|As utilizable
4	Oil Soaked Cotton Waste	5.2 of schedule - I	500 ltrs/annum	
5	Insulation Wool	33.2 of schedule - I	150 MT/annum	Shall be routed through APEMC to TSDF, Visakhapatnam. (As landfill waste)

This consent order is valid for power generation with quantities indicated below

S.No	Product	Disposal option
1	Electricity (Coal with maximum sulphur content of 0.6% and ash content of 45%)	2000 MW (Existing: Stage – I(Unit-1&2) - 1000 MW, Existing: Stage – II(Unit-3&4)- 1000 MW)
2	Floating solar power plant	25 MW

NO PARKING
SAFETY Dept

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/24 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –I (10.210/MONTHLY)**

DATE OF COLLECTION : 11-10-2025

DATE OF RECEIPT : 11-10-2025

ANALYSIS STARTING DATE : 13-10-2025

ANALYSIS COMPLETION DATE : 15-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	3.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.01	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.03	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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AUTHORIZED SIGNATORY

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Ref. No: SV/NTPC-SIM/25-10/25 **Dated: 03-11-2025**

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PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –II** (10.210/MONTHLY)
DATE OF COLLECTION	:	11-10-2025
DATE OF RECEIPT	:	11-10-2025
ANALYSIS STARTING DATE	:	13-10-2025
ANALYSIS COMPLETION DATE	:	15-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	5.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.08	NA	APHA 4500 PC

Note: NA Denotes Not Applicable

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PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –III** (10.210/MONTHLY)
DATE OF COLLECTION	:	11-10-2025
DATE OF RECEIPT	:	11-10-2025
ANALYSIS STARTING DATE	:	13-10-2025
ANALYSIS COMPLETION DATE	:	15-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	8.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.05	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.03	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –IV** (10.210/MONTHLY)
DATE OF COLLECTION	:	11-10-2025
DATE OF RECEIPT	:	11-10-2025
ANALYSIS STARTING DATE	:	13-10-2025
ANALYSIS COMPLETION DATE	:	15-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	<1.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.07	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.05	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/24

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
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P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –I** (10.210/MONTHLY)

DATE OF COLLECTION : 14-11-2025

DATE OF RECEIPT : 15-11-2025

ANALYSIS STARTING DATE : 15-11-2025

ANALYSIS COMPLETION DATE : 16-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	5.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.04	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –II** (10.210/MONTHLY)

DATE OF COLLECTION : 14-11-2025

DATE OF RECEIPT : 15-11-2025

ANALYSIS STARTING DATE : 15-11-2025

ANALYSIS COMPLETION DATE : 16-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	8.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0..05	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.11	NA	APHA 4500 PC

Note: NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-11/26

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
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P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –III** (10.210/MONTHLY)

DATE OF COLLECTION : 14-11-2025

DATE OF RECEIPT : 15-11-2025

ANALYSIS STARTING DATE : 15-11-2025

ANALYSIS COMPLETION DATE : 16-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	12.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.08	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.06	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –IV** (10.210/MONTHLY)

DATE OF COLLECTION : 14-11-2025

DATE OF RECEIPT : 15-11-2025

ANALYSIS STARTING DATE : 15-11-2025

ANALYSIS COMPLETION DATE : 16-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	<1.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.09	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.07	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-12/24 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
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P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –I** (10.210/MONTHLY)

DATE OF COLLECTION : 11-12-2025

DATE OF RECEIPT : 12-12-2025

ANALYSIS STARTING DATE : 12-12-2025

ANALYSIS COMPLETION DATE : 15-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	2.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.07	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.02	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Ref. No: SV/NTPC-SIM/25-12/25 **Dated: 06-01-2026**

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PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –II** (10.210/MONTHLY)
DATE OF COLLECTION	:	11-12-2025
DATE OF RECEIPT	:	12-12-2025
ANALYSIS STARTING DATE	:	12-12-2025
ANALYSIS COMPLETION DATE	:	15-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	12.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.09	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.05	NA	APHA 4500 PC

Note: NA Denotes Not Applicable

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PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –III** (10.210/MONTHLY)
DATE OF COLLECTION	:	11-12-2025
DATE OF RECEIPT	:	12-12-2025
ANALYSIS STARTING DATE	:	12-12-2025
ANALYSIS COMPLETION DATE	:	15-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	7.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.11	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.08	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –IV** (10.210/MONTHLY)
DATE OF COLLECTION	:	11-12-2025
DATE OF RECEIPT	:	12-12-2025
ANALYSIS STARTING DATE	:	12-12-2025
ANALYSIS COMPLETION DATE	:	15-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	3.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.13	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.10	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/24 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –I (10.210/MONTHLY)**

DATE OF COLLECTION : 31-01-2026

DATE OF RECEIPT : 31-01-2026

ANALYSIS STARTING DATE : 02-02-2026

ANALYSIS COMPLETION DATE : 03-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	5.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.04	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.09	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Ref. No: SV/NTPC-SIM/26-01/25 **Dated: 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –II** (10.210/MONTHLY)

DATE OF COLLECTION : 31-01-2026

DATE OF RECEIPT : 31-01-2026

ANALYSIS STARTING DATE : 02-02-2026

ANALYSIS COMPLETION DATE : 03-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	8.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.01	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.03	NA	APHA 4500 PC

Note: NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-01/26 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –III** (10.210/MONTHLY)

DATE OF COLLECTION : 31-01-2026

DATE OF RECEIPT : 31-01-2026

ANALYSIS STARTING DATE : 02-02-2026

ANALYSIS COMPLETION DATE : 03-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	11.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.07	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	2.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.12	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-01/27 **Dated : 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –IV** (10.210/MONTHLY)
DATE OF COLLECTION	:	31-01-2026
DATE OF RECEIPT	:	31-01-2026
ANALYSIS STARTING DATE	:	02-02-2026
ANALYSIS COMPLETION DATE	:	03-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	7.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.06	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.15	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-02/24 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –I** (10.210/MONTHLY)

DATE OF COLLECTION : 21-02-2026

DATE OF RECEIPT : 21-02-2026

ANALYSIS STARTING DATE : 23-02-2026

ANALYSIS COMPLETION DATE : 25-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	2.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.02	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.04	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Ref. No: SV/NTPC-SIM/26-02/25 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –II** (10.210/MONTHLY)
DATE OF COLLECTION	:	21-02-2026
DATE OF RECEIPT	:	21-02-2026
ANALYSIS STARTING DATE	:	23-02-2026
ANALYSIS COMPLETION DATE	:	25-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	3.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.04	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.06	NA	APHA 4500 PC

Note: NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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Ref. No : SV/NTPC-SIM/26-02/26 **Dated : 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –III** (10.210/MONTHLY)
DATE OF COLLECTION	:	21-02-2026
DATE OF RECEIPT	:	21-02-2026
ANALYSIS STARTING DATE	:	23-02-2026
ANALYSIS COMPLETION DATE	:	25-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	7.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.04	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.09	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-02/27 **Dated : 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –IV** (10.2!0/MONTHLY)
DATE OF COLLECTION	:	21-02-2026
DATE OF RECEIPT	:	21-02-2026
ANALYSIS STARTING DATE	:	23-02-2026
ANALYSIS COMPLETION DATE	:	25-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	4.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.02	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.07	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-03/24 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **BOILER BLOW DOWN –I** (10.210/MONTHLY)

DATE OF COLLECTION : 28-03-2026

DATE OF RECEIPT : 28-03-2026

ANALYSIS STARTING DATE : 30-03-2026

ANALYSIS COMPLETION DATE : 01-04-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	5.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.01	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.02	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Ref. No: SV/NTPC-SIM/26-03/25 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –II** (10.210/MONTHLY)
DATE OF COLLECTION	:	28-03-2026
DATE OF RECEIPT	:	28-03-2026
ANALYSIS STARTING DATE	:	30-03-2026
ANALYSIS COMPLETION DATE	:	01-04-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	2.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.02	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.03	NA	APHA 4500 PC

Note: NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-03/26 **Dated : 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –III** (10.210/MONTHLY)
DATE OF COLLECTION	:	28-03-2026
DATE OF RECEIPT	:	28-03-2026
ANALYSIS STARTING DATE	:	30-03-2026
ANALYSIS COMPLETION DATE	:	01-04-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	4.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.05	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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formerly known as SV ENVIRO LABS & CONSULTANTS
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Ref. No : SV/NTPC-SIM/26-03/27 **Dated : 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**BOILER BLOW DOWN –IV** (10.210/MONTHLY)
DATE OF COLLECTION	:	28-03-2026
DATE OF RECEIPT	:	28-03-2026
ANALYSIS STARTING DATE	:	30-03-2026
ANALYSIS COMPLETION DATE	:	01-04-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	Total Suspended Solids	mg/l	6.0	100	APHA, 2540-D, 24th Ed.
2	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed
3	Total Iron	mg/l	0.04	1.0	APHA, 3120-B, 24th Ed
4	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D, 5-38, 24th Ed.
5	Total Phosphate	mg/l	0.09	NA	APHA 4500 PC

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-10/14

Dated : 03-11-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10:200/QUARTERLY)**

DATE OF COLLECTION : 11-10-2025

DATE OF RECEIPT : 11-10-2025

ANALYSIS STARTING DATE : 13-10-2025

ANALYSIS COMPLETION DATE : 16-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Trivalent Chromium	mg/l	<0.01	NA	APHA, 3120-B, 24th Ed
2	Hexavalent Chromium as Cr^{+6}	mg/l	<0.1	1.0	APHA 3500 Cr-B
3	Sulphates as SO_4^{2-}	mg/l	1039	NA	APHA, 4500-SO_4^{2-} E, 24th Ed
4	Sulphide as S	mg/l	<0.1	5.0	APHA, 4500S^2D, 24th Ed
5	Phenolic Compounds as C_6H_5OH	mg/l	<0.005	5.0	APHA, 5530-C, 24th Ed
6	Cyanide as Cn	mg/l	<0.02	0.2	APHA, 4500-CN⁻ E, 24th Ed
7	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
8	Mercury as Hg	mg/l	<0.001	0.01	APHA, 3120-B, 24th Ed
9	Arsenic as As	mg/l	0.08	0.2	APHA, 3120-B, 24th Ed
10	Lead as Pb	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
11	Cadmium as Cd	mg/l	<0.001	2.0	APHA, 3120-B, 24th Ed
12	Selenium as S	mg/l	<0.005	0.05	APHA, 3120-B, 24th Ed
13	Nickel as Ni	mg/l	<0.01	50	APHA, 3120-B, 24th Ed
14	Manganese as Mn	mg/l	0.05	2	APHA, 3120-B, 24th Ed
15	Flouride as F	mg/l	0.93	15	APHA, 4500-FD, 24th Ed
16.	Chlorides as Cl	mg/l	11859	NS	APHA, 4500-Cl B, 24th Ed
17	Ammonical nitrogen as NH_3-N	mg/l	1.97	50	APHA, 4500 NH_3-B&F,24th Ed
18	Total Kjeldahl Nitrogen as N	mg/l	1.25	100	APHA, 4500 N Org B&C 24th
19	Bioassay	%	95	90% Survival of fish after 96 hours in 100% effluent	IS 6582 Part – 1

Note : NA Denotes Not Applicable

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/15 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II (10:200/QUARTERLY)**

DATE OF COLLECTION : 11-10-2025

DATE OF RECEIPT : 11-10-2025

ANALYSIS STARTING DATE : 13-10-2025

ANALYSIS COMPLETION DATE : 16-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.N	Parameters	Units	Stage - II	Standards	Test Method
1	Trivalent Chromium	mg/l	<0.01	NA	APHA, 3120-B, 23rd Ed
2	Hexavalent Chromium as Cr^{+6}	mg/l	<0.1	1.0	APHA, 3120-B, 24th Ed
3	Sulphates as SO_4^{2-}	mg/l	793	NA	APHA 3500 Cr-B
4	Sulphide as S	mg/l	<0.1	5.0	APHA, 4500-SO_4^{2-} E, 24th Ed
5	Phenolic Compounds as C_6H_5OH	mg/l	<0.005	5.0	APHA, 4500S^2D, 24th Ed
6	Cyanide as Cn	mg/l	<0.02	0.2	APHA, 5530-C, 24th Ed
7	Vanadium as V	mg/l	<0.01	0.2	APHA, 4500-CN · E, 24th Ed
8	Mercury as Hg	mg/l	<0.001	0.01	APHA, 3120-B, 24th Ed
9	Arsenic as As	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
10	Lead as Pb	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
11	Cadmium as Cd	mg/l	<0.001	2.0	APHA, 3120-B, 24th Ed
12	Selenium as S	mg/l	<0.005	0.05	APHA, 3120-B, 24th Ed
13	Nickel as Ni	mg/l	<0.01	50	APHA, 3120-B, 24th Ed
14	Manganese as Mn	mg/l	<0.01	2	APHA, 3120-B, 24th Ed
15	Flouride as F	mg/l	1.08	15	APHA, 3120-B, 24th Ed
16	Chlorides as Cl	mg/l	12752	NS	APHA, 4500-Cl B, 24th Ed
17	Ammonical nitrogen as NH_3-N	mg/l	2.58	50	APHA, 4500 NH_3-B&F,24th
18	Total Kjeldahl Nitrogen as N	mg/l	1.71	100	APHA, 4500 N Org B&C
19	Bioassay	%	95	90% Survival of fish after 96 hours in 100% effluent	IS 6582 Part – 1

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/14

Dated : 02-12-2025

ISSUED TO :

M/s. NTPC LIMITED,
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10.190/MONTHLY)**

DATE OF COLLECTION : 08-11-2025

DATE OF RECEIPT : 08-11-2025

ANALYSIS STARTING DATE : 10-11-2025

ANALYSIS COMPLETION DATE : 14-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	29.1	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.75	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	54250	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	10.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	32980	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	150	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	55.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.4	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.15	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.04	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.20	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.8	NA	-

Note : NA Denotes Not Applicable

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/15

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II** (10.190/MONTHLY)

DATE OF COLLECTION : 08-11-2025

DATE OF RECEIPT : 08-11-2025

ANALYSIS STARTING DATE : 10-11-2025

ANALYSIS COMPLETION DATE : 14-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	28.7	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.03	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	60646	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	20.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	36710	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand – COD	mg/l	50.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	17.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.5	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	2.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.06	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.07	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.22	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.6	NA	-

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/16

Dated : 02-12-2025

ISSUED TO :

M/s. NTPC LIMITED,
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I** (10.190/MONTHLY)

DATE OF COLLECTION : 14-11-2025

DATE OF RECEIPT : 15-11-2025

ANALYSIS STARTING DATE : 15-11-2025

ANALYSIS COMPLETION DATE : 18-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	28.5	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	6.81	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	54520	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	8.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	32730	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	70.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	22.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.4	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.07	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	0.06	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.10	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.18	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.1	NA	-

Note : NA Denotes Not Applicable

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/17

Dated : 02-12-2025

ISSUED TO :

M/s. NTPC LIMITED,
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II (10.190/MONTHLY)**

DATE OF COLLECTION : 14-11-2025

DATE OF RECEIPT : 15-11-2025

ANALYSIS STARTING DATE : 15-11-2025

ANALYSIS COMPLETION DATE : 18-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	29.3	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.41	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	60350	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	21.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	36120	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	80.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	25.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.7	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.19	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	0.02	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.06	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.12	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	3.3	NA	-

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/18

Dated : 02-12-2025

ISSUED TO :

M/s. NTPC LIMITED,
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10.190/MONTHLY)**

DATE OF COLLECTION : 24-11-2025

DATE OF RECEIPT : 24-11-2025

ANALYSIS STARTING DATE : 25-11-2025

ANALYSIS COMPLETION DATE : 29-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	28.5	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.29	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	57462	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	5.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	34890	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	100	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	32.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	5.0	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	3.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.07	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.05	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.16	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.5	NA	-

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/19

Dated : 02-12-2025

ISSUED TO :

M/s. NTPC LIMITED,
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II** (10.190/MONTHLY)

DATE OF COLLECTION : 24-11-2025

DATE OF RECEIPT : 24-11-2025

ANALYSIS STARTING DATE : 25-11-2025

ANALYSIS COMPLETION DATE : 29-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	29.2	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.15	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	54130	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	8.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	31240	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	20.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	6.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.2	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.01	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.31	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.0	NA	-

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/14 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10.190/MONTHLY)**

DATE OF COLLECTION : 08-12-2025

DATE OF RECEIPT : 09-12-2025

ANALYSIS STARTING DATE : 09-12-2025

ANALYSIS COMPLETION DATE : 13-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	28.6	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	6.93	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	56803	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	4.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	34097	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	180	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	64.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.9	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	2.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.23	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.07	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.29	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	5.2	NA	-

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072
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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/15 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II (10.190/MONTHLY)**

DATE OF COLLECTION : 08-12-2025

DATE OF RECEIPT : 09-12-2025

ANALYSIS STARTING DATE : 09-12-2025

ANALYSIS COMPLETION DATE : 13-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	29.2	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.14	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	59472	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	18.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	35810	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand – COD	mg/l	110	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	38.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.9	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	3.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.13	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.04	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.15	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	5.4	NA	-

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/16 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10.190/MONTHLY)**

DATE OF COLLECTION : 11-12-2025

DATE OF RECEIPT : 12-12-2025

ANALYSIS STARTING DATE : 12-12-2025

ANALYSIS COMPLETION DATE : 15-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	°C	29.8	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.29	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	56582	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	6.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	33961	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	150	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	60.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.1	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.04	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.06	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.27	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.7	NA	-

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/17 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II** (10.190/MONTHLY)

DATE OF COLLECTION : 11-12-2025

DATE OF RECEIPT : 12-12-2025

ANALYSIS STARTING DATE : 12-12-2025

ANALYSIS COMPLETION DATE : 15-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	29.6	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.02	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	61720	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	11.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	37094	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	130	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	47.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	5.0	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	2.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.28	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.19	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.3	NA	-

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072
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Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/18 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I** (10.190/MONTHLY)

DATE OF COLLECTION : 31-12-2025

DATE OF RECEIPT : 31-12-2025

ANALYSIS STARTING DATE : 01-01-2026

ANALYSIS COMPLETION DATE : 05-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	28.8	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	6.90	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	56094	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	2.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	33712	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	90.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	34.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.6	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.14	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.02	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.08	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	3.8	NA	-

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/19 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II (10.190/MONTHLY)**

DATE OF COLLECTION : 31-12-2025

DATE OF RECEIPT : 31-12-2025

ANALYSIS STARTING DATE : 01-01-2026

ANALYSIS COMPLETION DATE : 05-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	29.4	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	6.88	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	51473	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	3.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	30915	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	40.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	12.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.7	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.05	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.02	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.18	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent		3.7	NA	-

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/14 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10:200/QUARTERLY)**

DATE OF COLLECTION : 07-01-2026

DATE OF RECEIPT : 08-01-2026

ANALYSIS STARTING DATE : 08-01-2026

ANALYSIS COMPLETION DATE : 12-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Trivalent Chromium	mg/l	<0.01	NA	APHA, 3120-B, 24th Ed
2	Hexavalent Chromium as Cr^{+6}	mg/l	<0.1	1.0	APHA 3500 Cr-B
3	Sulphates as SO_4^{2-}	mg/l	1159	NA	APHA, 4500-SO_4^{2-} E, 24th Ed
4	Sulphide as S	mg/l	<0.1	5.0	APHA, 4500S^2D, 24th Ed
5	Phenolic Compounds as C_6H_5OH	mg/l	<0.005	5.0	APHA, 5530-C, 24th Ed
6	Cyanide as Cn	mg/l	<0.02	0.2	APHA, 4500-CN^- E, 24th Ed
7	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
8	Mercury as Hg	mg/l	<0.001	0.01	APHA, 3120-B, 24th Ed
9	Arsenic as As	mg/l	0.04	0.2	APHA, 3120-B, 24th Ed
10	Lead as Pb	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
11	Cadmium as Cd	mg/l	<0.001	2.0	APHA, 3120-B, 24th Ed
12	Selenium as S	mg/l	<0.005	0.05	APHA, 3120-B, 24th Ed
13	Nickel as Ni	mg/l	<0.01	50	APHA, 3120-B, 24th Ed
14	Manganese as Mn	mg/l	0.09	2	APHA, 3120-B, 24th Ed
15	Flouride as F	mg/l	1.24	15	APHA, 4500-FD, 24th Ed
16.	Chlorides as Cl	mg/l	13971	NS	APHA, 4500-Cl B, 24th Ed
17	Ammonical nitrogen as NH_3-N	mg/l	2.53	50	APHA, 4500 NH_3-B&F,24th Ed
18	Total Kjeldahl Nitrogen as N	mg/l	1.98	100	APHA, 4500 N Org B&C 24th
19	Bioassay	%	95	90% Survival of fish after 96 hours in 100% effluent	IS 6582 Part – 1

Note : NA Denotes Not Applicable

Enviro Labs & Research P. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/15 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II (10:200/QUARTERLY)**

DATE OF COLLECTION : 07-01-2026

DATE OF RECEIPT : 08-01-2026

ANALYSIS STARTING DATE : 08-01-2026

ANALYSIS COMPLETION DATE : 12-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.N	Parameters	Units	Stage - II	Standards	Test Method
1	Trivalent Chromium	mg/l	<0.01	NA	APHA, 3120-B, 23rd Ed
2	Hexavalent Chromium as Cr^{+6}	mg/l	<0.1	1.0	APHA, 3120-B, 24th Ed
3	Sulphates as SO_4^{2-}	mg/l	853	NA	APHA 3500 Cr-B
4	Sulphide as S	mg/l	<0.1	5.0	APHA, 4500-SO_4^{2-} E, 24th Ed
5	Phenolic Compounds as C_6H_5OH	mg/l	<0.005	5.0	APHA, 4500S^2D, 24th Ed
6	Cyanide as Cn	mg/l	<0.02	0.2	APHA, 5530-C, 24th Ed
7	Vanadium as V	mg/l	<0.01	0.2	APHA, 4500-CN^- E, 24th Ed
8	Mercury as Hg	mg/l	<0.001	0.01	APHA, 3120-B, 24th Ed
9	Arsenic as As	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
10	Lead as Pb	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
11	Cadmium as Cd	mg/l	<0.001	2.0	APHA, 3120-B, 24th Ed
12	Selenium as S	mg/l	<0.005	0.05	APHA, 3120-B, 24th Ed
13	Nickel as Ni	mg/l	<0.01	50	APHA, 3120-B, 24th Ed
14	Manganese as Mn	mg/l	<0.01	2	APHA, 3120-B, 24th Ed
15	Flouride as F	mg/l	0.87	15	APHA, 3120-B, 24th Ed
16	Chlorides as Cl	mg/l	10983	NS	APHA, 4500-Cl B, 24th Ed
17	Ammonical nitrogen as NH_3-N	mg/l	2.12	50	APHA, 4500 NH_3-B&F,24th
18	Total Kjeldahl Nitrogen as N	mg/l	1.39	100	APHA, 4500 N Org B&C
19	Bioassay	%	95	90% Survival of fish after 96 hours in 100% effluent	IS 6582 Part – 1

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

CHECKED BY **AUTHORIZED SIGNATORY**

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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PAN: ABOCS0643F
CIN: U74909AP2025PTC119098

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/14 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10.190/MONTHLY)**

DATE OF COLLECTION : 07-01-2026

DATE OF RECEIPT : 08-01-2026

ANALYSIS STARTING DATE : 08-01-2026

ANALYSIS COMPLETION DATE : 12-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	28.0	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.91	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	63581	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	11.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	38104	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	70.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD (3 days Incubation at 27^{0}C)	mg/l	26.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.1	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	3.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.39	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.09	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.16	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	3.9	NA	-

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/15 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II (10.190/MONTHLY)**

DATE OF COLLECTION : 07-01-2026

DATE OF RECEIPT : 08-01-2026

ANALYSIS STARTING DATE : 08-01-2026

ANALYSIS COMPLETION DATE : 12-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	°C	28.4	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.40	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	60971	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	7.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	36569	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand – COD	mg/l	40.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	15.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.5	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.15	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.06	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.20	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.2	NA	-

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/16 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I** (10.190/MONTHLY)

DATE OF COLLECTION : 17-01-2026

DATE OF RECEIPT : 17-01-2026

ANALYSIS STARTING DATE : 19-01-2026

ANALYSIS COMPLETION DATE : 22-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	29.2	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.83	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	70631	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	14.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	42359	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	90.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	32.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.9	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	2.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.07	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.04	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.32	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.1	NA	-

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS

Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/17 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II (10.190/MONTHLY)**

DATE OF COLLECTION : 17-01-2026

DATE OF RECEIPT : 17-01-2026

ANALYSIS STARTING DATE : 19-01-2026

ANALYSIS COMPLETION DATE : 22-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	28.4	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.25	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	65963	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	4.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	39471	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	55.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	19.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.4	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.15	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.05	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.11	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.7	NA	-

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/18 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10.190/MONTHLY)**

DATE OF COLLECTION : 31-01-2026

DATE OF RECEIPT : 31-01-2026

ANALYSIS STARTING DATE : 02-02-2026

ANALYSIS COMPLETION DATE : 05-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	28.0	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.86	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	62195	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	9.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	37296	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	45.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	16.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.0	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.08	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.05	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.10	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.3	NA	-

Note : NA Denotes Not Applicable

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/19 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II (10.190/MONTHLY)**

DATE OF COLLECTION : 31-01-2026

DATE OF RECEIPT : 31-01-2026

ANALYSIS STARTING DATE : 02-02-2026

ANALYSIS COMPLETION DATE : 05-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	29.2	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.15	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	59741	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	7.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	35744	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	60.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	22.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.9	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.09	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.11	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	3.4	NA	-

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072
Website: www.svenvirolabs.com
E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in
Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/14 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10.190/MONTHLY)**

DATE OF COLLECTION : 09-02-2026

DATE OF RECEIPT : 09-02-2026

ANALYSIS STARTING DATE : 10-02-2026

ANALYSIS COMPLETION DATE : 13-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	29.6	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.14	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	60281	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	6.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	34971	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	40.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD (3 days Incubation at 27^{0}C)	mg/l	15.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.9	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	2.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.28	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.05	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.10	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	3.5	NA	-

Note : NA Denotes Not Applicable

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

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Ref. No : SV/NTPC-SIM/26-02/15 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II** (10.190/MONTHLY)

DATE OF COLLECTION : 09-02-2026

DATE OF RECEIPT : 09-02-2026

ANALYSIS STARTING DATE : 10-02-2026

ANALYSIS COMPLETION DATE : 13-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	29.0	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	6.94	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	52718	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	2.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	30591	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand – COD	mg/l	20.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	7.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.1	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.08	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.11	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	3.9	NA	-

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/16 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I** (10.190/MONTHLY)

DATE OF COLLECTION : 21-02-2026

DATE OF RECEIPT : 21-02-2026

ANALYSIS STARTING DATE : 23-02-2026

ANALYSIS COMPLETION DATE : 26-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	28.6	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.51	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	65683	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	9.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	38129	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	60.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	21.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.3	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.04	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.02	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.19	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.0	NA	-

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/17 **Dated : 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**EDP EFFLUENT SAMPLE – II** (10.190/MONTHLY)
DATE OF COLLECTION	:	21-02-2026
DATE OF RECEIPT	:	21-02-2026
ANALYSIS STARTING DATE	:	23-02-2026
ANALYSIS COMPLETION DATE	:	26-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	28.2	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.09	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	61973	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	1.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	35961	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	30.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	11.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.1	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.08	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.09	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent		4.2	NA	-

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

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Ref. No : SV/NTPC-SIM/26-02/18 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I** (10.190/MONTHLY)

DATE OF COLLECTION : 28-02-2026

DATE OF RECEIPT : 28-02-2026

ANALYSIS STARTING DATE : 02-03-2026

ANALYSIS COMPLETION DATE : 05-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	29.0	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.96	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	58263	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	13.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	33815	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	70.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	26.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.7	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.09	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.07	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.05	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	3.7	NA	-

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/19 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II (10.190/MONTHLY)**

DATE OF COLLECTION : 28-02-2026

DATE OF RECEIPT : 28-02-2026

ANALYSIS STARTING DATE : 02-03-2026

ANALYSIS COMPLETION DATE : 05-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	28.4	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	6.90	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	53396	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	5.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	30994	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	20.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	8.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.3	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.19	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.07	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.15	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent		4.7	NA	-

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

CHECKED BY **AUTHORIZED SIGNATORY**

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM26-03/14 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10.190/MONTHLY)**

DATE OF COLLECTION : 11-03-2026

DATE OF RECEIPT : 12-03-2026

ANALYSIS STARTING DATE : 12-03-2026

ANALYSIS COMPLETION DATE : 16-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	28.4	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.63	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	53388	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	4.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	30971	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	70.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD (3 days Incubation at 27^{0}C)	mg/l	25.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.7	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	3.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.37	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.07	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.02	NA	-

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM26-03/15 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II (10.190/MONTHLY)**

DATE OF COLLECTION : 11-03-2026

DATE OF RECEIPT : 12-03-2026

ANALYSIS STARTING DATE : 12-03-2026

ANALYSIS COMPLETION DATE : 16-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	28.2	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.27	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	49516	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	5.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	28741	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand – COD	mg/l	40.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	13.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.5	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.05	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.05	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.09	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	3.70	NA	-

Note : NA Denotes Not Applicable

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS

Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM26-03/16 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10.190/MONTHLY)**

DATE OF COLLECTION : 20-03-2026

DATE OF RECEIPT : 20-03-2026

ANALYSIS STARTING DATE : 21-03-2026

ANALYSIS COMPLETION DATE : 24-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	°C	29.4	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.15	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	58136	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	6.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	33719	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	50.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	18.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.92	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.07	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.06	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.15	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.15	NA	-

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM26-03/17 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II** (10.190/MONTHLY)

DATE OF COLLECTION : 20-03-2026

DATE OF RECEIPT : 20-03-2026

ANALYSIS STARTING DATE : 21-03-2026

ANALYSIS COMPLETION DATE : 24-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	28.8	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.23	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	53396	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	3.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	30982	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	20.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	8.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.27	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.04	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.06	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.04	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	3.94	NA	-

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM26-03/18 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – I (10.190/MONTHLY)**

DATE OF COLLECTION : 28-03-2026

DATE OF RECEIPT : 28-03-2026

ANALYSIS STARTING DATE : 30-03-2026

ANALYSIS COMPLETION DATE : 02-04-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - I	Standards	Test Method
1	Temperature	^{0}C	29.2	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.61	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	51612	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	9.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	29972	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	85.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	31.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.90	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.11	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.08	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.20	NA	-

Note : NA Denotes Not Applicable

CHECKED BY

Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
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Ref. No : SV/NTPC-SIM26-03/19 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **EDP EFFLUENT SAMPLE – II** (10.190/MONTHLY)

DATE OF COLLECTION : 28-03-2026

DATE OF RECEIPT : 28-03-2026

ANALYSIS STARTING DATE : 30-03-2026

ANALYSIS COMPLETION DATE : 02-04-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Stage - II	Standards	Test Method
1	Temperature	^{0}C	29.0	-	APHA, 4500-H+B, 24th Ed.
2	pH	-	7.27	6.50 – 8.50	APHA, 4500-H+B, 24th Ed.
3	Electrical Conductivity	µs/cm	47574	NA	APHA – 2510 B, 24th Ed.
4	Total Suspended Solids	mg/l	2.0	100	APHA, 2540-D, 24th Ed.
5	Total Dissolved Solids	mg/l	27593	NA	APHA, 2540-C, 24th Ed.
6	Chemical Oxygen Demand - COD	mg/l	10.0	NA	APHA, 5220 B, 24th Ed.
7	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	3.0	NA	IS:3025 (Part-44)
8	Dissolved Oxygen - DO	mg/l	4.0	NA	APHA, 4500-DC, 24th Ed.
9	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.
10	Phosphates	mg/l	0.10	20	APHA 4500 PC
11	Total Chromium	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed.
12	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B, 24th Ed.
13	Zinc as Zn	mg/l	0.03	1.0	APHA, 3120-B, 24th Ed.
14	Iron as Fe	mg/l	0.07	1.0	APHA, 3120-B, 24th Ed.
15	Residual Chlorine	mg/l	<0.1	0.5	IS 3025 P:26:1986, (RA:2003)
16	Differential temperature between Intake and Effluent	-	4.30	NA	-

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/20 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **ASH POND EFFLUENT – I (10.100/MONTHLY)**

DATE OF COLLECTION : 09-10-2025

DATE OF RECEIPT : 09-10-2025

ANALYSIS STARTING DATE : 10-10-2025

ANALYSIS COMPLETION DATE : 14-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	6.94	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	52613	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	29.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	31568	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand – COD	mg/l	90.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	32.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/21 **Dated : 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – II (10.100/MONTHLY)**
DATE OF COLLECTION	:	09-10-2025
DATE OF RECEIPT	:	09-10-2025
ANALYSIS STARTING DATE	:	10-10-2025
ANALYSIS COMPLETION DATE	:	14-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.19	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	47715	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	16.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	28631	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	50.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	18.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/22 **Dated : 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – I (10.100/MONTHLY)**
DATE OF COLLECTION	:	21-10-2025
DATE OF RECEIPT	:	21-10-2025
ANALYSIS STARTING DATE	:	22-10-2025
ANALYSIS COMPLETION DATE	:	25-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.71	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	49625	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	21.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	29835	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	80.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	29.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072
Website: www.svenvirolabs.com
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Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/23 **Dated : 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – II (10.100/MONTHLY)**
DATE OF COLLECTION	:	21-10-2025
DATE OF RECEIPT	:	21-10-2025
ANALYSIS STARTING DATE	:	22-10-2025
ANALYSIS COMPLETION DATE	:	25-10-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.08	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	50971	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	63.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	30659	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	110	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^0C	mg/l	42.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/20

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **ASH POND EFFLUENT – I (10.100/MONTHLY)**

DATE OF COLLECTION : 12-11-2025

DATE OF RECEIPT : 12-11-2025

ANALYSIS STARTING DATE : 13-11-2025

ANALYSIS COMPLETION DATE : 17-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.23	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	55780	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	36.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	32940	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand – COD	mg/l	130	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	44.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	3.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/21

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **ASH POND EFFLUENT – II (10.100/MONTHLY)**

DATE OF COLLECTION : 12-11-2025

DATE OF RECEIPT : 12-11-2025

ANALYSIS STARTING DATE : 13-11-2025

ANALYSIS COMPLETION DATE : 17-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.38	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	48630	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	22.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	29410	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	70.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^0C	mg/l	23.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Ref. No : SV/NTPC-SIM/25-11/22

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **ASH POND EFFLUENT – I (10.100/MONTHLY)**

DATE OF COLLECTION : 26-11-2025

DATE OF RECEIPT : 26-11-2025

ANALYSIS STARTING DATE : 27-11-2025

ANALYSIS COMPLETION DATE : 01-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.62	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	50850	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	27.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	30360	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	90.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^0C	mg/l	32.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/23

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **ASH POND EFFLUENT – II (10.100/MONTHLY)**

DATE OF COLLECTION : 26-11-2025

DATE OF RECEIPT : 26-11-2025

ANALYSIS STARTING DATE : 27-11-2025

ANALYSIS COMPLETION DATE : 01-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.16	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	52140	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	70.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	31450	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	140	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^0C	mg/l	50.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-12/20 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **ASH POND EFFLUENT – I (10.100/MONTHLY)**

DATE OF COLLECTION : 11-12-2025

DATE OF RECEIPT : 12-12-2025

ANALYSIS STARTING DATE : 12-12-2025

ANALYSIS COMPLETION DATE : 16-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	6.97	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	46593	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	21.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	27961	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand – COD	mg/l	80.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	29.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	4.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/21 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **ASH POND EFFLUENT – II (10.100/MONTHLY)**

DATE OF COLLECTION : 11-12-2025

DATE OF RECEIPT : 12-12-2025

ANALYSIS STARTING DATE : 12-12-2025

ANALYSIS COMPLETION DATE : 16-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.10	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	51097	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	13.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	30729	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	40.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^0C	mg/l	15.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/22 **Dated : 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – I (10.100/MONTHLY)**
DATE OF COLLECTION	:	23-12-2025
DATE OF RECEIPT	:	23-12-2025
ANALYSIS STARTING DATE	:	24-12-2025
ANALYSIS COMPLETION DATE	:	27-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.79	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	53250	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	39.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	31952	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	30.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	12.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/23 **Dated : 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – II (10.100/MONTHLY)**
DATE OF COLLECTION	:	23-12-2025
DATE OF RECEIPT	:	23-12-2025
ANALYSIS STARTING DATE	:	24-12-2025
ANALYSIS COMPLETION DATE	:	27-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.39	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	55116	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	63.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	33081	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	105	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^0C	mg/l	38.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS

Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/20 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – I (10.100/MONTHLY)**
DATE OF COLLECTION	:	11-03-2026
DATE OF RECEIPT	:	12-03-2026
ANALYSIS STARTING DATE	:	12-03-2026
ANALYSIS COMPLETION DATE	:	16-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.53	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	44770	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	11.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	25967	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand – COD	mg/l	40.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD (3 days Incubation at 27^0C)	mg/l	15.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Sv Enviro Labs & Research Pvt. Ltd. VSP-12

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Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

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Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/21 **Dated : 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – II (10.100/MONTHLY)**
DATE OF COLLECTION	:	11-03-2026
DATE OF RECEIPT	:	12-03-2026
ANALYSIS STARTING DATE	:	12-03-2026
ANALYSIS COMPLETION DATE	:	16-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.98	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	49651	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	8.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	28797	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	20.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD (3 days Incubation at 27^{0}C)	mg/l	7.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/22 **Dated : 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – I (10.100/MONTHLY)**
DATE OF COLLECTION	:	24-03-2026
DATE OF RECEIPT	:	24-03-2026
ANALYSIS STARTING DATE	:	25-03-2026
ANALYSIS COMPLETION DATE	:	28-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.74	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	47158	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	29.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	27351	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	55.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD (3 days Incubation at 27^0C)	mg/l	21.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	3.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/23 **Dated : 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – II (10.100/MONTHLY)**
DATE OF COLLECTION	:	24-03-2026
DATE OF RECEIPT	:	24-03-2026
ANALYSIS STARTING DATE	:	25-03-2026
ANALYSIS COMPLETION DATE	:	28-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.61	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	50943	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	22.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	29547	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	35.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	12.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/20 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **ASH POND EFFLUENT – I (10.100/MONTHLY)**

DATE OF COLLECTION : 09-01-2026

DATE OF RECEIPT : 10-01-2026

ANALYSIS STARTING DATE : 10-01-2026

ANALYSIS COMPLETION DATE : 13-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.63	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	55127	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	38.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	33059	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand – COD	mg/l	105	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^0C	mg/l	41.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-01/21 **Dated : 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – II (10.100/MONTHLY)**
DATE OF COLLECTION	:	09-01-2026
DATE OF RECEIPT	:	10-01-2026
ANALYSIS STARTING DATE	:	10-01-2026
ANALYSIS COMPLETION DATE	:	13-01-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.59	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	58963	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	24.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	35297	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	60.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	22.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-01/22 **Dated : 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – I (10.100/MONTHLY)**
DATE OF COLLECTION	:	24-01-2026
DATE OF RECEIPT	:	24-01-2026
ANALYSIS STARTING DATE	:	27-01-2026
ANALYSIS COMPLETION DATE	:	30-01-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.93	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	60481	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	16.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	36188	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	90.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	32.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	3.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-01/23 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **ASH POND EFFLUENT – II (10.100/MONTHLY)**

DATE OF COLLECTION : 24-01-2026

DATE OF RECEIPT : 24-01-2026

ANALYSIS STARTING DATE : 27-01-2026

ANALYSIS COMPLETION DATE : 30-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	8.01	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	56973	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	42.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	34153	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	80.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^{0}C	mg/l	29.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-02/20 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – I (10.100/MONTHLY)**
DATE OF COLLECTION	:	11-02-2026
DATE OF RECEIPT	:	11-02-2026
ANALYSIS STARTING DATE	:	12-02-2026
ANALYSIS COMPLETION DATE	:	16-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.81	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	49502	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	23.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	28713	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand – COD	mg/l	60.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD (3 days Incubation at 27^{0}C)	mg/l	22.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	3.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-02/21 **Dated : 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – II (10.100/MONTHLY)**
DATE OF COLLECTION	:	11-02-2026
DATE OF RECEIPT	:	11-02-2026
ANALYSIS STARTING DATE	:	12-02-2026
ANALYSIS COMPLETION DATE	:	16-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.65	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	53418	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	16.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	30985	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	40.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD (3 days Incubation at 27^0C)	mg/l	15.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-02/22 **Dated : 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – I (10.100/MONTHLY)**
DATE OF COLLECTION	:	23-02-2026
DATE OF RECEIPT	:	23-02-2026
ANALYSIS STARTING DATE	:	24-02-2026
ANALYSIS COMPLETION DATE	:	27-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.96	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	50793	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	33.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	29512	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	75.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD (3 days Incubation at 27^0C)	mg/l	29.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-02/23 **Dated : 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**ASH POND EFFLUENT – II (10.100/MONTHLY)**
DATE OF COLLECTION	:	23-02-2026
DATE OF RECEIPT	:	23-02-2026
ANALYSIS STARTING DATE	:	24-02-2026
ANALYSIS COMPLETION DATE	:	27-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No	Parameters	Units	Result	Standards	Test Method
1	pH	-	7.29	6.5 – 8.5	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	55317	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	13.0	100	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	32096	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	50.0	NA	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^0C	mg/l	18.0	NA	IS:3025 (Part-44)
7	Oil & Grease	mg/l	1.0	20	APHA, 5520-D,5-38, 24th Ed.

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-10/11

Dated : 03-11-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant (10:180/QUARTERLY)**

DATE OF COLLECTION : 11-10-2025

DATE OF RECEIPT : 11-10-2025

ANALYSIS STARTING DATE : 13-10-2025

ANALYSIS COMPLETION DATE : 16-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1.	Trivalent Chromium	mg/l	<0.01	NA	APHA, 3120-B, 24th Ed
2.	Hexavalent Chromium as Cr^{+6}	mg/l	<0.1	1.0	APHA 3500 Cr-B
3.	Sulphates as SO_4^{2-}	mg/l	219	NA	APHA, 4500-SO_4^{2-} E, 24th Ed
4.	Sulphide as S	mg/l	<0.1	5.0	APHA, 4500S^2D, 24th Ed
5.	Phenolic Compounds as C_6H_5OH	mg/l	<0.005	5.0	APHA, 5530-C, 24th Ed
6.	Cyanide as Cn	mg/l	<0.02	0.2	APHA, 4500-CN^- E, 24th Ed
7.	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
8.	Mercury as Hg	mg/l	<0.001	0.01	APHA, 3120-B, 24th Ed
9.	Arsenic as As	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
10.	Lead as Pb	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
11.	Cadmium as Cd	mg/l	<0.001	2.0	APHA, 3120-B, 24th Ed
12.	Selenium as S	mg/l	<0.005	0.05	APHA, 3120-B, 24th Ed
13.	Nickel as Ni	mg/l	<0.01	50	APHA, 3120-B, 24th Ed
14.	Manganese as Mn	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
15.	Flouride as F	mg/l	0.25	15	APHA, 4500-FD,24th Ed
16.	Copper as Cu	mg/l	<0.01	30	APHA, 3120-B, 24th Ed
17.	Zinc as Zn	mg/l	0.04	15	APHA, 3120-B, 24th Ed
18.	Chlorides as Cl	mg/l	397	NA	APHA, 4500-Cl B, 24th Ed
19.	Bioassay	%	95	90% Survival of fish after 96 hours in 100% effluent	IS 6582 Part – 1

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-10/11 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 11-10-2025

DATE OF RECEIPT : 11-10-2025

ANALYSIS STARTING DATE : 13-10-2025

ANALYSIS COMPLETION DATE : 16-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.95	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	2257	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	8.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1374	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.03	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.01	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	0.81	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.27	NA	APHA 4500 N Org B & C, 24th
13	Fecal Coliform	MPN/ 100ml	29	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1190	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.31	NA	APHA, 24th Ed. 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-10/12 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 20-10-2025

DATE OF RECEIPT : 20-10-2025

ANALYSIS STARTING DATE : 21-10-2025

ANALYSIS COMPLETION DATE : 24-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.18	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	2596	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	11.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1592	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	25.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	8.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.10	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.05	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	1.29	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.14	NA	APHA 4500 N Org B & C, 24th
13	Fecal Coliform	MPN/ 100ml	35	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1250	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.39	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/13 **Dated : 03-11-2025**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – Main Plant** (10.170/MONTHLY)
DATE OF COLLECTION	:	28-10-2025
DATE OF RECEIPT	:	28-10-2025
ANALYSIS STARTING DATE	:	29-10-2025
ANALYSIS COMPLETION DATE	:	01-11-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.28	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	2237	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	4.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1385	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	20.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	7.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.01	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.03	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	0.49	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.15	NA	APHA 4500 N Org B & C, 24thEd
13	Fecal Coliform	MPN/ 100ml	38	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1090	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.24	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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AUTHORIZED SIGNATORY

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/50 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township (10:180/QUARTERLY)**

DATE OF COLLECTION : 21-10-2025

DATE OF RECEIPT : 22-10-2025

ANALYSIS STARTING DATE : 22-10-2025

ANALYSIS COMPLETION DATE : 27-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	Trivalent Chromium	mg/l	<0.01	NA	APHA, 3120-B, 24th Ed
2	Hexavalent Chromium as Cr^{+6}	mg/l	<0.1	1.0	APHA 3500 Cr-B
3	Sulphates as SO_4^{2-}	mg/l	47.9	NA	APHA, 4500-SO_4^{2-} E, 24th
4	Sulphide as S	mg/l	0.08	5.0	APHA, 4500S^2D, 24th Ed
5	Phenolic Compounds as C_6H_5OH	mg/l	<0.005	5.0	APHA, 5530-C, 24th Ed
6	Cyanide as Cn	mg/l	<0.02	0.2	APHA, 4500-CN⁻ E, 24th
7	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
8	Mercury as Hg	mg/l	<0.001	0.01	APHA, 3120-B, 24th Ed
9	Arsenic as As	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
10	Lead as Pb	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
11	Cadmium as Cd	mg/l	<0.001	2.0	APHA, 3120-B, 24th Ed
12	Selenium as S	mg/l	<0.005	0.05	APHA, 3120-B, 24th Ed
13	Nickel as Ni	mg/l	<0.01	50	APHA, 3120-B, 24th Ed
14	Manganese as Mn	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
15	Flouride as F	mg/l	0.16	15	APHA, 4500-FD,24th Ed
16	Copper as Cu	mg/l	<0.01	30	APHA, 3120-B, 24th Ed
17	Zinc as Zn	mg/l	<0.01	15	APHA, 3120-B, 24th Ed
18	Bioassay	%	95	90% Survival of fish after 96 hours in 100% effluent	IS 6582 Part – 1

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/50 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 08-10-2025

DATE OF RECEIPT : 08-10-2025

ANALYSIS STARTING DATE : 09-10-2025

ANALYSIS COMPLETION DATE : 13-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.15	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1863	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	43.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1158	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	210	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^0C	mg/l	72.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	6.14	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	12.9	APHA 4500 PC
10	Dissolved Phosphate	mg/l	10.8	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.59	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$06X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	983	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.19	APHA, 24th Ed, 2023

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
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Ref. No : SV/NTPC-SIM/25-10/51 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 08-10-2025

DATE OF RECEIPT : 08-10-2025

ANALYSIS STARTING DATE : 09-10-2025

ANALYSIS COMPLETION DATE : 13-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.12	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1438	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	5.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	947	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	40.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	8.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.03	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.12	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.34	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	0.59	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	70	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	796	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.05	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-10/52 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.49	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1628	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	36.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1037	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	140	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	54.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	3.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	3.57	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	7.92	APHA 4500 PC
10	Dissolved Phosphate	mg/l	11.8	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	2.71	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$17X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1019	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.25	APHA, 24th Ed, 2023

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/53 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 14-10-2025

DATE OF RECEIPT : 14-10-2025

ANALYSIS STARTING DATE : 15-10-2025

ANALYSIS COMPLETION DATE : 18-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.91	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1357	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	2.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	853	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	0.29	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.01	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.04	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.39	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	55	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	997	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS-d	0.23	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

CHECKED BY

Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/54 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 21-10-2025

DATE OF RECEIPT : 22-10-2025

ANALYSIS STARTING DATE : 22-10-2025

ANALYSIS COMPLETION DATE : 27-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.51	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	2097	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	11.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1328	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	180	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	64.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	4.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	5.18	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	15.3	APHA 4500 PC
10	Dissolved Phosphate	mg/l	11.7	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	4.12	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$14X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1120	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.34	APHA, 24th Ed, 2023

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AUTHORIZED SIGNATORY

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/55 **Dated : 03-11-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 21-10-2025

DATE OF RECEIPT : 22-10-2025

ANALYSIS STARTING DATE : 22-10-2025

ANALYSIS COMPLETION DATE : 27-10-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.08	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1072	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	9.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	994	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	20.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	7.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.12	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.24	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.11	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	0.96	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	110	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	920	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.19	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

CHECKED BY

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AUTHORIZED SIGNATORY

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/11

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 08-11-2025

DATE OF RECEIPT : 08-11-2025

ANALYSIS STARTING DATE : 10-11-2025

ANALYSIS COMPLETION DATE : 14-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.79	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	2410	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	12.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1450	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	20.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	5.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.05	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.02	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	0.87	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.33	NA	APHA 4500 N Org B & C, 24th
13	Fecal Coliform	MPN/ 100ml	34	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1230	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.28	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/12

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 14-11-2025

DATE OF RECEIPT : 15-11-2025

ANALYSIS STARTING DATE : 15-11-2025

ANALYSIS COMPLETION DATE : 18-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.03	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	2760	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	14.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1730	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.13	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.08	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	1.54	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.19	NA	APHA 4500 N Org B & C, 24th
13	Fecal Coliform	MPN/ 100ml	40	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1280	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS.d	0.35	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-10/13

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 24-11-2025

DATE OF RECEIPT : 24-11-2025

ANALYSIS STARTING DATE : 25-11-2025

ANALYSIS COMPLETION DATE : 29-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.12	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	2506	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	6.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1440	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	30.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	8.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.02	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.05	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	0.54	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.19	NA	APHA 4500 N Org B & C, 24thEd
13	Fecal Coliform	MPN/ 100ml	42	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1120	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.21	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

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Ref. No : SV/NTPC-SIM/25-11/50

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 08-11-2025

DATE OF RECEIPT : 08-11-2025

ANALYSIS STARTING DATE : 10-11-2025

ANALYSIS COMPLETION DATE : 14-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.29	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1620	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	38.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1030	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	180	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^0C	mg/l	65.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	1.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	5.37	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	10.4	APHA 4500 PC
10	Dissolved Phosphate	mg/l	8.6	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.32	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$08X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	920	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.15	APHA, 24th Ed, 2023

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/51

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 08-11-2025

DATE OF RECEIPT : 08-11-2025

ANALYSIS STARTING DATE : 10-11-2025

ANALYSIS COMPLETION DATE : 14-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.35	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1310	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	7.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	830	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	20.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	4.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.0	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.09	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.27	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	0.52	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	90	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	750	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.04	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/52

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.21	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1510	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	40.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	950	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	110	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^0C	mg/l	39.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	2.85	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	7.17	APHA 4500 PC
10	Dissolved Phosphate	mg/l	9.5	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	2.3	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$15X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	990	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.20	APHA, 24th Ed, 2023

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/53

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 17-11-2025

DATE OF RECEIPT : 17-11-2025

ANALYSIS STARTING DATE : 18-11-2025

ANALYSIS COMPLETION DATE : 21-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.76	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1204	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	4.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	750	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	20.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	5.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	0.21	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.01	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.02	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.1	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	50	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	930	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.19	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/54 **Dated : 02-12-2025**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 24-11-2025

DATE OF RECEIPT : 24-11-2025

ANALYSIS STARTING DATE : 25-11-2025

ANALYSIS COMPLETION DATE : 28-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.42	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1864	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	15.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1180	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	140	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	51.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	3.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	4.2	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	13.0	APHA 4500 PC
10	Dissolved Phosphate	mg/l	9.5	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	3.07	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$11X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1080	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.29	APHA, 24th Ed, 2023

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072
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Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-11/55

Dated : 02-12-2025

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 24-11-2025

DATE OF RECEIPT : 24-11-2025

ANALYSIS STARTING DATE : 25-11-2025

ANALYSIS COMPLETION DATE : 28-11-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.17	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	952	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	6.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	596	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.04	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.18	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.09	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	0.78	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	90	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	870	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS.d	0.16	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/11 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 08-12-2025

DATE OF RECEIPT : 09-12-2025

ANALYSIS STARTING DATE : 09-12-2025

ANALYSIS COMPLETION DATE : 13-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.10	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	2097	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	6.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1274	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	30.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	8.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.07	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.04	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	1.03	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.58	NA	APHA 4500 N Org B & C, 24th
13	Fecal Coliform	MPN/ 100ml	29	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1098	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.33	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/25-12/12 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 11-12-2025

DATE OF RECEIPT : 12-12-2025

ANALYSIS STARTING DATE : 12-12-2025

ANALYSIS COMPLETION DATE : 15-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.51	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	2467	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	9.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1495	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	15.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	6.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.19	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.14	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	1.96	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.27	NA	APHA 4500 N Org B & C, 24th
13	Fecal Coliform	MPN/ 100ml	21	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1129	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.40	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-12/13 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 31-12-2025

DATE OF RECEIPT : 31-12-2025

ANALYSIS STARTING DATE : 01-01-2026

ANALYSIS COMPLETION DATE : 05-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.91	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1639	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	<1.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1012	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.04	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.07	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	0.97	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.41	NA	APHA 4500 N Org B & C, 24thEd
13	Fecal Coliform	MPN/ 100ml	60	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1159	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.35	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-12/50 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 08-12-2025

DATE OF RECEIPT : 09-12-2025

ANALYSIS STARTING DATE : 09-12-2025

ANALYSIS COMPLETION DATE : 13-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Inlet	Test Method
1	pH	-	6.98	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1572	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	18.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	971	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	110	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^0C	mg/l	42.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	3.86	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	8.13	APHA 4500 PC
10	Dissolved Phosphate	mg/l	6.98	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.08	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$06X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1019	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.21	APHA, 24th Ed, 2023

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Ref. No : SV/NTPC-SIM/25-12/51 **Dated : 06-01-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – In Township** (10.170/MONTHLY)
DATE OF COLLECTION	:	08-12-2025
DATE OF RECEIPT	:	09-12-2025
ANALYSIS STARTING DATE	:	09-12-2025
ANALYSIS COMPLETION DATE	:	13-12-2025
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.91	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1310	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	4.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	793	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.36	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.05	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.20	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	0.74	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	60	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	809	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS.d	0.08	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-12/52 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 19-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.08	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1853	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	83.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1129	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	140	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	52.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	3.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	3.12	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	8.58	APHA 4500 PC
10	Dissolved Phosphate	mg/l	10.3	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.97	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$11X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1004	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.27	APHA, 24th Ed, 2023

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Ref. No : SV/NTPC-SIM/25-12/53

Dated : 06-01-2026

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 15-12-2025

DATE OF RECEIPT : 15-12-2025

ANALYSIS STARTING DATE : 16-12-2025

ANALYSIS COMPLETION DATE : 19-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.95	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1437	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	2.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	885	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	30.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	8.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	0.27	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.05	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.03	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.29	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	35	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	869	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS.d	0.10	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/25-12/54 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 23-12-2025

DATE OF RECEIPT : 23-12-2025

ANALYSIS STARTING DATE : 24-12-2025

ANALYSIS COMPLETION DATE : 27-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.19	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1815	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	28.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1095	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	90.0	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	34.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	3.91	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	9.74	APHA 4500 PC
10	Dissolved Phosphate	mg/l	7.13	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	2.58	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$09X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	993	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.20	APHA, 24th Ed, 2023

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Ref. No : SV/NTPC-SIM/25-12/55 **Dated : 06-01-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 23-12-2025

DATE OF RECEIPT : 23-12-2025

ANALYSIS STARTING DATE : 24-12-2025

ANALYSIS COMPLETION DATE : 27-12-2025

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.87	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1159	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	<1.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	712	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	<10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	<3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.58	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.25	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.11	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	0.97	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	60	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	849	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.07	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-03/11 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 11-03-2026

DATE OF RECEIPT : 12-03-2026

ANALYSIS STARTING DATE : 12-03-2026

ANALYSIS COMPLETION DATE : 16-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.15	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1396	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	<1.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	841	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.04	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.06	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	1.96	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.81	NA	APHA 4500 N Org B & C, 24th
13	Fecal Coliform	MPN/ 100ml	14	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	794	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.03	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-03/12 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 20-03-2026

DATE OF RECEIPT : 20-03-2026

ANALYSIS STARTING DATE : 21-03-2026

ANALYSIS COMPLETION DATE : 24-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.97	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1529	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	5.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	915	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	20.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	8.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.09	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.12	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	2.15	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.25	NA	APHA 4500 N Org B & C, 24th
13	Fecal Coliform	MPN/ 100ml	17	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	897	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.08	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/13 **Dated : 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 28-03-2026

DATE OF RECEIPT : 28-03-2026

ANALYSIS STARTING DATE : 30-03-2026

ANALYSIS COMPLETION DATE : 02-04-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.09	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1681	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	3.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1025	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.05	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.10	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	0.81	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.24	NA	APHA 4500 N Org B & C, 24thEd
13	Fecal Coliform	MPN/ 100ml	21	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	927	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.07	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

CHECKED BY **AUTHORIZED SIGNATORY**

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/50 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – In Township** (10.170/MONTHLY)
DATE OF COLLECTION	:	09-03-2026
DATE OF RECEIPT	:	10-03-2026
ANALYSIS STARTING DATE	:	10-03-2026
ANALYSIS COMPLETION DATE	:	13-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.81	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1763	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	13.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1039	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	160	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	58.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	3.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	3.98	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	17.2	APHA 4500 PC
10	Dissolved Phosphate	mg/l	8.15	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	4.09	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$14X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	950	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.16	APHA, 24th Ed, 2023

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/51 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – In Township** (10.170/MONTHLY)
DATE OF COLLECTION	:	09-03-2026
DATE OF RECEIPT	:	10-03-2026
ANALYSIS STARTING DATE	:	10-03-2026
ANALYSIS COMPLETION DATE	:	13-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.51	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1486	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	9.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	871	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	30.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	8.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.09	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.22	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.37	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.74	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	40	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	715	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.06	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/52 **Dated: 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.18	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1693	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	23.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	994	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	125	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	46.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	2.96	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	10.3	APHA 4500 PC
10	Dissolved Phosphate	mg/l	12.7	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	3.86	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$11X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	897	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.09	APHA, 24th Ed, 2023

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/53 **Dated: 06-04-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 16-03-2026

DATE OF RECEIPT : 16-03-2026

ANALYSIS STARTING DATE : 17-03-2026

ANALYSIS COMPLETION DATE : 20-03-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.24	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1429	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	9.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	853	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	20.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	7.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	0.27	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.08	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.13	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	2.98	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	35	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	800	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS-d	0.05	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

SV Enviro Labs & Research P. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/54 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – In Township** (10.170/MONTHLY)
DATE OF COLLECTION	:	23-03-2026
DATE OF RECEIPT	:	24-03-2026
ANALYSIS STARTING DATE	:	24-03-2026
ANALYSIS COMPLETION DATE	:	27-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.95	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1974	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	34.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1174	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	190	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	68.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	4.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	4.96	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	15.3	APHA 4500 PC
10	Dissolved Phosphate	mg/l	9.74	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	4.15	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$14X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1012	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.21	APHA, 24th Ed, 2023

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formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-03/55 **Dated: 06-04-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – In Township** (10.170/MONTHLY)
DATE OF COLLECTION	:	23-03-2026
DATE OF RECEIPT	:	24-03-2026
ANALYSIS STARTING DATE	:	24-03-2026
ANALYSIS COMPLETION DATE	:	27-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.10	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1269	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	2.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	798	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	20.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	8.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.58	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.10	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.06	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.15	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	38	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	871	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS.d	0.06	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS

Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/11 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant (10:180/QUARTERLY)**

DATE OF COLLECTION : 07-01-2026

DATE OF RECEIPT : 08-10-2026

ANALYSIS STARTING DATE : 08-10-2026

ANALYSIS COMPLETION DATE : 12-10-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1.	Trivalent Chromium	mg/l	<0.01	NA	APHA, 3120-B, 24th Ed
2.	Hexavalent Chromium as Cr^{+6}	mg/l	<0.1	1.0	APHA 3500 Cr-B
3.	Sulphates as SO_4^{2-}	mg/l	98.0	NA	APHA, 4500-SO_4^{2-} E, 24th Ed
4.	Sulphide as S	mg/l	<0.1	5.0	APHA, 4500S^2D, 24th Ed
5.	Phenolic Compounds as C_6H_5OH	mg/l	<0.005	5.0	APHA, 5530-C, 24th Ed
6.	Cyanide as Cn	mg/l	<0.02	0.2	APHA, 4500-CN⁻ E, 24th Ed
7.	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
8.	Mercury as Hg	mg/l	<0.001	0.01	APHA, 3120-B, 24th Ed
9.	Arsenic as As	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
10.	Lead as Pb	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
11.	Cadmium as Cd	mg/l	<0.001	2.0	APHA, 3120-B, 24th Ed
12.	Selenium as S	mg/l	<0.005	0.05	APHA, 3120-B, 24th Ed
13.	Nickel as Ni	mg/l	<0.01	50	APHA, 3120-B, 24th Ed
14.	Manganese as Mn	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
15.	Flouride as F	mg/l	0.16	15	APHA, 4500-FD,24th Ed
16.	Copper as Cu	mg/l	<0.01	30	APHA, 3120-B, 24th Ed
17.	Zinc as Zn	mg/l	0.05	15	APHA, 3120-B, 24th Ed
18.	Chlorides as Cl	mg/l	319	NA	APHA, 4500-Cl B, 24th Ed
19.	Bioassay	%	95	90% Survival of fish after 96 hours in 100% effluent	IS 6582 Part – 1

Note : NA Denotes Not Applicable

Enviro Labs & Research Pvt. Ltd. SV VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS

Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/11 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant (10:180/QUARTERLY)**

DATE OF COLLECTION : 07-01-2026

DATE OF RECEIPT : 08-10-2026

ANALYSIS STARTING DATE : 08-10-2026

ANALYSIS COMPLETION DATE : 12-10-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1.	Trivalent Chromium	mg/l	<0.01	NA	APHA, 3120-B, 24th Ed
2.	Hexavalent Chromium as Cr^{+6}	mg/l	<0.1	1.0	APHA 3500 Cr-B
3.	Sulphates as SO_4^{2-}	mg/l	98.0	NA	APHA, 4500-SO_4^{2-} E, 24th Ed
4.	Sulphide as S	mg/l	<0.1	5.0	APHA, 4500S^2D, 24th Ed
5.	Phenolic Compounds as C_6H_5OH	mg/l	<0.005	5.0	APHA, 5530-C, 24th Ed
6.	Cyanide as Cn	mg/l	<0.02	0.2	APHA, 4500-CN⁻ E, 24th Ed
7.	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
8.	Mercury as Hg	mg/l	<0.001	0.01	APHA, 3120-B, 24th Ed
9.	Arsenic as As	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
10.	Lead as Pb	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
11.	Cadmium as Cd	mg/l	<0.001	2.0	APHA, 3120-B, 24th Ed
12.	Selenium as S	mg/l	<0.005	0.05	APHA, 3120-B, 24th Ed
13.	Nickel as Ni	mg/l	<0.01	50	APHA, 3120-B, 24th Ed
14.	Manganese as Mn	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
15.	Flouride as F	mg/l	0.16	15	APHA, 4500-FD,24th Ed
16.	Copper as Cu	mg/l	<0.01	30	APHA, 3120-B, 24th Ed
17.	Zinc as Zn	mg/l	0.05	15	APHA, 3120-B, 24th Ed
18.	Chlorides as Cl	mg/l	319	NA	APHA, 4500-Cl B, 24th Ed
19.	Bioassay	%	95	90% Survival of fish after 96 hours in 100% effluent	IS 6582 Part – 1

Note : NA Denotes Not Applicable

Enviro Labs & Research Pvt. Ltd. SV VSP-12

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AUTHORIZED SIGNATORY

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/50 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – In Township** (10.170/MONTHLY)
DATE OF COLLECTION	:	09-01-2026
DATE OF RECEIPT	:	10-01-2026
ANALYSIS STARTING DATE	:	10-01-2026
ANALYSIS COMPLETION DATE	:	13-01-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.09	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1186	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	29.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	705	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	160	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	58.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	4.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	2.97	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	11.9	APHA 4500 PC
10	Dissolved Phosphate	mg/l	8.12	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	3.27	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	09X10^3	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	910	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.15	APHA, 24th Ed, 2023

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Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/51 **Dated: 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 09-01-2026

DATE OF RECEIPT : 10-01-2026

ANALYSIS STARTING DATE : 10-01-2026

ANALYSIS COMPLETION DATE : 13-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.31	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1012	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	11.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	597	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	25.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	8.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.02	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.16	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.35	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.96	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	90	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	774	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.05	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/52 **Dated: 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	6.98	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1096	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	98.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	651	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	190	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	72.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	4.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	2.53	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	6.81	APHA 4500 PC
10	Dissolved Phosphate	mg/l	13.2	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	3.71	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$14X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	980	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.17	APHA, 24th Ed, 2023

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/53 **Dated: 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 16-01-2026

DATE OF RECEIPT : 16-01-2026

ANALYSIS STARTING DATE : 17-01-2026

ANALYSIS COMPLETION DATE : 20-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.90	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	894	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	<1.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	527	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	0.18	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.03	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.05	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.98	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	70	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	815	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg ML VSS.d	0.07	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-12

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/54 **Dated: 06-02-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – In Township** (10.170/MONTHLY)
DATE OF COLLECTION	:	24-01-2026
DATE OF RECEIPT	:	24-01-2026
ANALYSIS STARTING DATE	:	27-01-2026
ANALYSIS COMPLETION DATE	:	30-01-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.63	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1209	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	43.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	719	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	140	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	48.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	4.15	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	11.9	APHA 4500 PC
10	Dissolved Phosphate	mg/l	9.58	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	4.29	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$11X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1094	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.31	APHA, 24th Ed, 2023

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/55 **Dated: 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 24-01-2026

DATE OF RECEIPT : 24-01-2026

ANALYSIS STARTING DATE : 27-01-2026

ANALYSIS COMPLETION DATE : 30-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.99	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	974	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	<1.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	569	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	<10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27^0C	mg/l	<3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.24	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.15	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.09	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.14	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	40	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	927	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS.d	0.14	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

SV Enviro Labs & Research Pvt. Ltd. VSP-1.2

CHECKED BY **AUTHORIZED SIGNATORY**

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072
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Contacts 0891-2755528, +91 7207664444
PAN: ABQCS0643F
CIN: U74909AP2025PTC119098

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-01/50 **Dated : 06-02-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township (10:180/QUARTERLY)**

DATE OF COLLECTION : 09-01-2026

DATE OF RECEIPT : 10-01-2026

ANALYSIS STARTING DATE : 10-01-2026

ANALYSIS COMPLETION DATE : 13-01-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	Trivalent Chromium	mg/l	<0.01	NA	APHA, 3120-B, 24th Ed
2	Hexavalent Chromium as Cr^{+6}	mg/l	<0.1	1.0	APHA 3500 Cr-B
3	Sulphates as SO_4^{2-}	mg/l	24.7	NA	APHA, 4500-SO_4^{2-} E, 24th
4	Sulphide as S	mg/l	0.02	5.0	APHA, 4500S^2D, 24th Ed
5	Phenolic Compounds as C_6H_5OH	mg/l	<0.005	5.0	APHA, 5530-C, 24th Ed
6	Cyanide as Cn	mg/l	<0.02	0.2	APHA, 4500-CN^- E, 24th
7	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
8	Mercury as Hg	mg/l	<0.001	0.01	APHA, 3120-B, 24th Ed
9	Arsenic as As	mg/l	<0.01	0.2	APHA, 3120-B, 24th Ed
10	Lead as Pb	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
11	Cadmium as Cd	mg/l	<0.001	2.0	APHA, 3120-B, 24th Ed
12	Selenium as S	mg/l	<0.005	0.05	APHA, 3120-B, 24th Ed
13	Nickel as Ni	mg/l	<0.01	50	APHA, 3120-B, 24th Ed
14	Manganese as Mn	mg/l	<0.01	2.0	APHA, 3120-B, 24th Ed
15	Flouride as F	mg/l	0.10	15	APHA, 4500-FD,24th Ed
16	Copper as Cu	mg/l	<0.01	30	APHA, 3120-B, 24th Ed
17	Zinc as Zn	mg/l	<0.01	15	APHA, 3120-B, 24th Ed
18	Bioassay	%	95	90% Survival of fish after 96 hours in 100% effluent	IS 6582 Part – I

Note : NA Denotes Not Applicable

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/50 **Dated: 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 09-02-2026

DATE OF RECEIPT : 09-02-2026

ANALYSIS STARTING DATE : 10-02-2026

ANALYSIS COMPLETION DATE : 14-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.31	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1438	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	9.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	853	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	125	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^0C	mg/l	43.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	2.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	3.15	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	14.7	APHA 4500 PC
10	Dissolved Phosphate	mg/l	6.92	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	3.71	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$11X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	896	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.10	APHA, 24th Ed, 2023

CHECKED BY

SV Enviro Labs & Research Pvt. Ltd. VSP-12

AUTHORIZED SIGNATORY

Recognized by GOI - MoEFCC, Accredited by NABL & NABET

SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/51 **Dated: 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 09-02-2026

DATE OF RECEIPT : 09-02-2026

ANALYSIS STARTING DATE : 10-02-2026

ANALYSIS COMPLETION DATE : 14-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.94	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1152	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	6.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	673	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	0.86	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.10	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.24	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	1.38	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	60	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	694	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.03	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/52 **Dated: 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 20-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.39	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1563	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	47.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	912	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	140	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	52.0	IS·3025 (Part-44)
7	Oil & Grease	mg/l	3.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	3.27	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	8.54	APHA 4500 PC
10	Dissolved Phosphate	mg/l	9.73	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	3.02	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	$17X10^3$	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	926	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.12	APHA, 24th Ed, 2023

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Ref. No : SV/NTPC-SIM/26-02/53 **Dated: 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 16-02-2026

DATE OF RECEIPT : 17-02-2026

ANALYSIS STARTING DATE : 17-02-2026

ANALYSIS COMPLETION DATE : 20-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.09	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1026	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	2.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	598	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	15.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	4.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	0.23	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.05	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.09	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	2.71	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	63	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	774	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS-d	0.04	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/54 **Dated: 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – In Township** (10.170/MONTHLY)

DATE OF COLLECTION : 23-02-2026

DATE OF RECEIPT : 23-02-2026

ANALYSIS STARTING DATE : 24-02-2026

ANALYSIS COMPLETION DATE : 28-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Inlet	Test Method
1	pH	-	7.52	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1369	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	22.0	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	804	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	115	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	42.0	IS:3025 (Part-44)
7	Oil & Grease	mg/l	3.0	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	4.29	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	13.7	APHA 4500 PC
10	Dissolved Phosphate	mg/l	7.92	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	3.11	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	09X10³	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	986	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	Kg BOD/kg MLVSS·d	0.17	APHA, 24th Ed, 2023

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Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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CIN: U74909AP2025PTC119098

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED
formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions

Ref. No : SV/NTPC-SIM/26-02/55 **Dated: 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – In Township** (10.170/MONTHLY)
DATE OF COLLECTION	:	23-02-2026
DATE OF RECEIPT	:	23-02-2026
ANALYSIS STARTING DATE	:	24-02-2026
ANALYSIS COMPLETION DATE	:	28-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD, Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.03	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	832	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	<1.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	497	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Ammonical Nitrogen as NH_3-N	mg/l	1.09	NA	APHA 4500 NH3-B & C
9	Total Phosphate	mg/l	0.08	NA	APHA 4500 PC
10	Dissolved Phosphate	mg/l	0.04	<2.0	APHA 4500 PC
11	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
12	Kjeldhal Nitrogen	mg/l	0.86	NA	APHA 4500 N Org B & C, 24th Ed.
13	Fecal Coliform	MPN/100ml	29	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	905	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.08	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-02/11 **Dated : 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – Main Plant** (10.170/MONTHLY)
DATE OF COLLECTION	:	09-02-2026
DATE OF RECEIPT	:	09-02-2026
ANALYSIS STARTING DATE	:	10-02-2026
ANALYSIS COMPLETION DATE	:	13-02-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.No.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.25	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1564	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	<1.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	927	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	15.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand –BOD 3 days Incubation at 27°C	mg/l	4.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.02	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.04	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	1.12	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.59	NA	APHA 4500 N Org B & C, 24th
13	Fecal Coliform	MPN/ 100ml	11	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	810	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.07	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-02/12 **Dated : 07-03-2026**

ISSUED TO : **M/s. NTPC LIMITED,**
SIMHADRI SUPER THERMAL PROJECT,
P.O. SIMHADRI VISAKHAPATNAM,
VISAKHAPATNAM – 531020.

Kind Attn : AGM – CHEMISTRY

PO. No : 4000351107-057-1019 Date: 16.01.2025

SAMPLE PARTICULARS : **STP – Main Plant** (10.170/MONTHLY)

DATE OF COLLECTION : 21-02-2026

DATE OF RECEIPT : 21-02-2026

ANALYSIS STARTING DATE : 23-02-2026

ANALYSIS COMPLETION DATE : 26-02-2026

SAMPLE COLLECTED BY : SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	7.10	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1697	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	2.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	1016	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27°C	mg/l	3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.11	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.15	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	1.97	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.20	NA	APHA 4500 N Org B & C, 24th
13	Fecal Coliform	MPN/ 100ml	13	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	941	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS-d	0.15	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Ref. No : SV/NTPC-SIM/26-02/13 **Dated : 07-03-2026**

ISSUED TO	:	**M/s. NTPC LIMITED,** SIMHADRI SUPER THERMAL PROJECT, P.O. SIMHADRI VISAKHAPATNAM, VISAKHAPATNAM – 531020. Kind Attn : AGM – CHEMISTRY
PO. No	:	4000351107-057-1019 Date: 16.01.2025
SAMPLE PARTICULARS	:	**STP – Main Plant** (10.170/MONTHLY)
DATE OF COLLECTION	:	28-02-2026
DATE OF RECEIPT	:	28-02-2026
ANALYSIS STARTING DATE	:	02-03-2026
ANALYSIS COMPLETION DATE	:	05-03-2026
SAMPLE COLLECTED BY	:	SV ENVIRO LABS & RESEARCH PVT LTD,Visakhapatnam

TEST RESULTS

S.NO.	Parameters	Units	STP Outlet	PCB Standards	Test Method
1	pH	-	6.94	5.5 – 9.0	APHA, 4500-H+B, 24th Ed.
2	Electrical Conductivity	µs/cm	1706	NA	APHA – 2510 B, 24th Ed.
3	Total Suspended Solids	mg/l	1.0	<20	APHA, 2540-D, 24th Ed.
4	Total Dissolved Solids	mg/l	997	NA	APHA, 2540-C, 24th Ed.
5	Chemical Oxygen Demand - COD	mg/l	<10.0	<50	APHA, 5220 B, 24th Ed.
6	Bio-Chemical Oxygen Demand -BOD 3 days Incubation at 27^{0}C	mg/l	<3.0	<10	IS:3025 (Part-44)
7	Oil & Grease	mg/l	<1.0	NA	APHA, 5520-D,5-38, 24th Ed.
8	Total Phosphate	mg/l	0.01	NA	APHA 4500 PC
9	Dissolved Phosphate	mg/l	0.03	<2.0	APHA 4500 PC
10	Free Residual Chlorine	mg/l	<0.005	NA	IS 3025 P:26:1986, (RA:2003)
11	Ammonical Nitrogen as NH_3-N	mg/l	0.39	NA	APHA 4500 NH3-B & C
12	Kjeldhal Nitrogen	mg/l	0.16	NA	APHA 4500 N Org B & C, 24thEd
13	Fecal Coliform	MPN/ 100ml	18	<230	IS 1622
14	Mixed Liquor Suspended Solids (MLSS)	mg/l	1019	NA	IS 3025 P:15
15	Food-to-Microorganism (F/M) Ratio	kg BOD/kg MLVSS·d	0.10	NA	APHA, 24th Ed, 2023

Note : NA Denotes Not Applicable

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Annexure-III

Photographs of Display Boards





Annexure-III

Photographs of Display Boards





Annexure-III

Photographs of Display Boards

