



टीएचडीसी इंडिया लिमिटेड
(श्रेणी-क गिनी रत्न उपक्रम)
THDC INDIA LIMITED
(Schedule - A Mini Ratna PSU)



सं० टीएचडीसी/ऋ०/सा०एवंपर्या०/फ०-400/39(ए)

दिनांक: 26.05.2025

सेवा में,

Deputy Director General of Forests (C),
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,
क्षेत्रीय कार्यालय (मध्य क्षेत्र),
केंद्रीय भवन, पंचम तल,
सेक्टर-H, अलीगंज, लखनऊ - 226024

विषय: 17th Six monthly progress report (Oct 2024 to March 2025) on Environmental Aspects of of 2 × 660 MW Khurja Super Thermal Power Project at Villages Dushhara Kherli, Jahanpur, Naiphah and Rukanpur in Khurja Taluk, Bulandshahar Distt. Uttar Pradesh by THDC India Limited - reg.

Sir,

In compliance to Point (xiv) of Part B: General Conditions of Environment Clearance letter No. J-13012/100/2011-IA.II(T) dtd. 30.03.2017 issued by MoEFCC., please find enclosed herewith the six monthly progress report on environmental aspects of 2 × 660 MW Khurja Super Thermal Power Project for your kind consideration.

Thanking You,

(Handwritten signature)
26/5/2025

(हर्ष कुमार)

अपर महाप्रबंधक (सामा. एवं पर्यावरण)

संलग्नक: उपरोक्तानुसार

प्रतिलिपि: सादर सूचनाथ

- 1.) निदेशक आई.ए.आई, इंदिरा पर्यावरण भवन, वायु विंग, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, जोर बाग रोड, नई दिल्ली - 110 003
- 2.) सदस्य सचिव, केन्द्रीय प्रदूषण नियंत्रण बोर्ड, परिवेश भवन, सी.बी.डी. कम आफिस कोम्प्लेक्स, पूर्वी अर्जुन नगर, दिल्ली - 110032
- 3.) सदस्य सचिव, उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड, बिल्डिंग स०टीसी-12V, विभूति खंड, गोमती नगर, लखनऊ - 226010
- 4.) क्षेत्रीय अधिकारी, क्षेत्रीय कार्यालय, उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड, F-5, जमुना पुरम कालोनी, बुलंदशहर, उत्तर प्रदेश 203001

NO.	COMPLIANCE CONDITION	CURRENT STATUS
A-SPECIFIC CONDITIONS		
1	As per the Revised Tariff Policy notified by Ministry of Power vide dated 28-01-2016, project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Municipality/local bodies/similar organization located within 50 Km radius of the proposed power project to minimize the water drawl from the River Ganga.	An MoU has been signed by KSTPP Project with UP Jal Nigam on 18.04.2024 for Re-use of treated water from STP Bulandshahr for KSTPP.
2	Compliance of EC Conditions, E(P) Act, 1986, MoEF&CC Notifications, Rules, Regulations and Guidelines issued time to time shall be done by an Environment Compliance Officer to be nominated by Head of the Company who shall be responsible for compliance and implementations of EC conditions.	The Head of the Department (HoD) of Corporate S&E Dept., Rishikesh has been appointed as Environment Compliance Officer by the Chairman and Managing Director (CMD) of the company.
3	Greenbelt development shall be developed in 400 acres with native and indigenous species to maintain 33% of the land green. Greenbelt plan shall be formulated in consultation with local Forest Department and submitted to the Ministry and its Regional Office for monitoring. The budget of Rs. 5 Crores for greenbelt shall be accordingly revised in consultation with forest Department. No herbs and shrubs shall be planted. Only tall seedlings shall be planted. Greenbelt development shall start during construction period.	As per EC condition, Green Belt on 70 ha land has been completed. Further, a MoU for plantation on the remaining 100 ha of land for the green belt development has been signed with the Forest Department, Bulandshahr (UP) on date 15.01.2025. Advance Soil work and plantation work on 50 ha is undergoing by Forest Department.

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S.NO.	COMPLIANCE CONDITION	CURRENT STATUS
4	Hydrogen plant shall be shifted away from Uncha Gaon. Minimum of 500 m distance shall be maintained from the village. The layout indication relocation of Hydrogen plant shall be submitted to the Ministry and its Regional Office.	Provision of Hydrogen Generation Plant has been deleted from the General Layout Plan. Required hydrogen shall be procured from the market.
5	Need based assessment study shall be conducted for implementing CSR activities. Company shall provide Guest teachers to the surrounding Govt. schools.	Need based Assessment study of project affected villages has been conducted through Department of Social Work, University of Delhi. Brief details of various CSR/CD activities being undertaken is given at point no. 28.
6	Alternate technologies for Fly ash utilization such as road making using geo-polymers shall be explored in consultation with director AMPRI, Bhopal/DG CSIR. Use of ash dyke shall be minimized.	<p>THDCIL's officials visited to AMPRI, Bhopal on 22.05.2024 to explore the alternative technology of the 100% utilization of fly ash. They have advised for use of fly Ash in bricks manufacturing, concrete pavement etc.</p> <p>However, THDCIL is also exploring the utilization of fly ash in the market.</p> <p>At present generated fly ash is being used by cement industry as per Fly Ash Notification.</p> <p>Fly ash generation and utilization details is submitted on COALASH portal of CPCB.</p>
7	Separate environmental clearance may be obtained for township construction under EIA Notification, 2006 and its amendments, as applicable.	As per EIA Notification 2006, prior Environmental Clearance is applicable for Township and Area Development projects having area more than 50 hectare. Hence, not applicable in case of Khurja STPP as the township area is limited to 30 acre (12.15 ha) only.
8	MoEF&CC Notification S.O. 3305(E) dated 7.12.2015 shall be implemented with respect to specific water consumption, zero liquid discharge and revised emission standards. The PM, SO ₂ , NO _x and Hg emissions shall not exceed 30 mg/Nm ³ , 100 mg/Nm ³ , 100 mg/Nm ³ and 0.03	The different components of thermal plant installed at project are designed to ensure the compliance of MoEF&CC Notification S.O.3305 (E) dated 7.12.2015 during the operation phase of the plant. Specific water consumption is below 2.5 M ³ /MWh accordingly and ZLD is ensured.

S.NO.	COMPLIANCE CONDITION	CURRENT STATUS
9	MoEF&CC Notification GSR 02 (E) dated 2.1.2014 regarding use of raw or blended or beneficiated or washed coal with ash content not exceeding 34% shall be complied with as applicable.	Complied with. Coal ash content is below 34%. Report is attached as Annexure-A.
10	MoEF&CC Notifications on fly-ash utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.03.2003, S.O. 2804(E) dated 03.11.2009, S.O. 254(E) dated 25.01.2016 and subsequent amendments shall be complied with.	Being complied with as per status provided above at Point No 06.
11	Necessary permission from Water Resource Department shall be obtained for diversion of diverting the Aligarh natural drain from the project site.	No objection has been obtained from Drainage Circle, Aligarh vide letter no.2783/DCA/THDC dt 05.05.2018. After the NOC from the Water Resource Department, the diversion of the Aligarh natural drain from the project site is complete.
12	Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	Vision document has already been submitted on dated 28.09.2017.
13	Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring report.	Necessary provision for harnessing solar power have been made. Currently, construction works of township/guest house/offices, etc. are under progress. Roof top solar modules shall be installed after completion/finishing of construction works. Also, floating solar modules have been installed in the reservoir with a peak capacity of 5.2 MW and installation of additional floating solar of capacity 10.71 MW is under progress.

S.NO.	COMPLIANCE CONDITION	CURRENT STATUS
14	A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute and results thereof analyzed every two year and reported along with monitoring reports. Thereafter mechanism for an in built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	A detailed study on chemical composition of coal used particularly heavy metal and radio activity contents will be carried out through a reputed institute. A proposal for radioactivity study of coal and ash has been sought from the Nuclear Power Corporation of India Limited, Narora, Bulandshahr. The testing is to be carried out accordingly. Results thereof will be analyzed every two years and reported along with monitoring reports.
15	Online continuous monitoring system for stack emission, ambient air and effluent shall be installed.	An Online Continuous Stack Emission Monitoring System (CSEMS) for parameters like particulate matter (PM), NOX, SO2, Ambient Air, and Effluent are under installation at locations identified by UPPCB and the same will be connected through CPCB and UPPCB portal.
16	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 30 mg/Nm3 or as would be notified by the Ministry, whichever is stringent. Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided along with an environment friendly sludge disposal system.	To keep PM below then 30 mg/Nm3 high efficiency Electrostatic Precipitator is installed. Pneumatic ash handling system with bag filters provided for ash handling. The crusher houses for coal are provided with Dust Extraction System & Bag Filter. Dust Suppression System (DSS) and Water Sprinkling System are provided in coal stock yard.

NO.	COMPLIANCE CONDITION	CURRENT STATUS
17	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Dust extraction system with bag filter in coal crusher house has been provided. Pneumatic ash handling system with bag filters provided. For ash handling. Water sprinkling system provided in coal yard.
18	Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report.	The monitoring of water quality has been carried out through recognized lab and the reports are attached as Annexure-Report.
19	A well designed rain water harvesting system shall be put in place within six months, which shall comprise of rain water collection from the built up and open area in the plant premises and detailed record kept of the quantity of water harvested every year and its use.	Rainwater harvesting study has been carried out at the project through M/s RAJMI Geo-exploration & Engineering Pvt. Ltd, Indore. A well-designed rainwater harvesting system will be established as per recommendations of study report and approval of the concerned authority. Approval and guidance have been sought from Central Ground Water Board, regarding the implementation of Roof Water Harvesting in KSTPP after submitting the project report "Hydrological investigation and proposal for rain water harvesting plan & design". The suggestions/recommendations from CGWB have been received and forwarded to the implementing agency for incorporation and further necessary action.
20	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/operation of the power plant except the Aligarh drain passing through ash pond proposed for diversion without	No water bodies including natural drainage system in the area is being disturbed due to activities associated with the setting up of the power plant except the Aligarh drain. After the NOC from Water Resource Department, the diversion of Aligarh natural drain from the project site is completed.

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	affecting the natural drainage.	
21	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Being complied with.
22	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) shall be monitored in the bottom ash. No ash shall be disposed-off in low lying area.	Being Complied with. The monitoring of heavy metals has been carried out through recognized lab and the reports are awaited and same shall be shared upon receipt.
23	No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.	Shall be complied with.
24	Fugitive emission of fly ash (dry or wet) shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided in consultation with the local panchayat.	Shall be complied with

COMPLIANCE CONDITION	CURRENT STATUS
<p>25 Green Belt consisting of three tiers of plantations of native species all around plant and at least 50 m width shall be raised. Wherever 50 m width is not feasible a 20 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 80%.</p>	Being complied
<p>26 Green belt shall also be developed around the ash pond over and above the Green Belt around the plant boundary.</p>	Being complied
<p>27 The project proponent shall formulate a well-laid Corporate Environment policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.</p>	<p>Copy of the Environment policy duly approved by the THDCIL Board can be accessed from the following weblink https://thdc.co.in/en/content/environment-policy</p>

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S.NO.	COMPLIANCE CONDITION	CURRENT STATUS
28	<p>CSR schemes identified based on need based assessment shall be implemented in consultation with the village Panchayat and the District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programmes.</p>	<p>Budget Provision of Rs. 33.20 Cr. has been made in the EMP for local area community development activities and action has been initiated by THDCIL for the same.</p> <p>Out of the total provision of ₹ 33.2 crore expenditure of value 29.34 Cr has been incurred.</p> <p>Need Assessment study of project-affected villages has been conducted through Department of Social Work, University of Delhi. The CSR/CD scheme is implemented as per the need assessment and with consultation of the local representative and district administration. CSR activities are being undertaken in following areas-</p> <ol style="list-style-type: none"> 1. Community Health 2. Skill Development 3. Education 4. Infrastructure 5. Women empowerment
29	<p>For proper and periodic monitoring of CSR activities, a CSR committee or a social Audit committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.</p>	<p>For continuous monitoring by an independent external agency, an MoU has been signed on 16.02.2023 between M/S WAPCOS Limited and THDCIL.</p>

GENERAL CONDITIONS

1	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	Being complied with.
2	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.	STP in project area has been provided and the treated sewage being used for raising greenbelt/plantation.
S.NO.	COMPLIANCE CONDITION	CURRENT STATUS
3	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Adequate safety measures have been provided and DMP has been prepared. The requisite documents have been shared along with last report.
4	Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	
5	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Dispensaries along with First Aid and sanitation arrangements have been provided by the THDCIL and Contractors.

6	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.	The proper measures are being ensured and necessary arrangements/actions are in place..
S.NO.	COMPLIANCE CONDITION	CURRENT STATUS
7	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed to prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Continuous Ambient Air Quality System (CAAQMS) have been installed at locations identified by UPPCB. The online data sharing on portal for real time monitoring is under process. The monitoring of AQI parameters has been carried out through recognized lab and the reports attached.
8	Utilization of 100% fly ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	The utilization details have been uploaded on COALASH CPCB portal. The fly Ash implementation Report 2024-25 is hereby attached as Annexure-B.

9	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The contractors have provided labour colony with necessary infrastructure and amenities.
10	The project proponent shall advertise in the least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days, from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control board/Committee and may also be seen at the Website of MoEF&CC at http://envfor.nic.in	Complied with. The Advertisement was published in national and local newspapers on Apr' 2017.
11	A copy of the clearance letter shall be sent by the proponent to concerned panchayat, ZilaParisad/Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company be the proponent.	Copy of Environment Clearance letter was sent to all concerned. Same is also available on company's website.

12	<p>The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5 & PM10), SO2, Nox (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.</p>	Being complied with.
13	<p>The environment statement for each financial year ending 31st March in Form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.</p>	Form-V for 2023-24 has been submitted to SPCB& RO, MoEF&CC, Lucknow vide letter dt. 27.09.2024.

S.NO.	COMPLIANCE CONDITION	CURRENT STATUS
14	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to MoEF&CC, its Regional office, Central Pollution Control Board and State pollution control Board. The project proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, MoEF&CC.	The 16th six monthly compliance report (April 2024 to September 2024) has been submitted to all the concerned offices and uploaded on Parivesh Portal vide letter dated 30.10.2024.
15	The progress for the project shall be submitted to CEA on six monthly basis.	The progress report of the project is being submitted to CEA regularly.
16	Regional Office of the MoEF&CC will monitor the implementation of the stipulated conditions. A complete set of documents including environmental impact Assessment Report and Environment Management plan along with the additional information submitted from time to time shall be forwarded to the Regional office for their use during monitoring, Project proponent will upload the compliance status in their website and update same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	EIA and EMP reports are already available on the THDCIL website. The compliance status is being uploaded on the website and shared with concern authority.

S.NO.	COMPLIANCE CONDITION	CURRENT STATUS
17	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should be reported to the Ministry.	A budget provision of Rs. 1783.5 Cr was made for Environmental Protection measures. Financial year-wise Expenditure Details Financial Year Amount (in Cr.) 22-23 493.8 23-24 284.05 24-25 481.76 Total 1259.61 Cr
18	The project authorities shall inform the regional office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of the plant.	The unit#01 is commissioned on 26.01.2025
19	Full cooperation shall be extended to the Scientists/Officers from the Ministry /Regional Office of the Ministry/Regional office of the Ministry/CPCB/SPCB who would be monitoring the compliance of environmental status.	Shall be complied with.
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1	An as built or as completed report on EMP to be submitted stating the scope/extent of work envisaged in the EIA along with estimated cost vis-à-vis the actual completed works and cost incurred. A certificate/completion certificate accordingly, shall have to be submitted before the commissioning of the TPP.	EMP certificate during Unit01 operation was submitted on 19.02.2025. The completion certificate shall be submitted after fully operation of 2*660 MW KSTPP.



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Test Report

Page No. 1/1

Sample Number : VEL/SF/01
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dasheria Kherli Khuza BSR U.P.

Report No. : VEL/SF/2504261001
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 06/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 500 Gm
Sampling Type : -
Packing Status : Temp. Sealed
ULR No. : TC629925200004764F

Name of Sample : Coal
Sample Group : Solid Fuels
Location : CHP Store Area
Sample Collected By : VEL Representative (Mr. Ravi)
Environmental Condition : 25±2°C
Parameter Required : As per work order
Sampling and Analysis Protocol : Indian Standards

S.No.	Test Parameters	Test Method	Results	Unit
Discipline : Chemical				
1	Ash	IS:1350(P-1)RA:2007	28.62	%
2	Net Calorific Value	IS:1350-(Part-2) : 2022	5374	Cal/gm
3	Moisture	IS:1350-(Part-1) :1984	6.70	%
4	Fixed Carbon	IS:1350(Part-1)RA:2007	26.33	%
5	Volatile Matter	IS:1350(Part-1)RA:2007	38.35	%

BLQ-Below Limit of Quantification,LOQ-Limit of Quantification.

End of Report

Reviewed By



Authorized Signatory



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Test Report

Page No. 1/2

Sample Number : VEL/SF/01
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dasheria Kherli Khuza BSR U.P.

Report No. : VEL/SF/2504261001/N
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 06/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 500 Gm
Sampling Type : -
Packing Status : Temp. Sealed

Name of Sample : Coal
Sample Group : Solid Fuels
Location : CHP Store Area
Sample Collected By : VEL Representative (Mr. Ravi)
Environmental Condition : 25±2°C
Parameter Required : As per work order
Sampling and Analysis Protocol : Indian Standards

S.No.	Test Parameters	Test Method	Results	Unit
Discipline : Chemical				
1	Nickel (as Ni)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	14.85	mg/kg
2	vanadium	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	27.97	mg/kg
3	Antimony	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	1.50	mg/kg
4	Cyanide	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	BLQ(LOQ-0.05)	mg/kg
5	Total Chromium (as Cr)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	18.03	mg/kg
6	Zinc (as Zn)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	58.45	mg/kg
7	Lead (as Pb)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	9.03	mg/kg
8	Arsenic (as As)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	0.90	mg/kg
9	Cadmium (as Cd)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	BLQ(LOQ-0.1)	mg/kg

Reviewed By



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Test Report

Page No. 2/2

Sample Number : VEL/SF/01

Report No. : VEL/SF/2504261001/N

S.No.	Test Parameters	Test Method	Results	Unit
10	Mercury (as Hg)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	BLQ(LOQ-0.1)	mg/kg
11	Copper (as Cu)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	13.57	mg/kg

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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Test Report

Page No. 1/1

Sample Number : VEL/SF/02
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dashera Kherli Khuza BSR U.P.

Report No. : VEL/SF/2504261002
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 06/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 500 Gm
Sampling Type : -
Packing Status : Temp. Sealed
ULR No. : TC629925200004765F

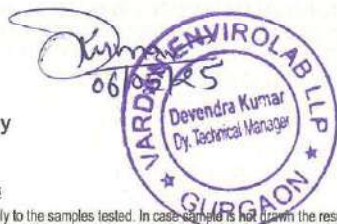
Name of Sample : Coal
Sample Group : Solid Fuels
Location : CHP Store Area-2
Sample Collected By : VEL Representative (Mr. Ravi)
Environmental Condition : 25±2°C
Parameter Required : As per work order
Sampling and Analysis Protocol : Indian Standards

S.No.	Test Parameters	Test Method	Results	Unit
Discipline : Chemical				
1	Ash	IS:1350(P-1)RA:2007	26.58	%
2	Net Calorific Value	IS:1350-(Part-2) : 2022	5206	Cal/gm
3	Moisture	IS:1350-(Part-1) :1984	7.49	%
4	Fixed Carbon	IS:1350(Part-1)RA:2007	26.80	%
5	Volatile Matter	IS:1350(Part-1)RA:2007	39.31	%

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Test Report

Page No. 1/2

Sample Number : VEL/SF/02
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dasheria Kherli Khuza BSR U.P.

Report No. : VEL/SF/2504261002/N
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 06/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 500 Gm
Sampling Type : -
Packing Status : Temp. Sealed

Name of Sample : Coal
Sample Group : Solid Fuels
Location : CHP Store Area-2
Sample Collected By : VEL Representative (Mr. Ravi)
Environmental Condition : 25±2°C
Parameter Required : As per work order
Sampling and Analysis Protocol : Indian Standards

S.No.	Test Parameters	Test Method	Results	Unit
Discipline : Chemical				
1	Nickel (as Ni)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	14.15	mg/kg
2	vanadium	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	25.66	mg/kg
3	Antimony	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	1.48	mg/kg
4	Cyanide	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	BLQ(LOQ-0.05)	mg/kg
5	Total Chromium (as Cr)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	16.63	mg/kg
6	Zinc (as Zn)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	74.63	mg/kg
7	Lead (as Pb)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	9.94	mg/kg
8	Arsenic (as As)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	1.18	mg/kg
9	Cadmium (as Cd)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	BLQ(LOQ-0.1)	mg/kg

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Test Report

Page No. 2/2

Sample Number : VEL/SF/02

Report No. : VEL/SF/2504261002/N

S.No.	Test Parameters	Test Method	Results	Unit
10	Mercury (as Hg)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	BLQ(LOQ-0.1)	mg/kg
11	Copper (as Cu)	VEL/HW/STP/03, Issue No-1 , Issue Date 01/10/2023	13.85	mg/kg

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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Test Report

Page No. 1/2

Sample Number : VEL/PE/01
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dashera Kherli Khuza BSR U.P.

Report No. : VEL/PE/2504261001
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 01/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 500 Gm
Sampling Type : Garb

Name of Sample : Hazardous Waste (Fly Ash)
Sample Group : Pollution & Environment
Location : Boiler No-1
Sample Collected By : VEL Representative (Mr. Ravi)
Environmental Condition : 25±2°C
Sampling and Analysis Protocol : IS:2720 , STP

S.No.	Parameters	Test Method	Results	Units
Discipline : Chemical				
1	Cadmium (as Cd)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQ(LOQ-0.1)	mg/kg
2	Chromium (as Cr)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	1.68	mg/kg
3	Copper (as Cu)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	5.06	mg/kg
4	Total Lead (as Pb)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	2.32	mg/kg
5	Total Manganese (as Mn)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	14.97	mg/kg
6	Mercury (as Hg)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQ(LOQ-0.1)	mg/kg
7	Nickel (as Ni)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	2.15	mg/kg
8	Total Zinc (as Zn)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	16.49	mg/kg
9	Arsenic	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	2.87	mg/kg
10	Antimony as Sb	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.20	mg/kg

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Test Report

Page No. 2/2

Sample Number : VEL/PE/01

Report No. : VEL/PE/2504261001

S.No.	Parameters	Test Method	Results	Units
10		01/10/2023		

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Test Report

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Sample Number : VEL/PE/02
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dasheria Kherli Khuza BSR U.P.

Report No. : VEL/PE/2504261002
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 01/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 500 Gm
Sampling Type : Grab

Name of Sample : Hazardous Waste (Bottam Ash)
Sample Group : Pollution & Environment
Location : Boiler No-1
Sample Collected By : VEL Representative (Mr. Ravi)
Environmental Condition : 25±2°C
Sampling and Analysis Protocol : IS:2720 , STP

S.No.	Parameters	Test Method	Results	Units
Discipline : Chemical				
1	Cadmium (as Cd)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQ(LOQ-0.1)	mg/kg
2	Chromium (as Cr)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	1.57	mg/kg
3	Copper (as Cu)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	4.21	mg/kg
4	Total Lead (as Pb)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	1.28	mg/kg
5	Total Manganese (as Mn)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	40.76	mg/kg
6	Mercury (as Hg)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQ(LOQ-0.1)	mg/kg
7	Nickel (as Ni)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	2.24	mg/kg
8	Total Zinc (as Zn)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	18.08	mg/kg
9	Arsenic	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.90	mg/kg
10	Antimony as Sb	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.19	mg/kg

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Test Report

Page No. 2/2

Sample Number : VEL/PE/02

Report No. : VEL/PE/2504261002

S.No.	Parameters	Test Method	Results	Units
10		01/10/2023		

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Test Report

Sample Number : VEL/PE/06
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dasheria Kherli Khuza BSR U.P.

Report No. : VEL/PE/2504261008
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 03/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 2.0 Ltrs.
Sampling Type : Grab

Name of Sample : Waste Water (STP Inlet)
Sample Group : Pollution & Environment
Location : STP Plant Inlet-01
Sample Collected By : VEL Representative (Mr. Satish)
Environmental Condition : 25±2°C
Sampling and Analysis Protocol : APHA, IS & STP

ULR No. : TC629925200004687F

S.No.	Test Parameters	Test Method	Result	Unit
Discipline : Chemical				
1	pH at 25°C	IS:3025:P-11: 2022 (Using by Electrode)	7.57	--
2	Total Suspended Solid at 105°C (TSS)	IS: 3025 (P-17): 2022 (Gravimetric Method)	49.80	mg/L
3	Temperature	IS:3025 (P-9): 2023	28.6	°C
4	Oil & Grease	IS:3025 (P-39) : 2021:(Gravimetric Method)	BLQ(LOQ-4.0)	mg/L
5	Biological Oxygen Demand at 27°C	IS 3025:Part-44: 2023	6.42	mg/L
6	Chemical Oxygen Demand at 150°C	IS:3025 (P-58) :2023(Open reflux method)	96.00	mg/L
7	Total Chromium.	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.002)	mg/L
8	Copper.	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.002)	mg/L
9	Zinc	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	0.039	mg/L
10	Total Phosphate (as P)	IS:3025:P-31/Sec- 1):2022 (Stannous chloride Method)	0.51	mg/L
11	Residual Free Chlorine	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1)	mg/L
12	Iron	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	0.027	mg/L

Reviewed By: 03/05/25



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Test Report

Page No. 2/2

Sample Number : VEL/PE/06

Report No. : VEL/PE/2504261008

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Dr. Shiv Prakash



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Test Report

Sample Number : VEL/PE/05
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dashera Kherli Khuza BSR U.P.

Report No. : VEL/PE/2504261007
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 03/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 2.0 Ltrs.
Sampling Type : Grab

Name of Sample : Waste Water (STP Inlet)
Sample Group : Pollution & Environment
Location : STP Plant Inlet-02
Sample Collected By : VEL Representative (Mr. Satish)
Environmental Condition : 25±2°C
Sampling and Analysis Protocol : APHA, IS & STP

ULR No. : TC629925200004686F

S.No.	Test Parameters	Test Method	Result	Unit
Discipline : Chemical				
1	pH at 25°C	IS:3025:P-11: 2022 (Using by Electrode)	7.47	--
2	Total Suspended Solid at 105°C (TSS)	IS: 3025 (P-17): 2022 (Gravimetric Method)	49.20	mg/L
3	Temperature	IS:3025 (P-9): 2023	28.2	°C
4	Oil & Grease	IS:3025 (P-39) : 2021:(Gravimetric Method)	BLQ(LOQ-4.0)	mg/L
5	Biological Oxygen Demand at 27°C	IS 3025:Part-44: 2023	27.00	mg/L
6	Chemical Oxygen Demand at 150°C	IS:3025 (P-58) :2023(Open reflux method)	104.00	mg/L
7	Total Chromium.	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.002)	mg/L
8	Copper.	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.002)	mg/L
9	Zinc	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	0.037	mg/L
10	Total Phosphate (as P)	IS:3025:P-31/Sec- 1):2022 (Stannous chloride Method)	0.58	mg/L
11	Residual Free Chlorine	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1)	mg/L
12	Iron	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	0.027	mg/L

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03/05/25



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Test Report

Page No. 2/2

Sample Number : VEL/PE/05

Report No. : VEL/PE/2504261007

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Test Report

Page No. 1/2

Sample Number : VEL/PE/07
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dashera Kherli Khuza BSR U.P.

Report No. : VEL/PE/2504261010
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 03/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 2.0 Ltrs.
Sampling Type : Grab
ULR No. : TC629925200004689F

Name of Sample : Waste Water(STP Outlet)
Sample Group : Pollution & Environment
Location : STP Plant Outlet-01
Sample Collected By : VEL Representative (Mr. Satish)
Environmental Condition : 25±2°C
Parameter Required : As per work order
Analysis Protocol : APHA ,IS & STP

S.No.	Test Parameters	Test Method	Result	Unit	Environment (Protection) Amendment Rules, 2017.		
					Inland Surface Water	Public Sewers	Land for Irrigation
Discipline : Chemical							
1	pH at 25°C	IS:3025:P-11: 2022 (Using by Electrode)	7.43	--	6.5 - 9.0	6.5 - 9.0	6.5 - 9.0
2	Total Suspended Solid at 105°C (TSS) ,max.	IS: 3025 (P-17): 2022 (Gravimetric Method)	12.80	mg/L	100	100	100
3	Temperature	IS:3025 (P-9): 2023	28.2	°C	--	--	--
4	Oil & Grease	IS:3025 (P-39) : 2021:(Gravimetric Method)	BLQ(LOQ-4.0)	mg/L	--	--	--
5	Biological Oxygen Demand at 27°C, Max.	IS 3025:Part-44: 2023	3.90	mg/L	30	30	30
6	Chemical Oxygen Demand at 150°C	IS:3025 (P-58) :2023(Open reflux method)	40.00	mg/L	50	50	50
7	Total Chromium	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.002)	mg/L	--	--	--
8	Copper	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.002)	mg/L	--	--	--
9	Zinc	VEL/W/STP/03,Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.01)	mg/L	--	--	--
10	Total Phosphate (as PO4)	IS:3025:P-31/Sec- 1):2022	0.44	mg/L	--	--	--

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Test Report

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Sample Number : VEL/PE/07

Report No. : VEL/PE/2504261010

S.No.	Test Parameters	Test Method	Result	Unit	Environment (Protection) Amendment Rules, 2017.		
					Inland Surface Water	Public Sewers	Land for Irrigation
10		(Stannous chloride Method)					
11	Residual Free Chlorine	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1)	mg/L	--	--	--
12	Iron	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.01)	mg/L	--	--	--

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

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Dr. Shiv
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TC-6299

Test Report

Page No. 1/2

Sample Number : VEL/PE/06
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dashera Kheri Khuza BSR U.P.

Report No. : VEL/PE/2504261009
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 03/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 2.0 Ltrs.
Sampling Type : Grab
ULR No. : TC629925200004688F

Name of Sample : Waste Water(STP Outlet)
Sample Group : Pollution & Environment
Location : STP Plant Outlet-02
Sample Collected By : VEL Representative (Mr. Satish)
Environmental Condition : 25±2°C
Parameter Required : As per work order
Analysis Protocol : APHA ,IS & STP

S.No.	Test Parameters	Test Method	Result	Unit	Environment (Protection) Amendment Rules, 2017.		
					Inland Surface Water	Public Sewers	Land for Irrigation
Discipline : Chemical							
1	pH at 25°C	IS:3025:P-11: 2022 (Using by Electrode)	7.94	--	6.5 - 9.0	6.5 - 9.0	6.5 - 9.0
2	Total Suspended Solid at 105°C (TSS) ,max.	IS: 3025 (P-17): 2022 (Gravimetric Method)	17.80	mg/L	100	100	100
3	Temperature	IS:3025 (P-9): 2023	26.3	°C	--	--	--
4	Oil & Grease	IS:3025 (P-39) : 2021:(Gravimetric Method)	BLQ(LOQ-4.0)	mg/L	--	--	--
5	Biological Oxygen Demand at 27°C, Max.	IS 3025:Part-44: 2023	4.25	mg/L	30	30	30
6	Chemical Oxygen Demand at 150°C	IS:3025 (P-58) :2023(Open reflux method)	48.00	mg/L	50	50	50
7	Total Chromium	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.002)	mg/L	--	--	--
8	Copper	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.002)	mg/L	--	--	--
9	Zinc	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.01)	mg/L	--	--	--
10	Total Phosphate (as PO4)	IS:3025:P-31/Sec- 1):2022	0.53	mg/L	--	--	--

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Dr. Shiv Prakash Singh

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Test Report

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Sample Number : VEL/PE/06

Report No. : VEL/PE/2504261009

S.No.	Test Parameters	Test Method	Result	Unit	Environment (Protection) Amendment Rules, 2017.		
					Inland Surface Water	Public Sewers	Land for Irrigation
10		(Stannous chloride Method)					
11	Residual Free Chlorine	IS:3025:P-26: 2021(Colorimetric Method using DPD)	BLQ(LOQ-0.1)	mg/L	--	--	--
12	Iron	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023:2023	BLQ(LOQ-0.01)	mg/L	--	--	--

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Test Report

Page No. 1/2

Sample Number : VEL/PE/08
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dasheria Kherii Khuza BSR U.P.

Report No. : VEL/PE/2504261011
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 03/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 2.0 Ltrs.
Sampling Type : Grab
ULR No. : TC629925200004690F

Name of Sample : WASTE WATER
Sample Group : Pollution & Environment
Location : Ash Recovery Water No-1
Sample Collected By : VEL Representative (Mr. Satish)
Environmental Condition : 25±2°C
Sampling and Analysis Protocol : IS, APHA & STP

S.No.	Test Parameters	Test Method	Result	Unit
Discipline : Chemical				
1	Lead	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.002)	mg/L
2	Chromium	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.002)	mg/L
3	Manganese	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.01)	mg/L
4	Mercury	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.0005)	mg/L
5	Nickel	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.002)	mg/L
6	Iron	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.01)	mg/L
7	Vanadium	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.002)	mg/L
8	Zinc	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.01)	mg/L
9	Cyanide (as CN)	IS 3025 (P-27/Sec1), Pyridin Barbituric Acid Method	BLQ(LOQ-0.05)	mg/L

Reviewed By

Satish
03/05/25



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Test Report

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Sample Number : VEL/PE/08

Report No. : VEL/PE/2504261011

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Test Report

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Sample Number : VEL/PE/09
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dasheria Kherli Khuza BSR U.P.

Report No. : VEL/PE/2504261012
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 03/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 2.0 Ltrs.
Sampling Type : Grab

Name of Sample : WASTE WATER
Sample Group : Pollution & Environment
Location : Ash Recovery Water No-2
Sample Collected By : VEL Representative (Mr. Sateesh)
Environmental Condition : 25±2°C
Sampling and Analysis Protocol : IS, APHA & STP

ULR No. : TC629925200004691F

S.No.	Test Parameters	Test Method	Result	Unit
Discipline : Chemical				
1	Lead	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.002)	mg/L
2	Chromium	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.002)	mg/L
3	Manganese	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.01)	mg/L
4	Mercury	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.0005)	mg/L
5	Nickel	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.002)	mg/L
6	Iron	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.01)	mg/L
7	Vanadium	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.002)	mg/L
8	Zinc	VEL/W/STP/03, Issue No. -01, Issue date 01/11/2023	BLQ(LOQ-0.01)	mg/L
9	Cyanide (as CN)	IS 3025 (P-27/Sec1), Pyridin Barbituric Acid Method	BLQ(LOQ-0.05)	mg/L

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Test Report

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Sample Number : VEL/PE/09

Report No. : VEL/PE/2504261012

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Test Report

Page No. 1/2

Sample Number : VEL/PE/09
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dashera Kherli Khuza BSR U.P.

Report No. : VEL/PE/2504261013
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 05/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 2.0 Ltrs.
Sampling Type : Grab
ULR No. : TC629925200004741F

Name of Sample : Sludge
Sample Group : Pollution & Environment
Location : ETP Sludge -02
Sample Collected By : VEL Representative (Mr. Satish)
Environmental Condition : 25±2°C
Sampling and Analysis Protocol : IS:2720 , STP

S.No.	Parameters	Test Method	Results	Units
Discipline : Chemical				
1	Arsenic as As	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.62	mg/kg
2	Calcium oxide (CaO)	VEL/EN/STP/ 72, Issue No.-1 Issue date 01/11/2023	21.71	mg/L
3	Magnesium oxide (MgO)	VEL/EN/STP/ 72, Issue No.-1 Issue date 01/11/2023	92.63	mg/L
4	Cadmium (as Cd)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQ(LOQ-0.1)	mg/kg
5	Chromium (as Cr)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.10	mg/kg
6	Copper (as Cu)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.46	mg/kg
7	Total Lead (as Pb)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.26	mg/kg
8	Mercury (as Hg)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQLOQ-0.1)	mg/kg
9	Nickel (as Ni)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQLOQ-0.1)	mg/kg
10	Vanadium (as V)	VEL/HW/STP/03, Issue No.- 01, Issue date	0.48	mg/kg

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Satish
03/05/25



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Dr. Shiv
Shiv



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Test Report

Sample Number : VEL/PE/09

Report No. : VEL/PE/2504261013

S.No.	Parameters	Test Method	Results	Units
10		01/10/2023		
11	Total Zinc (as Zn)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	7.19	mg/kg
12	Iron(III) oxide (Fe ₂ O ₃)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	168.02	mg/kg
13	Aluminum oxide (Al ₂ O ₃)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	320.22	mg/kg
14	Antimony as Sb	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.10	mg/kg

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Test Report

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Sample Number : VEL/PE/10
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dashera Kherli Khuza BSR U.P.

Report No. : VEL/PE/2504261014
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 05/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 2.0 Ltrs.
Sampling Type : Grab
ULR No. : TC629925200004742F

Name of Sample : Sludge
Sample Group : Pollution & Environment
Location : ETP Sludge (1545 KLD)
Sample Collected By : VEL Representative (Mr. Satish)
Environmental Condition : 25±2°C
Sampling and Analysis Protocol : IS:2720 , STP

S.No.	Parameters	Test Method	Results	Units
Discipline : Chemical				
1	Arsenic as As	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.20	mg/kg
2	Calcium oxide (CaO)	VEL/EN/STP/ 72, Issue No.-1 Issue date 01/11/2023	43.43	mg/kg
3	Magnesium oxide (MgO)	VEL/EN/STP/ 72, Issue No.-1 Issue date 01/11/2023	69.46	mg/kg
4	Cadmium (as Cd)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQ(LOQ-0.1)	mg/kg
5	Chromium (as Cr)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.30	mg/kg
6	Copper (as Cu)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.34	mg/kg
7	Total Lead (as Pb)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	0.18	mg/kg
8	Mercury (as Hg)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQ(LOQ-0.1)	mg/kg
9	Nickel (as Ni)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQ(LOQ-0.1)	mg/kg
10	Vanadium (as V)	VEL/HW/STP/03, Issue No.- 01, Issue date	0.26	mg/kg

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Test Report

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Sample Number : VEL/PE/10

Report No. : VEL/PE/2504261014

S.No.	Parameters	Test Method	Results	Units
10		01/10/2023		
11	Total Zinc (as Zn)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	5.58	mg/kg
12	Iron(III) oxide (Fe ₂ O ₃)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	49.62	mg/kg
13	Aluminum oxide (Al ₂ O ₃)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	112.87	mg/kg
14	Antimony as Sb	VEL/HW/STP/03, Issue No.- 01, Issue date 01/10/2023	BLQ(LOQ-0.1)	--

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification.

End of Report

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TC-6299

Test Report

Page No. 1/1

Sample Number : VEL/PE/10
Name & Address of the Party : M/s Khurja Super Thermal Power Project
Village & Post- Dashera Kherli Khuza BSR U.P.

Report No. : VEL/PE/2504261015
Format No : 7.8 F-03
Party Reference No : By Mail
Reporting Date : 05/05/2025
Period of Analysis : 26/04/2025-01/05/2025
Receipt Date : 26/04/2025
Sampling Date : 23/04/2025
Sampling Quantity : 2.0 Ltrs.
Sampling Type : Grab
Packing Status : Temp. Sealed
ULR No. : TC629925200004743F

Name of Sample : Used oil
Sample Group : Pollution & Environment
Location : PA Fan Cube Oil
Sample Collected By : VEL Representative (Mr. Satish)
Environmental Condition : 25±2°C
Parameter Required : As per Work Order
Sampling and Analysis Protocol : IS : 1448, ASTM, USEPA

S.No.	Parameter	Test Method	Results	Units	Limits as Per EPA
Discipline : Chemical					
1	PCB's	VEL/ENV/STP/O/04, Issue No.-01, Issue date 01/11/2021	BLQ(LOQ-0.01)	ppm	2.0 (Max.)
2	Lead	USEPA 3031	0.33	ppm	100.0 (Max.)
3	Arsenic	USEPA 3031	BLQ(LOQ-0.1)	ppm	5.0 (Max.)
4	Chromium+Cadmium+Nickel	USEPA 3031	1.12	ppm	500.0 (Max.)
5	PAH's	VEL/ENV/STP/O/04, Issue No.-01, Issue date 01/11/2021	BLQ(LOQ-0.01)	ppm	6.0 (Max.)

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TC-12621

TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-046/21/04/25		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dashera Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 25/04/2025
Analysis Start Date	: 21/04/2025	Sampling Done By	: NCL
Date of Sampling	: 19/04/2025	Duration of Sampling	: 30 Minutes
Sampling Protocol	: IS : 11255	Sample ID No.	: NCL/EP-046/21/04/25
Sampling Location	: -	Area Category	: --
Equipments Used	: Stack Kit +Gas Analyser		

DETAILS OF STACK

Stack Attached to	: Boiler	Capacity	: 2100 TPH
Type of fuel used	: Indian coal	Quantity of fuel used	: --
Stack height above the ground level	: 150.0 Mtr	Stack height above the roof top	: --
Stack dia at the top	: 7500 mm	Material of Construction	: MS
Attached APCS	: ESP	Normal Oprating Schedule	: 24 Hrs
Comminssioning date	: --		

PHYSICAL OBSERVATIONS

Ambient Temperature	: 35°C	Flue gas temperature	: 120°C
Velocity of the flue gases	: 4.38 mtr/sec	Sampling Flow Rate of SPM	: 13.0 LPM
Sampling Flow Rate for Gases	: 2.1 LPM	Quantity of Emission discharged	: 514056 Nm ³ /hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Particulate Matters (PM)	mg/Nm ³	IS:11255 (Part-1)	28	30
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS:11255 (Part-2)	92	100
3	Carbon Monoxide (CO)	%	IS:13270	0.68	1
4	Oxide of Nitrogen (NO _x)	mg/Nm ³	IS:11255 (Part-7)	97	100
5	Hydro Carbon (HC)	%	IS:13270	BDL(DL-0.03)	Not Specified
6	Mercury (Hg)	mg/Nm ³	NCL/STP/AAS/01	BDL(DL-0.01)	0.03
7	Oxygen (O ₂)	%	IS:13270	13	Not Specified

EP-046/21/04/25-1



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TEST REPORT No. NCL/EP-046/21/04/25

DATE OF REPORT : 25/04/2025

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EP-046/21/04/25-2



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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-040/21/04/25/A		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dasheria Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAIL

Sample Name : AMBIENT AIR
 Analysis Start Date : 21/04/2025 Analysis End Date : 25/04/2025
 Date of Sampling : 19/04/2025 Sampling Done By : NCL
 Time of Sampling : 11:00 AM (19/04) TO 11:00 AM (20/04) Sampling Location : Water Reservoir (North)
 Sampling Protocol : IS:5182
 Sampling Flow Rate for : 0.5 LPM Sample ID No. : NCL/EP-040/21/04/25
 Gases Sampling Flow Rate of SPM : 1.23 Mtr³/Min (Average)
 Sampling Duration : 24 Hrs Sampling Machine Placed at : 3.0 Mtr Height (from ground)
 Equipments Used : Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

PHYSICAL OBSERVATIONS

Ambient Temperature : 34°C Wind Direction : East to West
 Weather Conditions : Clear

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	121	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	NCL/AIR/STP-09	76	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	21.8	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.68	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	41.8	For 24 Hrs=80
6	Lead (Pb)	µg/m ³	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O ₃)	µg/m ³	IS:5182 (Part-9)	21.5	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH ₃)	µg/m ³	NCL/AIR/STP-13	BDL(DL-20.0)	For 24 Hrs=400
9	Benzene (C ₆ H ₆)	µg/m ³	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05
10	Benzo (a) Pyrene (BaP)	ng/m ³	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual=01

EP-040/21/04/25-1



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Arvind Choudhary
 Sr. Analyst

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NCL/040073/22

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Page No.: 2 of 2

TEST REPORT No. NCL/EP-040/21/04/25/A

DATE OF REPORT : 25/04/2025

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
11	Arsenic (As)	ng/m3	NCL/AIR/STP-19	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	NCL/AIR/STP-17	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=BELOW DETECTION LIMIT.

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Test Report

Page No. 1/1

Sample Number : VEL/AP/04

Name & Address of the Party : M/s THDC India Ltd.

Khurja Super Thermal Power Plant Project, Village &
Post- Dasheria Kherli, Tehsil- Khurja,
District-Bulandshahr, U.P.

Report No. : VEL/AP/2505051060

Format No : 7.8 F-03

Party Reference No : BY Mail

Reporting Date : 07/05/2025

Period of Analysis : 05/05/2025-07/05/2025

Receipt Date : 05/05/2025

ULR No. : TC629925200004778F

Name of Sample

: Ambient Air

Sample Group

: Atmospheric Pollution

General Information

Sampling Location : Water Reservoir (North)
 Sample Collected By : VEL Representative (Mr. Sateesh)
 Sampling Equipment used : RDS
 Instrument Code : VEL/INS/RDS/04
 Instrument Calibration Status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 03/05/2025 To 04/05/2025
 Time of Monitoring : 10:34 AM to 10:34 AM
 Ambient Temperature (°C) : Min.26°C, Max.42°C
 Surrounding Activity : Human & Vehicular Activities
 Scope of Monitoring : Regulatory Requirement
 Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines
 Sampling Duration : 24.0 Hours.
 Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
Discipline : Chemical					
1	Mercury as (Hg)	VEL/EN/STP/129, Issue No.- 01, Issue date 01/11/2023	BLQ(LOQ-1.0)	ng/m3	Not Specified

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-038/21/04/25/A		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dasheria Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAIL

Sample Name	: AMBIENT AIR	Analysis End Date	: 25/04/2025
Analysis Start Date	: 21/04/2025	Sampling Done By	: NCL
Date of Sampling	: 19/04/2025	Sampling Location	: Towards Gate No-3 (South)
Time of Sampling	: 10:00 AM (19/04) TO 10:00 AM (20/04)	Sample ID No.	: NCL/EP-038/21/04/25
Sampling Protocol	: IS:5182	Sampling Flow Rate of SPM (Average)	: 1.24 Mtr ³ /Min
Sampling Flow Rate for Gases	: 0.5 LPM	Sampling Machine Placed at Height (from ground)	: 3.0 Mtr
Sampling Duration	: 24 Hrs	Equipments Used	: Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

PHYSICAL OBSERVATIONS

Ambient Temperature	: 34°C	Wind Direction	: East to West
Weather Conditions	: Clear		

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	125	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	NCL/AIR/STP-09	78	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	22.3	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.71	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	42.6	For 24 Hrs=80
6	Lead (Pb)	µg/m ³	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O ₃)	µg/m ³	IS:5182 (Part-9)	21.8	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH ₃)	µg/m ³	NCL/AIR/STP-13	BDL(DL-20.0)	For 24 Hrs=400
9	Benzene (C ₆ H ₆)	µg/m ³	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05
10	Benzo (a) Pyrene (BaP)	ng/m ³	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual=01

EP-038/21/04/25-1



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Sr. Analyst

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TEST REPORT No. NCL/EP-038/21/04/25/A DATE OF REPORT : 25/04/2025

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
11	Arsenic (As)	ng/m3	NCL/AIR/STP-19	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	NCL/AIR/STP-17	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=BELOW DETECTION LIMIT.

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Test Report

Page No. 1/1

Sample Number : VEL/AP/03
Name & Address of the Party : M/s THDC India Ltd.
Khurja Super Thermal Power Plant Project, Village &
Post- Dashera Kherli, Tehsil- Khurja,
District-Bulandshahr, U.P.
Name of Sample : Ambient Air
Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2505051059
Format No : 7.8 F-03
Party Reference No : BY Mail
Reporting Date : 07/05/2025
Period of Analysis : 05/05/2025-07/05/2025
Receipt Date : 05/05/2025
ULR No. : TC629925200004777F

General Information

Sampling Location : Towards Gate No-3 (South)
Sample Collected By : VEL Representative (Mr. Sateesh)
Sampling Equipment used : RDS
Instrument Code : VEL/INS/RDS/03
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 03/05/2025 To 04/05/2025
Time of Monitoring : 11:35 AM to 11:35 AM
Ambient Temperature (°C) : Min.26°C, Max.42°C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines
Sampling Duration : 24.0 Hours.
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
Discipline : Chemical					
1	Mercury as (Hg)	VEL/EN/STP/129, Issue No.- 01, Issue date 01/11/2023	BLQ(LOQ-1.0)	ng/m3	Not Specified

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

End of Report

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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-039/21/04/25/A		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dashera Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAIL

Sample Name : AMBIENT AIR
 Analysis Start Date : 21/04/2025 Analysis End Date : 25/04/2025
 Date of Sampling : 19/04/2025 Sampling Done By : NCL
 Time of Sampling : 10:30 AM (19/04) TO 10:30 AM (20/04) Sampling Location : Railway Siding (West)
 Sampling Protocol : IS:5182 Sample ID No. : NCL/EP-039/21/04/25
 Sampling Flow Rate for : 0.5 LPM Sampling Flow Rate of SPM : 1.21 Mtr³/Min
 Gases (Average)
 Sampling Duration : 24 Hrs Sampling Machine Placed at : 3.0 Mtr
 Equipments Used : Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment Height (from ground)

PHYSICAL OBSERVATIONS

Ambient Temperature : 34°C Wind Direction : East to West
 Weather Conditions : Clear

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	130	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	NCL/AIR/STP-09	82	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	23.8	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.77	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	44.4	For 24 Hrs=80
6	Lead (Pb)	µg/m ³	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O ₃)	µg/m ³	IS:5182 (Part-9)	22.7	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH ₃)	µg/m ³	NCL/AIR/STP-13	BDL(DL-20.0)	For 24 Hrs=400
9	Benzene (C ₆ H ₆)	µg/m ³	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05
10	Benzo (a) Pyrene (BaP)	ng/m ³	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual=01

EP-039/21/04/25-1



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TEST REPORT No. NCL/EP-039/21/04/25/A DATE OF REPORT : 25/04/2025

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
11	Arsenic (As)	ng/m3	NCL/AIR/STP-19	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	NCL/AIR/STP-17	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=BELOW DETECTION LIMIT.

EP-039/21/04/25-2



Checked by

Arvind Choudhary
Sr Analyst



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Test Report

Page No. 1/1

Sample Number : VEL/AP/02
Name & Address of the Party : M/s THDC India Ltd.
Khurja Super Thermal Power Plant Project, Village &
Post- Dasheria Kherli, Tehsil- Khurja,
District-Bulandshahr, U.P.

Report No. : VEL/AP/2505051058
Format No : 7.8 F-03
Party Reference No : BY Mail
Reporting Date : 07/05/2025
Period of Analysis : 05/05/2025-07/05/2025
Receipt Date : 05/05/2025
ULR No. : TC629925200004776F

Name of Sample : Ambient Air
Sample Group : Atmospheric Pollution

General Information

Sampling Location : Railway Sinding (West)
Sample Collected By : VEL Representative (Mr. Sateesh)
Sampling Equipment used : RDS
Instrument Code : VEL/INS/RDS/02
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 03/05/2025 To 04/05/2025
Time of Monitoring : 10:20 AM to 10:20 AM
Ambient Temperature (°C) : Min.26°C, Max.42°C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines
Sampling Duration : 24.0 Hours.
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
Discipline : Chemical					
1	Mercury as (Hg)	VEL/EN/STP/129, Issue No.- 01, Issue date 01/11/2023	BLQ(LOQ-1.0)	ng/m3	Not Specified

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

End of Report

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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-041/21/04/25/A		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dashera Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAIL

Sample Name : AMBIENT AIR
 Analysis Start Date : 21/04/2025 Analysis End Date : 25/04/2025
 Date of Sampling : 19/04/2025 Sampling Done By : NCL
 Time of Sampling : 11:30 AM (19/04) TO 11:30 AM (20/04) Sampling Location : After Switch Yard (East)
 Sampling Protocol : IS:5182
 Sample ID No. : NCL/EP-041/21/04/25
 Sampling Flow Rate for : 0.5 LPM Sampling Flow Rate of SPM : 1.22 Mtr³/Min (Average)
 Gases Sampling Machine Placed at : 3.0 Mtr Height (from ground)
 Sampling Duration : 24 Hrs
 Equipments Used : Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

PHYSICAL OBSERVATIONS

Ambient Temperature : 34°C Wind Direction : East to West
 Weather Conditions : Clear

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m3	IS:5182 (Part 23)	128	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m3	NCL/AIR/STP-09	80	For 24 Hrs=60
3	Sulphur Dioxide (SO2)	µg/m3	IS:5182 (Part 2)	22.6	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m3	IS:5182 (Part 10)	0.74	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO2)	µg/m3	IS:5182 (Part 6)	43.3	For 24 Hrs=80
6	Lead (Pb)	µg/m3	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O3)	µg/m3	IS:5182 (Part-9)	22.2	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH3)	µg/m3	NCL/AIR/STP-13	BDL(DL-20.0)	For 24 Hrs=400
9	Benzene (C6 H6)	µg/m3	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05
10	Benzo (a) Pyrene (BaP)	ng/m3	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual=01

EP-041/21/04/25-1



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Arvind Choudhary
 Sr. Analyst

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TEST REPORT No. NCL/EP-041/21/04/25/A

DATE OF REPORT : 25/04/2025

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
11	Arsenic (As)	ng/m3	NCL/AIR/STP-19	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	NCL/AIR/STP-17	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=BELOW DETECTION LIMIT.

EP-041/21/04/25-2



Arvind Choudhary
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Test Report

Page No. 1/1

Sample Number : VEL/AP/01

Name & Address of the Party : M/s THDC India Ltd.

Khurja Super Thermal Power Plant Project, Village &
Post- Dashera Kherli, Tehsil- Khurja,
District-Bulandshahr, U.P.

Report No. : VEL/AP/2505051057

Format No : 7.8 F-03

Party Reference No : BY Mail

Reporting Date : 07/05/2025

Period of Analysis : 05/05/2025-07/05/2025

Receipt Date : 05/05/2025

ULR No. : TC629925200004775F

Name of Sample

: Ambient Air

Sample Group

: Atmospheric Pollution

General Information

Sampling Location : After Switch Yard (East)
Sample Collected By : VEL Representative (Mr. Saleesh)
Sampling Equipment used : RDS
Instrument Code : VEL/INS/RDS/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 03/05/2025 To 04/05/2025
Time of Monitoring : 11:16 AM to 11:16 AM
Ambient Temperature (°C) : Min.26°C, Max.42°C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS: 5182 & CPCB Guidelines
Sampling Duration : 24.0 Hours.
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Results	Units	Limits as per NAAQS
Discipline : Chemical					
1	Mercury as (Hg)	VEL/EN/STP/129, Issue No.- 01, Issue date 01/11/2023	BLQ(LOQ-1.0)	ng/m3	Not Specified

BLQ- Below Limit of Quantification, LOQ- Limit of Quantification.

End of Report

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Page No.: 1 of 1

TEST REPORT No. NCL/EP-045/21/04/25		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dashera Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAIL

Sample Name : Ambient Noise
 Analysis Start Date : 21/04/2025 Analysis End Date : 21/04/2025
 Date of Monitoring : 19/04/2025 Monitoring Done By : NCL
 Monitoring Duration : 24 Hrs Place of Monitoring : After Switch Yard (East)
 Time of Monitoring : 01:30 PM (19/04) TO 01:30 PM (20/04) Protocol : NCL/AIR/STP/20
 Category of Area : Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	66.7	67.4	67.9	66.2	68.1	68.5	69.2	69.9	70.5	67.2
Night Time Reading (dB(A))	54.6	54.9	57.1	57.4	55.3	55.6	56.2	56.8	58.4	59.5

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
Day Time Noise Level			
1	Average Noise Level	68.2	-
2	L Max	70.5	-
3	L Min	66.4	-
4	Day Leq	68.4	75.0 Max
Night Time Noise Level			
5	Average Noise Level	56.6	-
6	L Max	59.5	-
7	L Min	54.6	-
8	Night Leq	56.8	70.0 Max

End of Report

Remarks : >Day time reckoned between 6:00AM To 10:00PM.
>Night time reckoned between 10:00PM To 06:00AM.

EP-045/21/04/25-1



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TEST REPORT

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TEST REPORT No. NCL/EP-042/21/04/25		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dashera Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAIL

Sample Name : Ambient Noise
 Analysis Start Date : 21/04/2025 Analysis End Date : 21/04/2025
 Date of Monitoring : 19/04/2025 Monitoring Done By : NCL
 Monitoring Duration : 24 Hrs Place of Monitoring : Towards Gate No-3 (South)
 Time of Monitoring : 12:00 PM (19/04) TO 12:00 PM (20/04) Protocol : NCL/AIR/STP/20
 Category of Area : Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	65.8	64.6	63.7	65.2	66.3	66.8	67.2	67.5	68.1	68.6
Night Time Reading (dB(A))	54.2	54.6	55.5	55.8	56.1	56.4	56.9	57.2	57.4	58.1

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
Day Time Noise Level			
1	Average Noise Level	66.4	-
2	L Max	68.6	-
3	L Min	63.7	-
4	Day Leq	66.4	75.0 Max
Night Time Noise Level			
5	Average Noise Level	56.2	-
6	L Max	58.1	-
7	L Min	54.2	-
8	Night Leq	56.4	70.0 Max

End of Report

Remarks : >Day time reckoned between 6:00AM To 10:00PM.
 >Night time reckoned between 10:00PM To 06:00AM.

EP-042/21/04/25-1



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-043/21/04/25		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dashera Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAIL

Sample Name : Ambient Noise
 Analysis Start Date : 21/04/2025 Analysis End Date : 21/04/2025
 Date of Monitoring : 19/04/2025 Monitoring Done By : NCL
 Monitoring Duration : 24 Hrs Place of Monitoring : Railway Siding (West)
 Time of Monitoring : 12:30 PM (19/04) TO 12:30 PM (20/04) Protocol : NCL/AIR/STP/20
 Category of Area : Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	62.9	64.8	65.7	66.6	68.4	67.5	69.2	69.7	70.4	71.1
Night Time Reading (dB(A))	54.4	55.6	53.8	57.2	56.9	55.3	55.9	56.4	57.2	59.7

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
Day Time Noise Level			
1	Average Noise Level	67.6	-
2	L Max	71.1	-
3	L Min	62.9	-
4	Day Leq	67.8	75.0 Max
Night Time Noise Level			
5	Average Noise Level	56.2	-
6	L Max	59.7	-
7	L Min	53.8	-
8	Night Leq	56.4	70.0 Max

End of Report

Remarks : >Day time reckoned between 6:00AM To 10:00PM.
 >Night time reckoned between 10:00PM To 06:00AM.

EP-043/21/04/25-1



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-044/21/04/25		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dasheria Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAIL

Sample Name : Ambient Noise
 Analysis Start Date : 21/04/2025 Analysis End Date : 21/04/2025
 Date of Monitoring : 19/04/2025 Monitoring Done By : NCL
 Monitoring Duration : 24 Hrs Place of Monitoring : Water Reservoir (North)
 Time of Monitoring : 01:00 PM (19/04) TO 01:00 PM (20/04) Protocol : NCL/AIR/STP/20
 Category of Area : Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	64.8	66.7	67.5	68.3	68.9	69.4	70.1	70.6	65.8	66.3
Night Time Reading (dB(A))	51.6	52.4	52.9	53.7	53.6	54.1	54.5	55.2	55.6	56.8

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
Day Time Noise Level			
1	Average Noise Level	67.8	-
2	L Max	70.6	-
3	L Min	64.8	-
4	Day Leq	68.0	75.0 Max
Night Time Noise Level			
5	Average Noise Level	54.0	-
6	L Max	56.8	-
7	L Min	51.6	-
8	Night Leq	54.2	70.0 Max

End of Report

Remarks : >Day time reckoned between 6:00AM To 10:00PM.
 >Night time reckoned between 10:00PM To 06:00AM.

EP-044/21/04/25-1



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TEST REPORT

Page No.: 1 of 3

TEST REPORT No. NCL/EP-036/21/04/25/A		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dashera Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAILS

Sample Name	: Surface Water	Analysis End Date	: 25/04/2025
Analysis Start Date	: 21/04/2025	Sample ID No.	: NCL/EP-036/21/04/25
Date of Sampling	: 19/04/2025	Sample Receipt Date	: 21/04/2025
Time of Sampling	: 01:20 PM	Environmental Condition	: 27±2°C
Sampling Done By	: NCL		
Sample Description	: Surface Water		
Sampling Location	: Aligarh Drain (D/S)	Sample Quantity	: 10+2 Ltr
Sampling Protocol	: IS:17614 (P-1)	Packing	: PVC CANE
Packing Condition	: Sealed		

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result
Organoleptic and Physical Parameter				
1	Colour	Hazen	IS : 3025 (P-4)	BDL(DL-1.0)
2	Odour	-	IS : 3025 (P-5)	Agreeable
3	Turbidity	NTU	IS : 3025 (P-10)	BDL(DL-1.0)
4	Temperature	°C	IS : 3025 (P-9)	26.4
5	pH Value	--	IS : 3025 (P-11)	7.54
6	Total Dissolved Solids	mg/L	IS : 3025 (P-16)	540
7	Electronic Conductivity	µS/cm	IS : 3025 (P-14)	840
General Parameter				
8	Total Solid	mg/L	IS : 3025 (P-15)	541
9	Total Suspended Solid	mg/L	IS : 3025 (P-17)	BDL(DL-1.0)
10	Volatile & Fixed Solid	mg/L	IS : 3025 (P-18)	310
11	Acidity	mg/L	IS : 3025 (P-22)	BDL(DL-1.0)
12	Total Hardness (as CaCO ₃)	mg/L	IS : 3025 (P-21)	284
13	Calcium (as Ca)	mg/L	IS : 3025 (P-40)	76
14	Magnesium (as Mg)	mg/L	APHA 3500 (mg)	22.8
15	Total Alkalinity (as CaCO ₃)	mg/L	IS : 3025 (P-23)	160

EP-036/21/04/25-1



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TEST REPORT No. NCL/EP-036/21/04/25/A

DATE OF REPORT : 25/04/2025

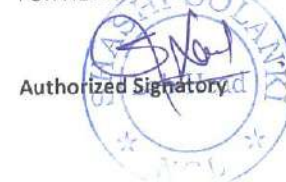
S.No.	Parameters	Unit	Test Method	Result
16	Chloride (as Cl)	mg/L	IS : 3025 (P-32)	176
17	Nitrate (as NO3)	mg/L	IS : 3025 (P-34)	1.2
18	Nitrite (as NO2)	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)
19	Sulphate (as SO4)	mg/L	IS : 3025 (P-24)	BDL(DL-2.0)
20	Sulphide (as H2S)	mg/L	IS : 3025 (P-29)	BDL(DL-0.01)
21	Fluoride (as F)	mg/L	APHA 24th Edition 4500 (F-D)	BDL(DL-0.1)
22	Free Residual Chlorine (as Cl2)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)
23	Chloramines (as Cl2)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)
24	Phenolic Compound (as C6H5OH)	mg/L	IS : 3025 (P-43)	BDL(DL-0.0005)
25	Anionic Surfactant (as MBAS)	mg/L	IS : 3025 (P-68)	BDL(DL-0.1)
26	Hexavalent Chromium (as Cr+6)	mg/L	IS : 3025 (P-52)	BDL(DL-0.01)
27	Mineral Oil	mg/L	IS : 3025 (P-39)	BDL(DL-0.1)
28	Silica (as SiO2)	mg/L	APHA-4500-SiO2 (C)	BDL(DL-1.0)
29	Phosphate (as P)	mg/L	APHA-4500 (P, D)	BDL(DL-0.05)
30	Sodium (as Na)	mg/L	APHA-3500 Na (B)	BDL(DL-10.0)
31	Potassium (as K)	mg/L	APHA-3500 K (B)	BDL(DL-1.0)
32	Ammonical Nitrogen	mg/L	IS : 3025 (P-34)	BDL(DL-0.1)
33	Total Kjeldhal Nitrogen	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)
34	Dissolved Oxygen	mg/L	IS : 3025 (P-38)	6.4
Heavy Metals Parameter				
35	Iron (as Fe)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
36	Zinc (as Zn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)
37	Boron (as B)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
38	Nickel (as Ni)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
39	Manganese (as Mn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
40	Lead (as Pb)	mg/L	IS : 3025 (P-65)	BDL(DL-0.005)
41	Copper (as Cu)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
42	Chromium (as Cr)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)
43	Aluminium (as Al)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)

EP-036/21/04/25-2



Arvind Choudhary
Checked by Section Incharge Analyst

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Page No.: 3 of 3

TEST REPORT No. NCL/EP-036/21/04/25/A

DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result
Microbiological Parameter				
44	E.Coli	MPN/100ml	IS : 1622	<2
45	Total Coliform	MPN/100ml	IS : 1622	<2

End of Report

Remarks : BDL=Below Detection Limit.

EP-036/21/04/25-3



ISHA TYAGI
Checked by Analyst



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TEST REPORT

Page No.: 1 of 3

TEST REPORT No. NCL/EP-035/21/04/25/A		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dasheria Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAILS

Sample Name	: Surface Water	Analysis End Date	: 25/04/2025
Analysis Start Date	: 21/04/2025	Sample ID No.	: NCL/EP-035/21/04/25
Date of Sampling	: 19/04/2025	Sample Receipt Date	: 21/04/2025
Time of Sampling	: 01:10 PM	Environmental Condition	: 27±2°C
Sampling Done By	: NCL		
Sample Description	: Surface Water		
Sampling Location	: Aligarh Drain (U/S)	Sample Quantity	: 10+2 Ltr
Sampling Protocol	: IS:17614 (P-1)	Packing	: PVC CANE
Packing Condition	: Sealed		

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result
Organoleptic and Physical Parameter				
1	Colour	Hazen	IS : 3025 (P-4)	BDL(DL-1.0)
2	Odour	--	IS : 3025 (P-5)	Agreeable
3	Turbidity	NTU	IS : 3025 (P-10)	BDL(DL-1.0)
4	Temperature	°C	IS : 3025 (P-9)	26.2
5	pH Value	--	IS : 3025 (P-11)	7.64
6	Total Dissolved Solids	mg/L	IS : 3025 (P-16)	590
7	Electronic Conductivity	µS/cm	IS : 3025 (P-14)	918
General Parameter				
8	Total Solid	mg/L	IS : 3025 (P-15)	591
9	Total Suspended Solid	mg/L	IS : 3025 (P-17)	BDL(DL-1.0)
10	Volatile & Fixed Solid	mg/L	IS : 3025 (P-18)	290
11	Acidity	mg/L	IS : 3025 (P-22)	BDL(DL-1.0)
12	Total Hardness (as CaCO ₃)	mg/L	IS : 3025 (P-21)	300
13	Calcium (as Ca)	mg/L	IS : 3025 (P-40)	84
14	Magnesium (as Mg)	mg/L	APHA 3500 (mg)	21.8
15	Total Alkalinity (as CaCO ₃)	mg/L	IS : 3025 (P-23)	160

EP-035/21/04/25-1



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Page No.: 2 of 3

TEST REPORT No. NCL/EP-035/21/04/25/A

DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result
16	Chloride (as Cl)	mg/L	IS : 3025 (P-32)	192
17	Nitrate (as NO3)	mg/L	IS : 3025 (P-34)	1.4
18	Nitrite (as NO2)	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)
19	Sulphate (as SO4)	mg/L	IS : 3025 (P-24)	BDL(DL-2.0)
20	Sulphide (as H2S)	mg/L	IS : 3025 (P-29)	BDL(DL-0.01)
21	Fluoride (as F)	mg/L	APHA 24th Edition 4500 (F-D)	BDL(DL-0.1)
22	Free Residual Chlorine (as Cl2)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)
23	Chloramines (as Cl2)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)
24	Phenolic Compound (as C6H5OH)	mg/L	IS : 3025 (P-43)	BDL(DL-0.0005)
25	Anionic Surfactant (as MBAS)	mg/L	IS : 3025 (P-68)	BDL(DL-0.1)
26	Hexavalent Chromium (as Cr+6)	mg/L	IS : 3025 (P-52)	BDL(DL-0.01)
27	Mineral Oil	mg/L	IS : 3025 (P-39)	BDL(DL-0.1)
28	Silica (as SiO2)	mg/L	APHA-4500 SiO2 (C)	BDL(DL-1.0)
29	Phosphate (as P)	mg/L	APHA-4500 (P, D)	BDL(DL-0.05)
30	Sodium (as Na)	mg/L	APHA-3500 Na (B)	BDL(DL-10.0)
31	Potassium (as K)	mg/L	APHA-3500 K (B)	BDL(DL-1.0)
32	Ammonical Nitrogen	mg/L	IS : 3025 (P-34)	BDL(DL-0.1)
33	Total Kjeldhal Nitrogen	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)
34	Dissolved Oxygen	mg/L	IS : 3025 (P-38)	6.5
Heavy Metals Parameter				
35	Iron (as Fe)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
36	Zinc (as Zn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)
37	Boron (as B)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
38	Nickel (as Ni)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
39	Manganese (as Mn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
40	Lead (as Pb)	mg/L	IS : 3025 (P-65)	BDL(DL-0.005)
41	Copper (as Cu)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
42	Chromium (as Cr)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)
43	Aluminium (as Al)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)

EP-035/21/04/25-2




 Checked by **Arvind Choudhary**
 Section Incharge **Analyst**

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TEST REPORT No. NCL/EP-035/21/04/25/A DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result
Microbiological Parameter				
44	E.Coli	MPN/100ml	IS : 1622	<2
45	Total Coliform	MPN/100ml	IS : 1622	8

End of Report

Remarks : BDL=Below Detection Limit.

EP-035/21/04/25-3



ISHA TYAGI
Isha
Checked by

BHAVNA SHARMA
FOR NEWCON CONSULTANTS & LABORATORIES
Micro
Authorized Signatory
NCL

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TEST REPORT

Page No.: 1 of 3

TEST REPORT No. NCL/EP-034/21/04/25/A		DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dashera Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131	

SAMPLING DETAILS

Sample Name	: Surface Water	Analysis End Date	: 25/04/2025
Analysis Start Date	: 21/04/2025	Sample ID No.	: NCL/EP-034/21/04/25
Date of Sampling	: 19/04/2025	Sample Receipt Date	: 21/04/2025
Time of Sampling	: 01:00 PM	Environmental Condition	: 27±2°C
Sampling Done By	: NCL		
Sample Description	: Surface Water		
Sampling Location	: Reservoir	Sample Quantity	: 10+2 Ltr
Sampling Protocol	: IS:17614 (P-1)	Packing	: PVC CANE
Packing Condition	: Sealed		

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result
Organoleptic and Physical Parameter				
1	Colour	Hazen	IS : 3025 (P-4)	BDL(DL-1.0)
2	Odour	--	IS : 3025 (P-5)	Agreeable
3	Turbidity	NTU	IS : 3025 (P-10)	BDL(DL-1.0)
4	Temperature	°C	IS : 3025 (P-9)	26.1
5	pH Value	--	IS : 3025 (P-11)	7.39
6	Total Dissolved Solids	mg/L	IS : 3025 (P-16)	630
7	Electronic Conductivity	µS/cm	IS : 3025 (P-14)	978
General Parameter				
8	Total Solid	mg/L	IS : 3025 (P-15)	631
9	Total Suspended Solid	mg/L	IS : 3025 (P-17)	BDL(DL-1.0)
10	Volatile & Fixed Solid	mg/L	IS : 3025 (P-18)	336
11	Acidity	mg/L	IS : 3025 (P-22)	BDL(DL-1.0)
12	Total Hardness (as CaCO ₃)	mg/L	IS : 3025 (P-21)	320
13	Calcium (as Ca)	mg/L	IS : 3025 (P-40)	80
14	Magnesium (as Mg)	mg/L	APHA 3500 (mg)	29.2
15	Total Alkalinity (as CaCO ₃)	mg/L	IS : 3025 (P-23)	165

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TEST REPORT No. NCL/EP-034/21/04/25/A DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result
16	Chloride (as Cl)	mg/L	IS : 3025 (P-32)	184
17	Nitrate (as NO3)	mg/L	IS : 3025 (P-34)	1.3
18	Nitrite (as NO2)	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)
19	Sulphate (as SO4)	mg/L	IS : 3025 (P-24)	BDL(DL-2.0)
20	Sulphide (as H2S)	mg/L	IS : 3025 (P-29)	BDL(DL-0.01)
21	Fluoride (as F)	mg/L	APHA 24th Edition 4500 (F-D)	BDL(DL-0.1)
22	Free Residual Chlorine (as Cl2)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)
23	Chloramines (as Cl2)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)
24	Phenolic Compound (as C6H5OH)	mg/L	IS : 3025 (P-43)	BDL(DL-0.0005)
25	Anionic Surfactant (as MBAS)	mg/L	IS : 3025 (P-68)	BDL(DL-0.1)
26	Hexavalent Chromium (as Cr+6)	mg/L	IS : 3025 (P-52)	BDL(DL-0.01)
27	Mineral Oil	mg/L	IS : 3025 (P-39)	BDL(DL-0.1)
28	Silica (as SiO2)	mg/L	APHA-4500-SiO2 (C)	BDL(DL-1.0)
29	Phosphate (as P)	mg/L	APHA-4500 (P, D)	BDL(DL-0.05)
30	Sodium (as Na)	mg/L	APHA-3500 Na (B)	BDL(DL-10.0)
31	Potassium (as K)	mg/L	APHA-3500 K (B)	BDL(DL-1.0)
32	Ammonical Nitrogen	mg/L	IS : 3025 (P-34)	BDL(DL-0.1)
33	Total Kjeldhal Nitrogen	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)
34	Dissolved Oxygen	mg/L	IS : 3025 (P-38)	6.3
Heavy Metals Parameter				
35	Iron (as Fe)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
36	Zinc (as Zn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)
37	Boron (as B)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
38	Nickel (as Ni)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
39	Manganese (as Mn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
40	Lead (as Pb)	mg/L	IS : 3025 (P-65)	BDL(DL-0.005)
41	Copper (as Cu)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)
42	Chromium (as Cr)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)
43	Aluminium (as Al)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)

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TEST REPORT No. NCL/EP-034/21/04/25/A DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result
Microbiological Parameter				
44	E.Coli	MPN/100ml	IS : 1622	<2
45	Total Coliform	MPN/100ml	IS : 1622	11

End of Report

Remarks : BDL=Below Detection Limit.

EP-034/21/04/25-3



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Checked by Analyst

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Micro
Authorized Signatory
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TEST REPORT

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TEST REPORT No. NCL/EP-032/21/04/25/A		ULR No.:TC126212500006792F	DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dasheria Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131		

SAMPLING DETAILS

Sample Name	: Ground Water	Analysis End Date	: 25/04/2025
Analysis Start Date	: 21/04/2025	Sample ID No.	: NCL/EP-032/21/04/25
Date of Sampling	: 19/04/2025	Sample Receipt Date	: 21/04/2025
Time of Sampling	: 12:50 PM	Environmental Condition	: 27±2°C
Sampling Done By	: NCL		
Sample Description	: Ground Water		
Sampling Location	: Hand Pump (Rukanpur)	Sample Quantity	: 10+2 Ltr
Sampling Protocol	: IS:17614 (P-1)	Packing	: PVC CANE
Packing Condition	: Sealed		

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
Organoleptic and Physical Parameter						
1	Colour	Hazen	IS : 3025 (P-4)	BDL(DL-1.0)	5.0	15
2	Odour	--	IS : 3025 (P-5)	Agreeable	Agreeable	Agreeable
3	Taste	--	IS : 3025 (P-7 & 8)	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	IS : 3025 (P-10)	BDL(DL-1.0)	1.0	5.0
5	Temperature	°C	IS : 3025 (P-9)	26.4	Not Specified	Not Specified
6	pH Value	--	IS : 3025 (P-11)	7.48	6.5-8.5	No Relaxation
7	Total Dissolved Solids	mg/L	IS : 3025 (P-16)	492	500	2000
8	Electronic Conductivity	µS/cm	IS : 3025 (P-14)	912	Not Specified	Not Specified
General Parameter						
9	Total Solids	mg/L	IS : 3025 (P-15)	493	Not Specified	Not Specified
10	Total Suspended Solid	mg/L	IS : 3025 (P-17)	BDL(DL-1.0)	Not Specified	Not Specified
11	Volatile & Fixed Solid	mg/L	IS : 3025 (P-18)	310	Not Specified	Not Specified
12	Acidity	mg/L	IS : 3025 (P-22)	12	Not Specified	Not Specified
13	Total Hardness (as CaCO3)	mg/L	IS : 3025 (P-21)	230	200	600

EP-032/21/04/25-1

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TEST REPORT No. NCL/EP-032/21/04/25/A ULR No.:TC126212500006792F DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
14	Calcium (as Ca)	mg/L	IS : 3025 (P-40)	64	75	200
15	Magnesium (as Mg)	mg/L	APHA 3500 (mg)	17	30	100
16	Total Alkalinity (as CaCO3)	mg/L	IS : 3025 (P-23)	126	200	600
17	Chemical Oxygen Demand (COD)	mg/L	IS : 3025 (P-58)	BDL(DL-2.0)	Not Specified	Not Specified
18	Biochemical Oxygen Demand (BOD)	mg/L	IS : 3025 (P-44)	BDL(DL-2.0)	Not Specified	Not Specified
19	Chloride (as Cl)	mg/L	IS : 3025 (P-32)	82	250	1000
20	Nitrate (as NO3)	mg/L	IS : 3025 (P-34)	BDL(DL-0.2)	45	No Relaxation
21	Nitrite (as NO2)	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)	Not Specified	Not Specified
22	Sulphate (as SO4)	mg/L	IS : 3025 (P-24)	BDL(DL-2.0)	200	400
23	Sulphide (as H2S)	mg/L	IS : 3025 (P-29)	BDL(DL-0.01)	0.05	No Relaxation
24	Fluoride (as F)	mg/L	APHA 24th Edition 4500 (F-D)	BDL(DL-0.1)	1.0	1.5
25	Free Residual Chlorine (as Cl2)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)	0.2	1.0
26	Chloramines (as Cl2)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)	4.0	No Relaxation
27	Phenolic Compound (as C6H5OH)	mg/L	IS : 3025 (P-43)	BDL(DL-0.0005)	0.001	0.002
28	Anionic Surfactant (as MBAS)	mg/L	IS : 3025 (P-68)	BDL(DL-0.1)	0.2	1.0
29	Hexavalent Chromium (as Cr+6)	mg/L	IS : 3025 (P-52)	BDL(DL-0.01)	Not Specified	Not Specified
30	Mineral Oil	mg/L	IS : 3025 (P-39)	BDL(DL-0.1)	0.5	No Relaxation
31	Silica (as SiO2)	mg/L	APHA -4500-SiO2 (C)	BDL(DL-0.05)	Not Specified	Not Specified
32	Phosphate (as P)	mg/L	APHA-4500 (P, D)	BDL(DL-0.05)	Not Specified	Not Specified
33	Sodium (as Na)	mg/L	APHA-3500 Na (B)	BDL(DL-10.0)	Not Specified	Not Specified
34	Potassium (as K)	mg/L	APHA-3500 K (B)	BDL(DL-1.0)	Not Specified	Not Specified
35	Ammonical Nitrogen	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)	Not Specified	Not Specified
36	Total Kjeldhal Nitrogen	mg/L	IS : 3025 (P-34)	BDL(DL-0.1)	Not Specified	Not Specified
37	Dissolved Oxygen (as DO)	mg/L	IS : 3025 (P-38)	6.0	Not Specified	Not Specified
Heavy Metals Parameter						
38	Iron (as Fe)	mg/L	IS : 3025 (P-65)	BDL(DL-0.00005)	1.0	No Relaxation

EP-032/21/04/25-2



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TEST REPORT No. NCL/EP-032/21/04/25/A ULR No.:TC126212500006792F DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
39	Zinc (as Zn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	5.0	15.0
40	Boron (as B)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.5	1.0
41	Nickel (as Ni)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.02	No Relaxation
42	Manganese (as Mn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.1	0.3
43	Lead (as Pb)	mg/L	IS : 3025 (P-65)	BDL(DL-0.005)	0.01	No Relaxation
44	Copper (as Cu)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.05	1.5
45	Chromium (as Cr)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.05	No Relaxation
46	Aluminium (as Al)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.03	0.2
47	Uranium (as U)	mg/L	NCL/STP/GEN/033	BDL(DL-0.003)	0.03	No Relaxation
Microbiological Parameter						
48	E.Coli	MPN/100ml	IS : 1622	<2	Not Specified	Not Specified
49	Total Coliform	MPN/100ml	IS : 1622	<2	Not Specified	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

EP-032/21/04/25-3



Arvind Choudhary
Sr. Analyst
Checked by



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Authorized Signatory

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TEST REPORT

Page No.: 1 of 3

TEST REPORT No. NCL/EP-033/21/04/25/A		ULR No.:TC126212500006793F	DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dashera Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131		

SAMPLING DETAILS

Sample Name	: Ground Water	Analysis End Date	: 25/04/2025
Analysis Start Date	: 21/04/2025	Sample ID No.	: NCL/EP-033/21/04/25
Date of Sampling	: 19/04/2025	Sample Receipt Date	: 21/04/2025
Time of Sampling	: 12:50 PM	Environmental Condition	: 27±2°C
Sampling Done By	: NCL		
Sample Description	: Ground Water		
Sampling Location	: Hand Pump (Dushera)		
Sampling Protocol	: IS:17614 (P-1)	Sample Quantity	: 10+2 Ltr
Packing Condition	: Sealed	Packing	: PVC CANE

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
Organoleptic and Physical Parameter						
1	Colour	Hazen	IS : 3025 (P-4)	BDL(DL-1.0)	5.0	15
2	Odour	--	IS : 3025 (P-5)	Agreeable	Agreeable	Agreeable
3	Taste	--	IS : 3025 (P-7 & 8)	NA	Agreeable	Agreeable
4	Turbidity	NTU	IS : 3025 (P-10)	BDL(DL-1.0)	1.0	5.0
5	Temperature	°C	IS : 3025 (P-9)	26.3	Not Specified	Not Specified
6	pH Value	--	IS : 3025 (P-11)	6.68	6.5-8.5	No Relaxation
7	Total Dissolved Solids	mg/L	IS : 3025 (P-16)	560	500	2000
8	Electronic Conductivity	µS/cm	IS : 3025 (P-14)	744	Not Specified	Not Specified
General Parameter						
9	Total Solids	mg/L	IS : 3025 (P-15)	561	Not Specified	Not Specified
10	Total Suspended Solid	mg/L	IS : 3025 (P-17)	BDL(DL-1.0)	Not Specified	Not Specified
11	Volatile & Fixed Solid	mg/L	IS : 3025 (P-18)	248	Not Specified	Not Specified
12	Acidity	mg/L	IS : 3025 (P-22)	8	Not Specified	Not Specified
13	Total Hardness (as CaCO ₃)	mg/L	IS : 3025 (P-21)	270	200	600

EP-033/21/04/25-1

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TC-12621

Page No.: 2 of 3

TEST REPORT No. NCL/EP-033/21/04/25/A

ULR No.:TC126212500006793F

DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
14	Calcium (as Ca)	mg/L	IS : 3025 (P-40)	68	75	200
15	Magnesium (as Mg)	mg/L	APHA 3500 (mg)	24.3	30	100
16	Total Alkalinity (as CaCO3)	mg/L	IS : 3025 (P-23)	98	200	600
17	Chemical Oxygen Demand (COD)	mg/L	IS : 3025 (P-58)	BDL(DL-2.0)	Not Specified	Not Specified
18	Biochemical Oxygen Demand (BOD)	mg/L	IS : 3025 (P-44)	BDL(DL-2.0)	Not Specified	Not Specified
19	Chloride (as Cl)	mg/L	IS : 3025 (P-32)	112	250	1000
20	Nitrate (as NO3)	mg/L	IS : 3025 (P-34)	BDL(DL-0.2)	45	No Relaxation
21	Nitrite (as NO2)	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)	Not Specified	Not Specified
22	Sulphate (as SO4)	mg/L	IS : 3025 (P-24)	BDL(DL-2.0)	200	400
23	Sulphide (as H2S)	mg/L	IS : 3025 (P-29)	BDL(DL-0.01)	0.05	No Relaxation
24	Fluoride (as F)	mg/L	APHA 24th Edition 4500 (F-D)	BDL(DL-0.1)	1.0	1.5
25	Free Residual Chlorine (as Cl2)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)	0.2	1.0
26	Chloramines (as Cl2)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)	4.0	No Relaxation
27	Phenolic Compound (as C6H5OH)	mg/L	IS : 3025 (P-43)	BDL(DL-0.0005)	0.001	0.002
28	Anionic Surfactant (as MBAS)	mg/L	IS : 3025 (P-68)	BDL(DL-0.1)	0.2	1.0
29	Hexavalent Chromium (as Cr+6)	mg/L	IS : 3025 (P-52)	BDL(DL-0.01)	Not Specified	Not Specified
30	Mineral Oil	mg/L	IS : 3025 (P-39)	BDL(DL-0.1)	0.5	No Relaxation
31	Silica (as SiO2)	mg/L	APHA-4500-SiO2 (C)	BDL(DL-0.05)	Not Specified	Not Specified
32	Phosphate (as P)	mg/L	APHA-4500 (P, D)	BDL(DL-0.05)	Not Specified	Not Specified
33	Sodium (as Na)	mg/L	APHA-3500 Na (B)	BDL(DL-10.0)	Not Specified	Not Specified
34	Potassium (as K)	mg/L	APHA-3500 K (B)	BDL(DL-1.0)	Not Specified	Not Specified
35	Ammonical Nitrogen	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)	Not Specified	Not Specified
36	Total Kjeldhal Nitrogen	mg/L	IS : 3025 (P-34)	BDL(DL-0.1)	Not Specified	Not Specified
37	Dissolved Oxygen	mg/L	IS : 3025 (P-38)	6.3	Not Specified	Not Specified
Heavy Metals Parameter						
38	Iron (as Fe)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	1.0	No Relaxation
39	Zinc (as Zn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	5.0	15.0

EP-033/21/04/25-2



SONU
Checked by
Soni in charge

Arvind Aboudhary
Sr Analyst

FOR NEWCON CONSULTANTS & LABORATORIES



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TEST REPORT No. NCL/EP-033/21/04/25/A

ULR No.:TC1262125000006793F

DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
40	Boron (as B)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.5	1.0
41	Nickel (as Ni)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.02	No Relaxation
42	Manganese (as Mn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.1	0.3
43	Lead (as Pb)	mg/L	IS : 3025 (P-65)	BDL(DL-0.005)	0.01	No Relaxation
44	Copper (as Cu)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.05	1.5
45	Chromium (as Cr)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.05	No Relaxation
46	Aluminium (as Al)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.03	0.2
47	Uranium (as U)	mg/L	NCL/STP/GEN/033	BDL(DL-0.003)	0.03	No Relaxation
Microbiological Parameter						
48	E.Coli	MPN/100ml	IS : 1622	<2	Not Specified	Not Specified
49	Total Coliform	MPN/100ml	IS : 1622	9	Not Specified	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

NA - Not Analyzed (Due to presence of Micro Organism in Received Sample)

EP-033/21/04/25-3



Arvind Choudhary
Sr. Analyst
Checked by



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TEST REPORT

TEST REPORT No. NCL/EP-031/21/04/25/A		ULR No.:TC126212500006790F	DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dashera Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131		

SAMPLING DETAILS

Sample Name	: Drinking Water	Analysis End Date	: 25/04/2025
Analysis Start Date	: 21/04/2025	Sample ID No.	: NCL/EP-031/21/04/25
Date of Sampling	: 19/04/2025	Sample Receipt Date	: 21/04/2025
Time of Sampling	: 12:40 PM	Environmental Condition	: 27±2°C
Sampling Done By	: NCL		
Sample Description	: Drinking Water		
Sampling Location	: Transit Camp (Inside Township)	Sample Quantity	: 10+2 Ltr
Sampling Protocol	: IS:17614 (P-1)	Packing	: PVC CANE
Packing Condition	: Sealed		

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	Specification as IS : 10500, Amd. 2018	
					Desirable Limit	Permissible Limit
Organoleptic and Physical Parameter						
1	Colour	Hazen	IS:3025 (P-4)	BDL(DL-1.0)	5.0	15.0
2	Odour	-	IS:3025 (P-5)	Agreeable	Agreeable	Agreeable
3	Taste	-	IS:3025 (P-7 & 8)	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	IS:3025 (P-10)	BDL(DL-1.0)	1.0	5.0
5	pH Value	-	IS:3025 (P-11)	7.42	6.5-8.5	No Relaxation
6	Total Dissolved Solids	mg/L	IS:3025 (P-16)	290	500	2000
7	Electronic Conductivity	µS/cm	IS:3025 (P-14)	335	Not Specified	Not Specified
General Parameter						
8	Total Hardness (as CaCO ₃)	mg/L	IS:3025 (P-21)	130	200	600
9	Calcium (as Ca)	mg/L	IS:3025 (P-40)	32	75	200
10	Magnesium (as Mg)	mg/L	APHA 3500 (mg)	12.2	30	100
11	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025 (P-23)	84	200	600
12	Chloride (as Cl)	mg/L	IS:3025 (P-32)	65	250	1000
13	Nitrate (as NO ₃)	mg/L	IS:3025 (P-34)	BDL(DL-0.2)	45	No Relaxation

EP-031/21/04/25-1



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Seal Charge



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TEST REPORT No. NCL/EP-031/21/04/25/A ULR No.:TC126212500006790F DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification as IS : 10500, Amd. 2018	
					Desirable Limit	Permissible Limit
14	Sulphate (as SO4)	mg/L	IS:3025 (P-24)	BDL(DL-2.0)	200	400
15	Sulphide (as H2S)	mg/L	IS:3025 (P-29)	BDL(DL-0.02)	0.05	No Relaxation
16	Fluoride (as F)	mg/L	APHA 24th Edition 4500 (F-D)	BDL(DL-0.1)	1.0	1.5
17	Free Residual Chlorine (as Cl2)	mg/L	IS:3025 (P-26)	BDL(DL-0.1)	0.2	1.0
18	Chloramines (as Cl2)	mg/L	IS:3025 (P-26)	BDL(DL-0.1)	4.0	No Relaxation
19	Phenolic Compound (as C6H5OH)	mg/L	IS:3025 (P-43)	BDL(DL-0.0005)	0.001	0.002
20	Anionic Detergents (as MBAS)	mg/L	IS:13428	BDL(DL-0.1)	0.2	1.0
21	Ammonia (as total Ammonia)	mg/L	IS:3025 (P-34)	BDL(DL-0.2)	0.5	No Relaxation
22	Chromium (Cr+6)	mg/L	APHA-3500 Cr	BDL(DL-0.01)	Not Specified	Not Specified
23	Mineral Oil	mg/L	IS:3025(P-39)	BDL(DL-0.1)	0.5	No Relaxation
24	Silica (as SiO2)	mg/L	APHA 4500 SiO2 (C)	BDL(DL-0.05)	Not Specified	Not Specified
25	Phosphate (as P)	mg/L	APHA 4500 (P,D)	BDL(DL-0.05)	Not Specified	Not Specified
26	Sodium (as Na)	mg/L	APHA 3500Na (B)	BDL(DL-10.0)	Not Specified	Not Specified
27	Potassium (as K)	mg/L	APHA 3500 K (B)	BDL(DL-1.0)	Not Specified	Not Specified
Heavy Metals Parameter						
28	Iron (as Fe)	mg/L	IS:3025 (P-65)	BDL(DL-0.1)	1.0	No Relaxation
29	Zinc (a Zn)	mg/L	IS:3025 (P-65)	BDL(DL-1.0)	5.0	15.0
30	Boron (as B)	mg/L	IS:3025 (P-65)	BDL(DL-0.01)	0.5	1.0
31	Nickel (as Ni)	mg/L	IS:3025 (P-65)	BDL(DL-0.01)	0.02	No Relaxation
32	Manganese (as Mn)	mg/L	IS:3025 (P-65)	BDL(DL-0.01)	0.1	0.3
33	Lead (as Pb)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
34	Selenium (as Se)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
35	Arsenic (as As)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
36	Cadmium (as Cd)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.003	No Relaxation
37	Copper (as Cu)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.05	1.5
38	Molybdenum (as Mo)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.07	No Relaxation
39	Chromium (as Cr)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.05	No Relaxation

EP-031/21/04/25-2

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Checked by *Sonu* Section Incharge
Analyst *Arvind Choudhary*



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TEST REPORT No. NCL/EP-031/21/04/25/A

ULR No.:TC1262125000006790F

DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification as IS : 10500, Amd. 2018	
					Desirable Limit	Permissible Limit
40	Aluminium (as Al)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.03	0.2
41	Silver (as Ag)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.1	No Relaxation
42	Barium (as Ba)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.7	No Relaxation
43	Mercury (as Hg)	mg/L	IS:3025 (P-65)	BDL(DL-0.0005)	0.001	No Relaxation
44	Uranium (as U)	mg/L	IS:3025 (P-65)	BDL(DL-0.003)	0.03	No Relaxation
Pesticides Residue						
45	Polynuclear Aromatic Hydrocarbon(PAH)	mg/L	APHA 6440	BDL(DL-0.00005)	0.0001	No Relaxation
46	Alachlor	µg/L	USEPA 525.2	BDL(DL-0.005)	20.0	No Relaxation
47	Atrazine	µg/L	USEPA 525.2	BDL(DL-0.005)	2.0	No Relaxation
48	Aldrin	µg/L	USEPA 508	BDL(DL-0.005)	0.03	No Relaxation
49	Dieldrin	µg/L	USEPA 508	BDL(DL-0.005)	0.03	No Relaxation
50	Alpha HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.01	No Relaxation
51	Beta HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.04	No Relaxation
52	Butachlor	µg/L	USEPA 525.2	BDL(DL-0.005)	125.0	No Relaxation
53	Chlorpyrifos	µg/L	USEPA 525.2	BDL(DL-0.005)	30.0	No Relaxation
54	Delta HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.04	No Relaxation
55	2,4 dichlorophenoxyacetic acid	µg/L	USEPA 515.1	BDL(DL-0.001)	30.0	No Relaxation
56	4,4-DDE	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
57	4,4-DDD	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
58	4,4-DDT	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
59	2,4-DDD	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
60	2,4-DDT	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
61	2,4-DDE	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
62	Endosulphan-I	µg/L	USEPA 508	BDL(DL-0.005)	0.4	No Relaxation
63	Endosulphan-II	µg/L	USEPA 508	BDL(DL-0.005)	0.4	No Relaxation
64	Endosulphan Sulfate	µg/L	USEPA 508	BDL(DL-0.005)	0.4	No Relaxation

EP-031/21/04/25-3



Arvind Choudhary
Checked by Analyst

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TEST REPORT No. NCL/EP-031/21/04/25/A ULR No.:TC1262125000006790F DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification as IS : 10500, Amd. 2018	
					Desirable Limit	Permissible Limit
65	Ethion	µg/L	USEPA 1657 A	BDL(DL-0.005)	3.0	No Relaxation
66	Gamma HCH (Lindane)	µg/L	USEPA 508	BDL(DL-0.005)	2.0	No Relaxation
67	Isoproturon	µg/L	USEPA 532	BDL(DL-0.001)	9.0	No Relaxation
68	Malathion	µg/L	USEPA 8141 A	BDL(DL-0.005)	190.0	No Relaxation
69	Methyl Parathion	µg/L	USEPA 8141 A	BDL(DL-0.005)	0.3	No Relaxation
70	Monocrotophos	µg/L	USEPA 8141 A	BDL(DL-0.005)	1.0	No Relaxation
71	Phorate	µg/L	USEPA 8141 A	BDL(DL-0.005)	2.0	No Relaxation
Microbiological Parameter						
72	E. Coli	cfu/100 ml	IS:15185	Absent	Shall not be detectable in any 100 ml sample	Not Specified
73	Total Coliform	cfu/100 ml	IS:15185	Absent	Shall not be detectable in any 100 ml sample	Not Specified

End of Report

Remarks : BDL = Below Detection Limit.

EP-031/21/04/25-4



Arvind Choudhary
Checked by Sr. Analyst



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TEST REPORT

Page No.: 1 of 4

TEST REPORT No. NCL/EP-030/21/04/25/A		ULR No.:TC126212500006791F	DATE OF REPORT : 25/04/2025
Name and Address of Customer	M/S THDC INDIA LIMITED Khurja Super Thermal Power Plant Project Village & Post - Dasheria Kherli, Tehsil - Khurja, District - Bulandshahr, U.P-203131		

SAMPLING DETAILS

Sample Name	: Drinking Water	Analysis End Date	: 25/04/2025
Analysis Start Date	: 21/04/2025	Sample ID No.	: NCL/EP-030/21/04/25
Date of Sampling	: 19/04/2025	Sample Receipt Date	: 21/04/2025
Time of Sampling	: 12:30 PM	Environmental Condition	: 27±2°C
Sampling Done By	: NCL		
Sample Description	: Drinking Water		
Sampling Location	: Service Building (Inside Project)	Sample Quantity	: 10+2 Ltr
Sampling Protocol	: IS:17614 (P-1)	Packing	: PVC CANE
Packing Condition	: Sealed		

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	Specification as IS : 10500, Amd. 2018	
					Desirable Limit	Permissible Limit
Organoleptic and Physical Parameter						
1	Colour	Hazen	IS:3025 (P-4)	BDL(DL-1.0)	5.0	15.0
2	Odour	-	IS:3025 (P-5)	Agreeable	Agreeable	Agreeable
3	Taste	-	IS:3025 (P-7 & 8)	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	IS:3025 (P-10)	BDL(DL-1.0)	1.0	5.0
5	pH Value	--	IS:3025 (P-11)	7.28	6.5-8.5	No Relaxation
6	Total Dissolved Solids	mg/L	IS:3025 (P-16)	240	500	2000
7	Electronic Conductivity	µS/cm	IS:3025 (P-14)	442	Not Specified	Not Specified
General Parameter						
8	Total Hardness (as CaCO ₃)	mg/L	IS:3025 (P-21)	108	200	600
9	Calcium (as Ca)	mg/L	IS:3025 (P-40)	24	75	200
10	Magnesium (as Mg)	mg/L	APHA 3500 (mg)	11.7	30	100
11	Total Alkalinity (as CaCO ₃)	mg/L	IS:3025 (P-23)	65	200	600
12	Chloride (as Cl)	mg/L	IS:3025 (P-32)	52	250	1000
13	Nitrate (as NO ₃)	mg/L	IS:3025 (P-34)	BDL(DL-0.2)	45	No Relaxation

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SONU
Sector Incharge
Checked by



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TEST REPORT No. NCL/EP-030/21/04/25/A ULR No.:TC126212500006791F DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification as IS : 10500, Amd. 2018	
					Desirable Limit	Permissible Limit
14	Sulphate (as SO4)	mg/L	IS:3025 (P-24)	BDL(DL-2.0)	200	400
15	Sulphide (as H2S)	mg/L	IS:3025 (P-29)	BDL(DL-0.02)	0.05	No Relaxation
16	Fluoride (as F)	mg/L	APHA 24th Edition 4500 (F-D)	BDL(DL-0.1)	1.0	1.5
17	Free Residual Chlorine (as Cl2)	mg/L	IS:3025 (P-26)	BDL(DL-0.1)	0.2	1.0
18	Chloramines (as Cl2)	mg/L	IS:3025 (P-26)	BDL(DL-0.2)	4.0	No Relaxation
19	Phenolic Compound (as C6H5OH)	mg/L	IS:3025 (P-43)	BDL(DL-0.0005)	0.001	0.002
20	Anionic Detergents (as MBAS)	mg/L	IS:13428	BDL(DL-0.1)	0.2	1.0
21	Ammonia (as total Ammonia)	mg/L	IS:3025 (P-34)	BDL(DL-0.2)	0.5	No Relaxation
22	Chromium (Cr+6)	mg/L	APHA-3500 Cr	BDL(DL-0.01)	Not Specified	Not Specified
23	Mineral Oil	mg/L	IS:3025(P-39)	BDL(DL-0.1)	0.5	No Relaxation
24	Silica (as SiO2)	mg/L	APHA 4500 SiO2 (C)	BDL(DL-0.05)	Not Specified	Not Specified
25	Phosphate (as P)	mg/L	APHA 4500 (P,D)	BDL(DL-0.05)	Not Specified	Not Specified
26	Sodium (as Na)	mg/L	APHA 3500Na (B)	BDL(DL-10.0)	Not Specified	Not Specified
27	Potassium (as K)	mg/L	APHA 3500 K (B)	BDL(DL-1.0)	Not Specified	Not Specified
Heavy Metals Parameter						
28	Iron (as Fe)	mg/L	IS:3025 (P-65)	BDL(DL-0.1)	1.0	No Relaxation
29	Zinc (a Zn)	mg/L	IS:3025 (P-65)	BDL(DL-1.0)	5.0	15.0
30	Boron (as B)	mg/L	IS:3025 (P-65)	BDL(DL-0.01)	0.5	1.0
31	Nickel (as Ni)	mg/L	IS:3025 (P-65)	BDL(DL-0.01)	0.02	No Relaxation
32	Manganese (as Mn)	mg/L	IS:3025 (P-65)	BDL(DL-0.01)	0.1	0.3
33	Lead (as Pb)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
34	Selenium (as Se)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
35	Arsenic (as As)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
36	Cadmium (as Cd)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.003	No Relaxation
37	Copper (as Cu)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.05	1.5
38	Molybdenum (as Mo)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.07	No Relaxation
39	Chromium (as Cr)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.05	No Relaxation

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Checked by **SONU**
Arvind Choudhary
Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory

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TEST REPORT No. NCL/EP-030/21/04/25/A

ULR No.:TC1262125000006791F

DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification as IS : 10500, Amd. 2018	
					Desirable Limit	Permissible Limit
40	Aluminium (as Al)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.03	0.2
41	Silver (as Ag)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.1	No Relaxation
42	Barium (as Ba)	mg/L	IS:3025 (P-65)	BDL(DL-0.001)	0.7	No Relaxation
43	Mercury (as Hg)	mg/L	IS:3025 (P-65)	BDL(DL-0.0005)	0.001	No Relaxation
44	Uranium (as U)	mg/L	IS:3025 (P-65)	BDL(DL-0.003)	0.03	No Relaxation
Pesticides Residue						
45	Polynuclear Aromatic Hydrocarbon(PAH)	mg/L	APHA 6440	BDL(DL-0.00005)	0.0001	No Relaxation
46	Alachlor	µg/L	USEPA 525.2	BDL(DL-0.005)	20.0	No Relaxation
47	Atrazine	µg/L	USEPA 525.2	BDL(DL-0.005)	2.0	No Relaxation
48	Aldrin	µg/L	USEPA 508	BDL(DL-0.005)	0.03	No Relaxation
49	Dieldrin	µg/L	USEPA 508	BDL(DL-0.005)	0.03	No Relaxation
50	Alpha HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.01	No Relaxation
51	Beta HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.04	No Relaxation
52	Butachlor	µg/L	USEPA 525.2	BDL(DL-0.005)	125.0	No Relaxation
53	Chlorpyrifos	µg/L	USEPA 525.2	BDL(DL-0.005)	30.0	No Relaxation
54	Delta HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.04	No Relaxation
55	2,4 dichlorophenoxyacetic acid	µg/L	USEPA 515.1	BDL(DL-0.001)	30.0	No Relaxation
56	4,4-DDE	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
57	4,4-DDD	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
58	4,4-DDT	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
59	2,4-DDD	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
60	2,4-DDT	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
61	2,4-DDE	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
62	Endosulphan-I	µg/L	USEPA 508	BDL(DL-0.005)	0.4	No Relaxation
63	Endosulphan-II	µg/L	USEPA 508	BDL(DL-0.005)	0.4	No Relaxation
64	Endosulphan Sulfate	µg/L	USEPA 508	BDL(DL-0.005)	0.4	No Relaxation

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TEST REPORT No. NCL/EP-030/21/04/25/A

ULR No.:TC126212500006791F

DATE OF REPORT : 25/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification as IS : 10500, Amd. 2018	
					Desirable Limit	Permissible Limit
65.	Ethion	µg/L	USEPA 1657 A	BDL(DL-0.005)	3.0	No Relaxation
66	Gamma HCH (Lindane)	µg/L	USEPA 508	BDL(DL-0.005)	2.0	No Relaxation
67	Isoproturon	µg/L	USEPA 532	BDL(DL-0.001)	9.0	No Relaxation
68	Malathion	µg/L	USEPA 8141 A	BDL(DL-0.005)	190.0	No Relaxation
69	Methyl Parathion	µg/L	USEPA 8141 A	BDL(DL-0.005)	0.3	No Relaxation
70	Monocrotophos	µg/L	USEPA 8141 A	BDL(DL-0.005)	1.0	No Relaxation
71	Phorate	µg/L	USEPA 8141 A	BDL(DL-0.005)	2.0	No Relaxation
Microbiological Parameter						
72	E. Coli	cfu/100 ml	IS:15185	Absent	Shall not be detectable in any 100 ml sample	Not Specified
73	Total Coliform	cfu/100 ml	IS:15185	Absent	Shall not be detectable in any 100 ml sample	Not Specified

End of Report

Remarks : BDL = Below Detection Limit.

EP-030/21/04/25-4



Arvind Choudhary
Checked by Analyst



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