



## Power

Ref: APL/Raipur/TPP/EMD/MoEFCC/EC/328/11/24  
Date: 27.11.2024

To,

**The Additional Principal Chief Conservator of Forest  
Ministry of Environment, Forests & Climate Change,  
Integrated Regional Office, Aranya Bhawan, North Block  
Sector 19, Naya Raipur, Atal Nagar,  
Chhattisgarh 492 002**

**Sub: Submission of Half Yearly Environment Clearance (EC) Compliance Status Report for 2x685 MW Raipur Thermal Power Plant at village Raikheda, Gaitara and Chicholi in Tilda Block of Raipur District, Chhattisgarh.**

**Ref: Environment clearance vide letter no. J-13012/62/2008-IA.II (T) dated 09.05.2011 and its subsequent amendment vide letter dated 10.06.2015, 13.06.2013, 18.11.2014, 04.02.2015**

Dear Sir,

With reference to the above, please find enclosed herewith Six-Monthly Environment Clearance (EC) compliance status report along with environmental monitoring reports as Ambient Air, Water Quality, Noise level, Soil quality, CAAQM data, Met. data, Greenbelt development, Fly ash data & CSR progress report etc. for the period of **April'2024 to September'2024** in soft copy (e-mail).

This is for your kind information and record please.

Thanking You,  
Yours faithfully,  
for **Adani Power Limited, Raipur**

  
**(R N Shukla)**  
**Authorized Signatory**

**Encl.:** As above

**CC: Member Secretary,  
Central Pollution Control Board,  
Parivesh Bhavan, East Arjun Nagar,  
New Delhi – 110 032  
Regional Officer  
Chhattisgarh Environment Conservation Board,  
Commercial Complex,  
Chhattisgarh Housing Board Colony,  
Kabir Nagar, Raipur – 492 099, Chhattisgarh**

**Member Secretary,  
Chhattisgarh Environment Conservation Board,  
Prayavas Bhavan, North Block, Sector-19,  
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# SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE (EC)

FOR

**1370 MW (2x685MW)  
Raipur Thermal Power Plant**

**At**

**Village Raikheda, Gaitara and Chicholi,  
Tilda Block, Raipur District, Chhattisgarh**

*Submitted to:*

**Integrated Regional Office, Raipur  
Ministry of Environment, Forest & Climate Change,  
Central Pollution Control Board, New Delhi &  
Chhattisgarh Environment Conservation Board, Naya Raipur**



*Submitted by:*

**Environment Management Department**

**Adani Power Limited,**  
Village Raikheda, Block Tilda,  
District Raipur, Chhattisgarh

**Period: April'2024 to September'2024**

**Adani Power Limited, Raipur**  
1370 (2x685) MW Coal Based Thermal Power Plant

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**Adani Power Limited, Raipur**  
1370 (2x685) MW Coal Based Thermal Power Plant

## **INTRODUCTION**

### **INTRODUCTION**

**Adani Power Limited, Raipur** has established Coal based Thermal Power Plant of capacity 2x685 MW at Village Raikheda, Gaitara and Chicholi in Tilda block of Raipur District, Chhattisgarh.

Environmental Clearance has been granted by Hon'ble MoEFCC to M/s GMR Energy Ltd. vide letter No. J-13012/62/2008-IA. II (T), dated 09/05/2011. It was subsequently amended vide letter dated 13.06.2013, 18.11.2014, 04.02.2015 and 09.12.2015.

The company has been taken over by Adani Power Ltd. (APL) & name of the company has been changed from M/s GMR Chhattisgarh Energy Limited to M/s Raipur Energen Limited (REL) with effect from 20th August 2019 as 100% subsidiary of M/s Adani Power Limited. Raipur TPP has also obtained transferred EC vide letter No. J-13012/62/2008-IA. II (T), dated 05.11.2019.

Environment Clearance is transferred from Raipur Energen Limited to **Adani Power Limited** vide letter no. J.13012/62/2008-IA. II (T), dated 24.04.2023. Under the Hon'ble NCLT vide its order dated 08.02.2023 sanctioning the scheme of amalgamation of Raipur Energen Limited with **Adani Power Limited** Subsequently.

Further, MoEFCC has granted Environmental Clearance (EC) vide file no. J-13012/62/2008-IA. II(T), EC Identification No. EC24A0601CG5815357N dated: 01.11.2024 for expansion of 1600 (2x800) MW state-of-the-art technology based on Ultra Super Critical Technology within the existing plant premise.

Raipur Thermal Power Plant has a well-established Environmental Laboratory with equipped monitoring equipment, which is being used for monitoring environmental parameters.

Raipur Thermal Power Plant has engaged NABL Accredited Lab consultants for their service of sampling, monitoring and analysis of Environmental parameters as per statutory guidelines.

The company has adopted three peripheral Villages and executing most of the CSR works which is supported by the Adani Foundation, in those villages in the field of their livelihood, infrastructure development, cleanliness, community health and education.

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**Adani Power Limited Raipur**  
1370 MW (2x685 MW) Coal Based Thermal Power Plant

**Compliance Status of Environmental Clearance**

vide letter No. J-13012/62/2008-IA. II (T), dated: 09<sup>th</sup> May 2011 and amendment dated:  
13.06.2013, 18.11.2014, 04.02.2015 & 09.12.2015, 05.11.2019 & 24.04.2023  
EC Transfer from Raipur Energen Ltd. to Adani Power Ltd. 24.04.2023

Sl. No.	Conditions of EC	Compliance Status
<b>A.</b>	<b>Specific Conditions</b>	
(i)	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Complied. The Vision document of Adani Power Limited was already submitted to MoEF&CC, Regional Office (WCZ), Nagpur vide our office letter Ref: REL/MoEF&CC/EC/2020F/ May/29, dated: 29th May 2020. The Environment Clearance has been transferred from Raipur Energen Limited to <b>Adani Power Limited</b> vide letter no. J.13012/62/2008-IA. II(T), dated April 24, 2023. Under the Hon'ble NCLT vide its order dated 08.02.2023 has sanctioned the scheme of amalgamation of Raipur Energen Limited with Adani Power Limited.
(ii)	In case source of fuel supply now proposed to be run on imported coal from South Africa for running the power plant is proposed to be changed to domestic coal at a later stage, the project proponent shall apply for such a change in environmental clearance along with necessary documents as required under EIA notification, 2006 (and its amendments). In such a case the necessity for holding public hearing again or otherwise will be determined by the Ministry in consultation with the Expert Appraisal Committee (Thermal Power).	Being complied. TPP is using 100% domestic coal sourced from tolling linkage and open market. Talabira-1 Mine is not under operation as Mining Plan was expired and the revised mining plan is due for approval.
(iii)	Provision for installation of FGD shall be provided for future use.	Space provision for FGD have been provided as per the guidelines of CPCB vide letter No. B-33014/07/2017/IPC-II/TPP/15848, dated 11.12.2017. As per MoEFCC's Notification dated 5th September 2022, Raipur Thermal Power Plant (TPP) has been classified under Category "C" Non-retiring TPPs and the timelines for compliance of SO <sub>2</sub> emission is up to December 2026. Accordingly, the work is under progress for compliance as per CPCB direction.
(iv)	Stack of 275 m height shall be installed and provided with continuous online monitoring equipment's for SO <sub>x</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> & PM <sub>10</sub> . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis.	Complied. The Stack height is 275 meters. An online continuous emission monitoring system (CEMS) has been installed to monitor PM, SO <sub>2</sub> , and NO <sub>x</sub> . Additionally, mercury (Hg) emissions are monitored by an authorized laboratory recognized by MoEFCC. The exit gas velocity is maintained at over 22 meters per second.

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Sl. No.	Conditions of EC	Compliance Status
		The Environment Monitoring report is enclosed herewith as <b>Annexure - I</b> .
(v)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed followed by installation of Bag Filter and it shall be ensured that particulate emission does not exceed 50 mg/Nm <sup>3</sup> .	Complied. High efficiency Electrostatic Precipitators (ESP) has been considered to meet revised emission standard of <50 mg/ Nm <sup>3</sup> for PM. The monitoring report for stack emission is enclosed in <b>Annexure - I</b> .
(vi)	Adequate dust extraction system such as cyclones, bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Complied. Dust extraction system has been installed in the coal crusher, AHP, and coal bunkers. Dust suppression system through the dry fog method has been implemented at coal conveyor transfer points and water sprinklers has been installed in Coal Yard to suppress coal dust.
(vii)	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to MOEF for suitable amendments to environmental clearance condition wherever necessary.	Being Complied. As per the Office Memorandum, MoEFCC dated 11.11.2020 and its amendment dated: 06.12.2023 all the Thermal Power Plants (including Captive Power Plants) having Environmental Clearance can change the Coal Source (from imported to domestic, domestic to domestic, and domestic to imported) including Lignite, directly through e-auctions/short term. Linkage/long term linkage/other linkage options of Ministry of Coal or any organization recognized for allotting Coal linkages, without seeking the amendment in Environmental Clearance and hence not the EC amendment is envisaged. Raipur TPP is Pit-head Thermal Power Plant. Kindly refer to the amendment made by MoEFCC vide Notification No.: S.O. 1561(E), dated: 21st May 2020 in the Environment (Protection) Rules, 1986, in rule 3, for sub-rule (8) "Use of coal by Thermal Power Plants, without stipulations as regards ash content or distance, shall be permitted" subject to following conditions: 1) Setting Up Technology Solution for emission norms: (i) Compliance of specified emission norms for Particulate Matter, as per extant notifications and instructions of Central Pollution Control Board, issued from time to time. 2) Management of Ash Ponds: (i) The thermal powers plants shall comply with conditions, as notified in the Fly Ash notification issued from time to time, without being entitled to additional capacity of fly ash pond (for existing power generation capacity) on ground of switching from washed coal to unwashed coal.

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Sl. No.	Conditions of EC	Compliance Status
		With reference to above notification, further EC amendment is not required.
(viii)	Transport of coal to the plant site shall be strictly by rail. The project proponent shall therefore immediately take up the matter with the Railways. Status of implementation shall be submitted to the Regional Office of the Ministry from time to time.	Complied. The transportation being done through rail. Avenue plantation along the roads within the plant premises has already been completed. The compliance status of the conditions mentioned in the Environmental Clearance, along with its periodic amendments, is also made available to the public on the website of holding Company. <a href="https://www.adanipower.com/Downloads">https://www.adanipower.com/Downloads</a> as well as in Parivesh Portal of MoEFCC.
(ix)	Existing de-generated water bodies (if any) within 5.0 Km of the site shall be regenerated at the project proponent's expenses in consultation with the state govt.	Complied. Raipur TPP has regenerated 06 water bodies in nearby villages including 2 numbers deepening and beautifying two ponds, all carried out in consultation with the state government.
(x)	The proponent shall sponsor a detailed study regarding water availability in Mahanadi River for all competing sources such as drinking, agriculture, industrial, minimum flow of water in the river during the lean season etc. through institutions like IIT, Delhi/IIT Roorkee. The draft terms of reference shall be submitted within three months which shall be finalized by the Expert Appraisal Committee. The preliminary report on the above study shall be submitted within one year.	Complied Water allocation is from Mahanadi River and maintained by WRD, Chhattisgarh. APL, Raipur has no role in regulating the water flow downstream & distribution. However, a detailed Water Source Sustainability study has been conducted through reputed government institution IISWBM (Kolkata University) at Mahanadi River. Water allocation agreement for supply of water was signed on 21 <sup>st</sup> October 2020 between M/s Raipur Energen Ltd., (formerly known as M/s GMR Chhattisgarh Energy Ltd.) and Governor of Chhattisgarh, acting through Executive Engineer, Water Resources Department Raipur (CG). And further, no conditions stipulated by WRD to APL.
(xi)	The project proponent shall undertake proactive water harvesting measures and water storage for a larger period not less than 30 days storage shall be developed. The rainwater harvesting system shall be put in place before commissioning of the plant. Central Groundwater Authority. Board shall be consulted for finalization of appropriate rainwater harvesting technology design within a period of three months from the date of this clearance and details shall be furnished. The design of rainwater harvesting shall comprise of rainwater collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the Ministry within six months.	Complied. 02 Nos. of Rainwater harvesting ponds are established at APL, Raipur plant premises with total 60580 M <sup>3</sup> water holding capacity. Photographs of the same is enclosed as Annexure – II. Kindly Note that Detailed report of rainwater harvesting technique and approval letter of CGWA has been submitted to Regional Office MOEFCC and CECB vide our letter no. GMR/CTPP/MOEF/2012-13/269 dated 13/06/2012 by M/s GMR Chhattisgarh Energy Ltd). After the acquisition (August 2019) the copy of the same has not been handed over by GMR to APL. and No ground use for thermal power operation.
(xii)	Hydrogeology in and around the project area shall be reviewed annually from an institute. organization of repute to assess impact of surface water and ground regime (especially	Complied. The Hydrogeological study Report has been carried out and copy of the same already submitted with previous compliance report.

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Sl. No.	Conditions of EC	Compliance Status
	around ash dyke). In case and deterioration is observed specific mitigation measures shall be undertaken and reports. data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	
(xiii)	No ground water shall be extracted for use in operation of the power plant even in lean season.	Being Complied. There is no groundwater extraction for the operation of the power plant.
(xiv)	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.	Complied. No water bodies have been disturbed during construction activity & operational activity of the plant.
(xv)	Water requirement shall be optimized to around 32 MCM and shall accordingly adopt higher COC of at least not less than 5.0.	Complied. Water requirement is being restricted to 25 MCM. COC is being maintained more than 5.0.
(xvi)	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel. Rivers (as applicable) even in lean season.	Complied. Raipur TPP has revisited and optimized water requirements by reusing and recycling system, the water allotment has been reduced from 37 to 25 MCM per annum by Water Resource Department, Government of Chhattisgarh.
(xvii)	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project	Complied. Six nos. piezometers constructed in the periphery of the ash pond for ground water monitoring. Seasonal monitoring of ground water level and quality is being done and monitoring data is being submitted to the MOEFCC, CPCB & CECB regularly. The ground water analysis data is attached in <b>Annexure I.</b>
(xviii)	Monitoring surface water quality in the region shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Complied. Seasonal monitoring of Surface water is being done. The monitored data is being submitted to MoEFCC, CPCB & CECB regularly. The surface water analysis data is attached in <b>Annexure I.</b>
(xix)	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied. Excavated Soil being utilized within the project site to the extent possible.
(xx)	The project proponent shall undertake measures and ensure that no fugitive fly ash emissions take place at any point of time.	Complied. All the preventive measures have been ensured to restrict fugitive emission from fly ash.

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Sl. No.	Conditions of EC	Compliance Status
		List of Pollution Control Equipment/Devices installed to restrict fugitive as emission within prescribed limits is enclosed as <b>Annexure III</b> .
(xxi)	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.	Complied. Fly ash is being supplied to nearest cement industries and brick manufacturer. Fly Ash generation and utilization Status is attached as <b>Annexure IV</b> .
(xxii)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Being Complied. - Fly ash is being collected in dry form and unutilized fly ash is being disposed in dedicated ash storage ponds. - As per MoEFCC Office Memorandum dated 28 <sup>th</sup> August 2019, utilization of fly ash in low lying areas has been permitted and the existing condition in Environmental Clearance may stand replaced, accordingly organization has started utilization of fly ash in low lying areas and land reclamation. - Mercury and heavy metals are being monitored in bottom ash. No effluent has emanated from ash pond.
(xxiii)	Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	Complied. Ash ponds is constructed with LDPE/HDPE & in the way that no leachate takes place any point of time.
(xxiv)	For disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) shall be done after obtaining due permission from DGMS and after ensuring that the bottom and sides of the mined-out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity.	Noted and Agreed.
(xxv)	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 75 m width shall be raised. Tree density shall not less than 2500 per ha with survival rate not less than 80 %.	Being Complied. Plantation/Greenbelt development is being developed as per guidelines & in consultation with forest department for local species. 3 <sup>rd</sup> party Green Belt Evaluation/Audit is being carried out. Copy of Greenbelt evaluation report is enclosed as <b>Annexure V</b> .
(xxvi)	At least three nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre, primary school etc shall be developed in co-ordination with the district administration.	Being complied. The Company undertakes various CSR activities as per framework of CSR Rules under the Companies Act. Community services in three nearby villages namely Raikheda, Chicholi & Gaitera is conducted with focus and Sontara, Gaurkheda and Murra village area also covered. The outreach is also expanded to other nearby



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Sl. No.	Conditions of EC	Compliance Status
		villages namely Khamariya, Konari, Tulsi, Tarashiv, Bartori, Chatod and Samoda. The thematic area of work in villages is improving quality of education, access of health care and sanitation, empowerment and livelihood thought SHGs, individual income generation & community vocational training centre and community development. CSR Progress Report is enclosed as <b>Annexure VI</b> .
(xxvii)	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Being complied. The Company is undertaking CSR activities within 10 km radius area with focus on project affected and Railway siding villages namely Sontara, Gaurkheda, Khamariya, Konari Murra, Tulsi, Tarashiv, Bartori, Chatod located on western and northern boundary of the proposed plant. The development work in these villages is implemented in planned and time bound manner.
(xxviii)	A time bound implementation of the CSR shall be formulated within six months and submitted to the Ministry. While identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people shall be undertaken. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programme for possible self-employment and jobs shall be imparted to identify villagers free of cost.	Being Complied. The Company is undertaking CSR activities within 10 km radius area with focus on 16 Villages including Railway siding villages namely Sontara, Gaurkheda, Khamariya, Konari Murra, Tulsi, Tarashiv, Bartori, Chatod located on western and northern boundary of the proposed plant. The development work in these villages is implemented in planned and time bound manner. CSR activities progress report is submitted along with Six Monthly EC compliance report to MoEFCC, CPCB & SPCB on regular basis. CSR Progress report with details is enclosed as <b>Annexure VI</b> .
(xxix)	An amount of Rs 33.16 Crores shall be earmarked as one-time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 6.63 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six months along with road map for implementation.	Being Complied. The one-time capital cost of Rs 33.16 Crores was earmarked for the construction phase under the GMR, the same was implemented during the period by previous organization. GMR has not handed over the records to APL regarding the detail of the expenditures. After the acquisition, APL has given utmost priority to strengthen the CSR activities that are already being implemented. The Company is undertaking CSR activities after the acquisition within 10 km radius area with

## Adani Power Limited Raipur

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Sl. No.	Conditions of EC	Compliance Status
		focus on 16 Villages including Railway siding villages namely Sontara, Gaurkheda, Khamariya, Konari Murra, Tulsi, Tarashiv, Bartori, Chatod located on western and northern boundary of the proposed plant. The development work in these villages is implemented in a planned and time bound manner. CSR Progress Report is enclosed as <b>Annexure VI</b>
(xxx)	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time	Complied. The Social audit report has already been submitted along with EC Compliance report to concerned authorities. Social Audit & Social Impact Evaluation Report of APL, Raipur for Year 2024 is already submitted to MoEFCC.
<b>General Conditions;</b>		
(i)	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.	Complied. The treated effluents, which meet the prescribed standards, are being re-circulated and reused within the plant. The layout of the plant has been designed to ensure that effluents and storm water do not mix. The ETP analysis report is included as <b>Annexure I.</b>
(ii)	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt plantation.	Complied. Sewage Treatment Plant is installed and commissioned within premises to ensure quality of sewerage.
(iii)	Adequate safety measures shall be provided in the plant area to check minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the ministry.	Complied. Drawings & other details are already submitted to the MoEFCC, Delhi as well as Regional Office of MoEFCC.
(iv)	Storage facilities for auxiliary liquid fuel such as LDO and/ 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.	Complied Approval for the storage facilities of auxiliary liquid fuels, such as LDO and HFO, has been secured from the Petroleum & Explosive Safety Organization (PESO) and the necessary documentation has been submitted. Sulphur content in the liquid fuel is well within 0.5%. Disaster Management Plan also is in place.
(v)	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied. Raipur Thermal Power Plant is fully operational. All temporary structures constructed during Project phase for facilitating contract workers are now removed.
(vi)	Noise levels emanating for turbines shall be so controlled such that the noise in the work zone	Complied.

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Sl. No.	Conditions of EC	Compliance Status
	shall be limited to 85 dBA from the source. For people working in the high noise area, requisite personal protective equipment like earplugs/earmuffs 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.	Engineering controls for noise, such as acoustic enclosures and silencers, have been installed in the turbine. In addition to these engineering solutions, personal protective equipment (PPE) like earplugs and earmuffs are also provided to workers in high noise areas. Noise level monitoring report is enclosed as <b>Annexure I</b> .
(vii)	Regular monitoring of ambient air ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> & PM <sub>10</sub> and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Complied. We installed three nos. of stationary AAQMS station at periphery of the plant for Ambient air quality monitoring. Environment Monitoring Data as part of the six-monthly compliance is being submitted to MoEFCC and is also made available at company's website. <a href="https://www.adanipower.com/Downloads">https://www.adanipower.com/Downloads</a> The ambient air quality monitoring report is enclosed <b>Annexure I</b> .
(viii)	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 completion of the project.	Complied during the construction phase.
(ix)	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project. one of which shall be in the vernacular language of the Quality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance an copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>	Complied. Copies of the advertisement published in local daily Newspapers after obtaining EC and details of the same already submitted to ministry with previous compliance reports.
(x)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad, Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions, representations. If any, receive while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied. The environment clearance letter is available at website of Adani Power. <a href="https://www.adanipower.com/Downloads">https://www.adanipower.com/Downloads</a>



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1370 MW (2x685 MW) Coal Based Thermal Power Plant

Sl. No.	Conditions of EC	Compliance Status
(xi)	An Environmental Cell comprising of at least one expert in environmental science, engineering, occupational health and social scientist, shall be created at the project site itself and shall be headed by an officer of appropriate superiority and qualification it shall be ensured that the Head the Cell shall directly report to the head of the organization, and he shall be held responsible for implementation of environmental regulations and social impact improvement, mitigation measures.	Complied. We have well-established Environmental Cell at project level and corporate level comprising of experts in Chemistry, environmental science / engineering and are operational.
(xii)	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 display at a convenient location near the main gate of the company in the public domain.	Complied. Six monthly compliance status reports are regularly submitted to MoEFCC, CPCB & CECB. The same is sent by email also. Last six-monthly compliance report for the period of Oct'23- March'24 submitted vide letter no. APL/REL/EMD/MoEFCC/EC/288/05/24 dated 24.05.2024 Display board has been installed at main gate of TPP to display criteria pollutant levels namely SPM, RSPM (PM2.5 & PM10), SO2, NOX (ambient levels as well as stack emissions). Environment compliance report uploaded in company website. <a href="http://www.adanipower.com/Downloads">www.adanipower.com/Downloads</a>
(xiii)	The environment statement for each financial year ending 31 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 at the Ministry.	Complied. The Environmental Statement Report for the period FY: 2023-24 in prescribed format (Form V) has been submitted to CECB, Raipur vide Letter No. APL/Raipur/Env/CECB/409/24 dated 06.09.2024 enclosed as <b>Annexure VII</b> .  The same is available on the company website along with the compliance of environmental clearance conditions.
(xiv)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	Being Complied. Six monthly compliances on the Environmental Clearance granted by MoEFCC is being submitted to MoEFCC, CPCB & CECB regularly. Compliance status updated on company's website. <a href="http://www.adanipower.com/Downloads">www.adanipower.com/Downloads</a> Compliance report for the period of October 2023 to March'2024 has been already submitted to your good office vide letter no. Ref: APL/REL/EMD/ MoEFCC/EC/288/05/24, Dated: 24.05.2024.

## Adani Power Limited Raipur

1370 MW (2x685 MW) Coal Based Thermal Power Plant

Sl. No.	Conditions of EC	Compliance Status
(xv)	Regional Office of the Ministry of Environment, forest and climate change 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 the 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.	Being Complied. EIA & EMP report with all necessary document & information are already submitted to RO, MoEFCC and CECB.
(xvi)	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.	Complied. Separate funds have been already allocated for environmental protection.
(xvii)	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 date of start of land development work a commissioning of plant.	Complied. Financial Closure granted on 10 <sup>th</sup> Dec'10. The Project development started after receiving Consent to establish dated 13.06.2011.
(xviii)	Full cooperation shall be extended to the Scientists/Officers from the Ministry Regional Office of the Ministry at Bangalore/CPCB/SPCB who would be monitoring the compliance of environmental status.	Noted. Full co-operation will be extended.
<b>Conditions of Amended EC dated 13.06.2013</b>		
(v)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed, and it shall be ensured that particulate emission does not exceed 50 mg/Nm <sup>3</sup> "	Complied. High efficiency Electrostatic Precipitators (ESP) has been considered to meet revised emission standard of <50 mg/ Nm <sup>3</sup> for PM. The monitoring report for stack emission is enclosed as <b>Annexure I</b> .
(xxxii)	The GCV of the imported coal from South Africa shall not be less than 4911 Kcal/kg and the ash and sulphur contents shall not exceed the limits stated under: Ash contents: 33.7% Sulphur contents: 0.7%	Being Complied. Presently no coal is being imported and only domestic coal is being used. As per the Office Memorandum, MoEFCC dated; 11.11.2020, all the Thermal Power Plants (including Captive Power Plants) having Environmental Clearance can change the Coal Source (from imported to domestic, domestic to domestic, and domestic to imported) including Lignite, directly through

## Adani Power Limited Raipur

1370 MW (2x685 MW) Coal Based Thermal Power Plant

Sl. No.	Conditions of EC	Compliance Status
		e-auctions/short term linkage/long term linkage/other linkage options of Ministry of Coal or any organization recognized for allotting coal linkages, without seeking the amendment in Environmental Clearance.
(xxxii)	A long-term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	<p>Being Complied.</p> <p>Domestic Coal is being used for power generation for Raipur TPP. Periodical coal and ash analysis are being carried out through a reputed institute Board of Radiation and Isotope Technology (BRIT), Govt. of India for Radioactivity and heavy metal contents and reports is being submitted periodically with Six monthly EC compliance report to Ministry, CPCB and CECB. The measurement values of radio nuclei (U-238 and Th-232) are below the clearance level for radionuclides of natural origin in bulk solid materials.</p> <p>For provision of In-built mechanism continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash), the technology and monitoring instruments are not available with the suppliers in the country and is not feasible to monitor in this mechanism.</p> <p>The amendment for the same is requested along with 2x800 MW Environment Clearance as in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) is not feasible. Test Certificate is enclosed as Annexure VIII.</p>
(xxxiii)	Continuous monitoring for heavy metals in and around the ash pond area shall be carried out through reputed institutes like IIT, Kanpur and records/ data maintained.	<p>Complied.</p> <p>Quarterly monitoring of heavy metal and other physicochemical parameters in ground water around the ash pond area is being carried out regularly by 3<sup>rd</sup> party NABL approved Environmental Laboratory.</p> <p>The ground water analysis report is enclosed as <b>Annexure I.</b></p>
<b>Conditions of Amended EC Extension dated 18.11.2014</b>		
(i)	The coal transportation by road shall be through mechanically covered trucks to the extent feasible, else, shall be through tarpaulin covered trucks.	<p>Complied.</p> <p>The transportation through rail is being done.</p>
(ii)	Avenue plantation of 2/3 rows all along the road shall be carried out by the project proponent at its own expenses in consultation with the State Government Authorities.	<p>Complied.</p> <p>Avenue plantation all along the road has already been done inside the plant premises.</p>
(iii)	Periodic maintenance of the road shall be done by the project proponent at its own expenses and shall facilitate the traffic control on the road in consultation with the State Government Authorities.	<p>Complied.</p> <p>Coal transportation through rail has been started.</p> <p>Avenue plantation all along the road has already been done inside the plant premises.</p>

## Adani Power Limited Raipur

1370 MW (2x685 MW) Coal Based Thermal Power Plant

Sl. No.	Conditions of EC	Compliance Status
(iv)	The PP shall advertise in the newspaper and place on the website, the amendment issued by the Ministry for public information.	Complied. Advertisement has been published in local daily News Papers. & details submitted with previous compliance report. Original Env. Clearance along with its amendment from time to time has been kept in public domain at the website of holding company. <a href="https://www.adanipower.com/Downloads">https://www.adanipower.com/Downloads</a>
(xxxiv)	Harnessing solar power within the premises of the plant particularly at available rooftops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.	APL has installed about 10 KWH Solar Panel (generated power is used in Internal lighting and circulating water operation system). Implementation of solar harnessing power is being prioritized and service order has already been awarded to MSPVL group company which will be implemented by 2025. The previous organization did not implement because there is no Admin Building (suitable rooftop) in the Plant, only service building is available, and it was not feasible for the installation on service building. However, the APL has proposed to install along with expansion of 2x800 MW project. APL, A flagship company of the diversified Adani Group, has implemented more than 8000 MW of solar harnessing throughout the various regions of the country which is operational. Adani Group has also proposed 20,000 MW by the year 2030.
(xxxv)	Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.	Complied. 3 <sup>rd</sup> Party Green Belt Evaluation Report is enclosed as <b>Annexure V</b> .
(xxxvi)	The project proponent shall formulate a well-laid Corporate Environment Policy, 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.	Complied. Raipur TPP has implemented ISO 14001:2015 under Integrated Management System consist of Environment, Health & Safety, Quality and Energy Management Systems. We have formulated a corporate policy as per the requirement of Integrated Management System (IMS), Biodiversity Conservation Policy has already been framed and incorporated in existing IMS policy.
<b>Conditions of Amended EC Extension dated 04.02.2015</b>		
(i)	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.7 % and 34% respectively for at any given time. In case of variation of coal quality at any point of time, fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.	Being Complied. As per the Office Memorandum, MoEFCC dated 11.11.2020 and its amendment dated: 06.12.2023 all the Thermal Power Plants (including Captive Power Plants) having Environmental Clearance can change the Coal Source (from imported to domestic, domestic to domestic, and domestic to imported) including Lignite, directly through e-auctions/short term. Linkage/long term linkage/other linkage options of Ministry of Coal or any organization

## Adani Power Limited Raipur

1370 MW (2x685 MW) Coal Based Thermal Power Plant

Sl. No.	Conditions of EC	Compliance Status
		<p>recognized for allotting Coal linkages, without seeking the amendment in Environmental Clearance and hence not the EC amendment is envisaged.</p> <p>Raipur TPP is Pit-head Thermal Power Plant. Kindly refer to the amendment made by MoEFCC vide Notification No.: S.O. 1561(E), dated: 21st May 2020 in the Environment (Protection) Rules, 1986, in rule 3, for sub-rule (8) "Use of coal by Thermal Power Plants, without stipulations as regards ash content or distance, shall be permitted" subject to following conditions:</p> <p>1) Setting Up Technology Solution for emission norms:</p> <p>(i) Compliance of specified emission norms for Particulate Matter, as per extant notifications and instructions of Central Pollution Control Board, issued from time to time.</p> <p>2) Management of Ash Ponds:</p> <p>(i) The thermal powers plants shall comply with conditions, as notified in the Fly Ash notification issued from time to time, without being entitled to additional capacity of fly ash pond (for existing power generation capacity) on ground of switching from washed coal to unwashed Coal. With reference to above notification, further EC amendment is not required.</p>
(ii)	The PP shall advertise in the local newspapers and place on the website, the proposed amendment for public information.	<p>Complied.</p> <p>Advertisement has been published in local daily News Papers. &amp; details submitted with previous compliance report.</p>
<b>Conditions of Amended EC Extension dated 09.12.2015</b>		
(i)	The Sulphur and ash contents in the coal shall not exceed 0.7 % and 34% respectively. In case of variation of coal quality at any point of time, fresh reference shall be made to the Ministry for consideration.	Being Complied.
(ii)	The PP shall advertise in the local leading newspapers and place on the website, the proposed amendment of EC (after receipt from Ministry) for change in source of coal for public information.	Complied.
<b>EC amendment – MoEF&amp;CC notification vide letter number S.O. 1561 (E) dated 21<sup>st</sup> May, 2020</b>		
Sl. No.	Condition of Notification	Compliance Status
1)	<p>Setting up technology solution for emission norms</p> <p>i) Compliance of specified emission norms for Particulate Matter, as per extent notifications and instructions of Central Pollution Control Board, issued from time to time.</p>	<p>Noted.</p> <p>Technology solutions are being implemented for mitigating fugitive emissions of Particulate Matter.</p> <ul style="list-style-type: none"> <li>• The Dust Extraction (DE) type dust control system is provided for controlling fugitive</li> </ul>

## Adani Power Limited Raipur

1370 MW (2x685 MW) Coal Based Thermal Power Plant

Sl. No.	Conditions of EC	Compliance Status
	<p>ii) In case of washeries, middling and rejects to be utilized in FBC (Fluidised Bed Combustion) technology based thermal power plant. Washery to have linkage for middling and rejects in Fluidised Bed Combustion plants.</p>	<p>dust emissions from dust generation points of coal handling system.</p> <ul style="list-style-type: none"> <li>• Bag filter type dust extraction system with reversable pulse jet cleaning arrangement with fan, bag filter and stacks are provided at coal crusher house.</li> <li>• Different types of dust suppression system and water sprinkling arrangements are already installed at various probable fugitive dust generation points.</li> <li>• Plain water dust suppression for wagon tripler complex.</li> <li>• Plain water dust suppression for Coal stockpile.</li> <li>• Pre-wetting system for Wagon Tripler.</li> <li>• Dry Fog dust suppression for all Transfer points.</li> </ul>
2)	<p>Management of Ash Ponds</p> <p>i) The thermal power plants shall comply with conditions, as notified in the Fly Ash notifications issued from time to time, without being entitled to additional capacity of fly ash pond (for existing power generation capacity) on ground of switching from washed coal to unwashed coal.</p> <p>ii) Appropriate Technology solutions shall be applied to optimise water consumption for Ash management.</p> <p>iii) The segregation of ash may be done at the Electro- Static Precipitator stage, if required, based on site specific conditions, to ensure maximum utilisation of fly ash</p> <p>iv) Subject to 2(i) above, the thermal power plants to dispose fly ash in abandoned or working mines (to be facilitated by mine owner) with environmental safeguards.</p>	<p>Noted &amp; being complied.</p> <p>i. Fly ash is being supplied to nearest cement industries and brick manufacture. Fly Ash generation and utilization is regularly submitted to MoEFCC, CPCB, CEA &amp; CECB. Details is enclosed as <b>Annexure IV</b>.</p> <p>ii. Water requirement is being restricted to 25 MCM. Optimization of water has been incorporated as part of plant design and COC is being maintained more than 5.0</p> <p>iii. Noted &amp; being complied to meet 100% utilization of fly ash.</p> <p>iv. Noted &amp; will be complied as &amp; when fly ash is disposed in abandoned or working mines</p>

## Adani Power Limited Raipur

1370 MW (2x685 MW) Coal Based Thermal Power Plant

Sl. No.	Conditions of EC	Compliance Status
3)	<p>Transportation</p> <p>i) Coal transportation may be undertaken by covered Railway wagon (railway wagons covered by tarpaulin or other means) and/or covered conveyor beyond the mine area. However, till such time enabling Rail transport/conveyer beyond infrastructure is not available, road transportation may be undertaken in trucks, covered by tarpaulin or other means.</p> <p>ii) It shall be ensured by the thermal power plant that:</p> <p>a) Rail siding facility or conveyer facility is set up at or near the power plant, for transportation by rail or conveyor; and</p> <p>b) If transportation by rail or conveyer facility is not available, ensure that the coal is transported out from the Delivery Point of the respective mine in covered trucks (by tarpaulin or other means), or any mechanized closed trucks by roads.</p>	<p>i) Noted &amp; being complied. Rail siding facility has been made operational &amp; coal is being transported through covered rail wagons.</p> <p>ii)</p> <p>a) Rail siding facility has been made operational &amp; coal is being transported through covered rail wagons.</p> <p>b) Not applicable as Rail siding facility has been made operational &amp; coal is being transported through covered rail wagons.</p>

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# TEST REPORT



Sample Number : VTL/AA/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406150001/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 20/06/2024  
Period of Analysis : 15/06/2024-20/06/2024  
Receipt Date : 15/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Near Raw Water Area  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/01  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 11/06/2024 To 12/06/2024  
Time of Monitoring : 09:30 TO 09:30 Hrs.  
Ambient Temperature (°C) : Min, 28°C Max. 42°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	63.26	µg/m <sup>3</sup>	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	33.62	µg/m <sup>3</sup>	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	19.52	µg/m <sup>3</sup>	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.69	µg/m <sup>3</sup>	60
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m <sup>3</sup>	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m <sup>3</sup>	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m <sup>3</sup>	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m <sup>3</sup>	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m <sup>3</sup>	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m <sup>3</sup>	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m <sup>3</sup>	1



Checked by



RK Yadav  
Lab Incharge  
Authorized Signatory



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**Vibrant Techno Lab Pvt. Ltd.**

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TEST REPORT



**VIBRANT**

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Sample Number : VTL/AA/01

Report No. : VTL/A/2406150001/A

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*



*[Signature]*  
Checked by



RK Yadav  
Lab Incharge  
Authorized Signatory



Sample Number : VTL/AA/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406150001/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 20/06/2024  
Period of Analysis : 15/06/2024-20/06/2024  
Receipt Date : 15/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Near Raw Water Area  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/01  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 11/06/2024 To 12/06/2024  
Time of Monitoring : 09:30 TO 09:30 Hrs.  
Ambient Temperature (°C) : Min. 28°C Max. 42°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P-10)-1999, RA. 2019 (NDIR)	0.49	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P-4) :1999, RA.2014	232.0	µg/m <sup>3</sup>	-
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*

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# TEST REPORT



Sample Number : VTL/AA/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406150002/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 20/06/2024  
Period of Analysis : 15/06/2024-20/06/2024  
Receipt Date : 15/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

### General Information:-

Sampling Location : Near STP  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/02  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 11/06/2024 To 12/06/2024  
Time of Monitoring : 10:00 TO 10:00 Hrs.  
Ambient Temperature (°C) : Min. 28°C Max. 42°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	57.65	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	26.42	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	17.00	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.19	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA 2017	*BLQ (**LOQ 1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed., 1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed., 1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1



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Lab Incharge  
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TEST REPORT



**VIBRANT**

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Sample Number : VTL/AA/03

Report No. : VTL/A/2406150002/A

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable" VTL/AA/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406150002/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 20/06/2024  
Period of Analysis : 15/06/2024-20/06/2024  
Receipt Date : 15/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

### General Information:-

Sampling Location : Near STP  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/02  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 11/06/2024 To 12/06/2024  
Time of Monitoring : 10:00 TO 10:00 Hrs.  
Ambient Temperature (°C) : Min. 28°C Max. 42°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.39	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	199.45	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*

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Lab Incharge  
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### Vibrant Techno Lab Pvt. Ltd.

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Sample Number : VTL/AA/02  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406150003/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 20/06/2024  
Period of Analysis : 15/06/2024-20/06/2024  
Receipt Date : 15/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**  
Sampling Location : Near Old Project Doosan  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/03  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 06/06/2024 To 07/06/2024  
Time of Monitoring : 10:30 TO 10:30 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 41°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	65.96	µg/m <sup>3</sup>	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	30.91	µg/m <sup>3</sup>	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	18.45	µg/m <sup>3</sup>	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.62	µg/m <sup>3</sup>	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m <sup>3</sup>	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m <sup>3</sup>	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m <sup>3</sup>	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m <sup>3</sup>	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m <sup>3</sup>	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m <sup>3</sup>	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m <sup>3</sup>	1



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Sample Number : VTL/AA/02

Report No. : VTL/A/2406150003/A

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

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# TEST REPORT



**VIBRANT**

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Sample Number : VTL/AA/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406150003/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 20/06/2024  
Period of Analysis : 15/06/2024-20/06/2024  
Receipt Date : 15/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Near Old Project Doosan  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/03  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 06/06/2024 To 07/06/2024  
Time of Monitoring : 10:30 TO 10:30 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 41°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.53	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	245.01	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



Sample Number : VTL/AA/07

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406300001/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 06/07/2024  
Period of Analysis : 30/06/2024-06/07/2024  
Receipt Date : 30/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Village - Raikheda (Jitendra House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/04  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 24/06/2024 To 25/06/2024  
Time of Monitoring : 10:00 TO 10:00 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 32°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	52.13	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	22.19	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	8.46	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	6.85	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA 2017	*BLQ (**LOQ 1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1



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Sample Number : VTL/AA/07

TEST REPORT



Report No. : VTL/A/2406300001/A

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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\*BLO-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*



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**VIBRANT**

"Experience the unimaginable"  
Sample Number : VTL/AA/07

**TEST REPORT**

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406300001/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 06/07/2024  
Period of Analysis : 30/06/2024-06/07/2024  
Receipt Date : 30/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-  
Sampling Location : Village - Raikheda (Jitendra House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/04  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 24/06/2024 To 25/06/2024  
Time of Monitoring : 10:00 TO 10:00 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 32°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.43	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	158.00	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*

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# TEST REPORT



Sample Number: VTL/AA/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406300002/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 06/07/2024  
Period of Analysis : 30/06/2024-06/07/2024  
Receipt Date : 30/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Village - Gaitara (Amardas House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/04  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 25/06/2024 To 26/06/2024  
Time of Monitoring : 10:30 TO 10:30 Hrs.  
Ambient Temperature (°C) : Min. 28°C Max. 37°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	51.02	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	24.96	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	10.84	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	7.12	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA 2019	*BLQ (**LOQ 0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1



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Authorized Signatory







TEST REPORT



**VIBRANT**

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Sample Number : VTL/AA/08

Report No. : VTL/A/2406300002/A

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/AA/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406300002/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 06/07/2024  
Period of Analysis : 30/06/2024-06/07/2024  
Receipt Date : 30/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

### General Information:-

Sampling Location : Village - Gaitara (Amardas House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/04  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 25/06/2024 To 26/06/2024  
Time of Monitoring : 10:30 TO 10:30 Hrs.  
Ambient Temperature (°C) : Min. 28°C Max. 37°C  
Surrounding Activity : Human, Vehicular & Other Act  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.39	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	149.00	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*

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# TEST REPORT



## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/AA/06

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406300003/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 06/07/2024  
Period of Analysis : 30/06/2024-06/07/2024  
Receipt Date : 30/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

### General Information:-

Sampling Location : Village - Chicholi (Vikash Rajput House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/04  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 26/06/2024 To 27/06/2024  
Time of Monitoring : 11:45 TO 11:45 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	49.85	µg/m <sup>3</sup>	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	25.42	µg/m <sup>3</sup>	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	10.26	µg/m <sup>3</sup>	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	8.32	µg/m <sup>3</sup>	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m <sup>3</sup>	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m <sup>3</sup>	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m <sup>3</sup>	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m <sup>3</sup>	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m <sup>3</sup>	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m <sup>3</sup>	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m <sup>3</sup>	1



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### Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT



TC-11227

Sample Number: VTL/AA/06

Report No. : VTL/A/2406300003/A

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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\*BLO-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*



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Lab Incharge  
Authorized Signatory





Sample Number : VTL/AA/06  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406300003/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 06/07/2024  
Period of Analysis : 30/06/2024-06/07/2024  
Receipt Date : 30/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-  
Sampling Location : Village - Chicholi (Vikash Rajput House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/04  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 26/06/2024 To 27/06/2024  
Time of Monitoring : 11:45 TO 11:45 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P-10)-1999, RA. 2019 (NDIR)	0.39	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P-4) :1999, RA.2014	159.41	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

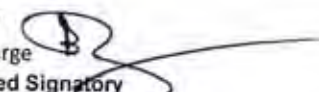
\*\*\*End of Report\*\*\*

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Sample Number : VTL/AA/08  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406300004/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 06/07/2024  
Period of Analysis : 30/06/2024-06/07/2024  
Receipt Date : 30/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**  
Sampling Location : Village - Mura (Near Petrol Pump)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/04  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 27/06/2024 To 28/06/2024  
Time of Monitoring : 13:30 TO 13:30 Hrs.  
Ambient Temperature (°C) : Min. 26°C Max. 34°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	55.23	µg/m <sup>3</sup>	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	23.01	µg/m <sup>3</sup>	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	12.41	µg/m <sup>3</sup>	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.56	µg/m <sup>3</sup>	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m <sup>3</sup>	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed., 1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m <sup>3</sup>	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m <sup>3</sup>	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m <sup>3</sup>	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed., 1988, Method No 302	*BLQ (**LOQ 0.15)	ng/m <sup>3</sup>	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m <sup>3</sup>	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m <sup>3</sup>	1



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TEST REPORT



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Sample Number : VTL/AA/08

Report No. : VTL/A/2406300004/A

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

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# TEST REPORT

## VIBRANT

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Sample Number : VTL/AA/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2406300004/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 06/07/2024  
Period of Analysis : 30/06/2024-06/07/2024  
Receipt Date : 30/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

### General Information:-

Sampling Location : Village - Mura (Near Petrol Pump)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/04  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 27/06/2024 To 28/06/2024  
Time of Monitoring : 13:30 TO 13:30 Hrs.  
Ambient Temperature (°C) : Min. 26°C Max. 34°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.41	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	146.22	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

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Sample Number:  
Name & Address of the  
Party:

VTL/FA/01  
M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur  
493225, Chhattisgarh

Sampling Description:

FLY ASH

TEST REPORT

Report No.: VTL/FA/2406280001/B  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Report Date: 06/07/2024  
Period of Analysis: 28/06/2024-06/07/2024  
Sampling Date: 26/06/2024

TEST RESULTS

S. No.	Parameter	Result
1.	Arsenic as As (mg/kg)	0.32
2.	Lead as Pb (mg/kg)	0.80
3.	Mercury as Hg (mg/kg)	0.41
4.	Chromium as Cr (mg/kg)	0.67

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Sample Number:  
Name & Address of the  
Party:

VTL/BA/01  
M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur  
493225, Chhattisgarh

Report No.: VTL/BA/2406280001/B  
Format No.: 7.8 F-01

Party Reference No.: NIL  
Report Date: 06/07/2024  
Period of Analysis: 28/06/2024-06/07/2024  
Sampling Date: 26/06/2024

Sampling Description: BOTTOM ASH

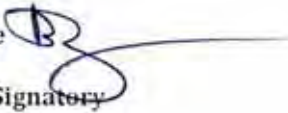
### TEST RESULTS

S. No.	Parameter	Result
1.	Arsenic as As (mg/kg)	0.28
2.	Lead as Pb (mg/kg)	5.30
3.	Mercury as Hg (mg/kg)	0.60
4.	Chromium as Cr (mg/kg)	3.16

  
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Sample Number:  
Name & Address of the  
Party:

VTL/PA/01  
M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur  
493225, Chhattisgarh

Sampling Description: POND ASH

TEST REPORT

Report No.: VTL/PA/2406280001/B  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Report Date: 06/07/2024  
Period of Analysis: 28/06/2024-06/07/2024  
Sampling Date: 26/06/2024

TEST RESULTS

S. No.	Parameter	Result
1.	Arsenic as As (mg/kg)	0.20
2.	Lead as Pb (mg/kg)	4.84
3.	Mercury as Hg (mg/kg)	0.39
4.	Chromium as Cr (mg/kg)	2.64

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Sample Number : VTL/S/01  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/S/2406230001/A  
Format No : 7.8 F-03  
Party Reference No : NIL  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024

Sample Description : Stack Emission Monitoring

**General Information:-**

Sampling Location : Stack Unit-I  
Sample Collected By : VTL Team  
Date of Sampling : 15/06/2024  
Sampling duration (Minutes) : 34 min. (11:40 to 12:14 hrs.)  
Stack attached to : ESP  
Make of stack : MS  
Diameter of stack(m) : 7.5 m  
Height of stack(m) : 275 m  
Instrument calibration status : Calibrated  
Meteorological Condition : Clear Sky  
Ambient Temperature - Ta (°C) : 38°C  
Temperature of Stack Gases - Ts (°C) : 133°C  
Velocity of Stack Gases (m/sec.) : 20.10  
Flow rate of PM (LPM) : 29  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : OK  
Protocol used : IS 11255 & USEPA  
Coordinates : --

S.No.	Parameters	Test Method	Results	Units
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	38.12	mg/Nm3
2	Sulphur Dioxide (SO <sub>2</sub> )	IS: 11255(P-2): 1985, RA 2019	923.12	mg/Nm3
3	Oxide of Nitrogen (NO <sub>2</sub> )	IS-11255 (P-7), RA 2017	235.96	mg/Nm3
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-.001)	mg/Nm3

\*BLQ= Below Limit Of Quantification, \*\*LOQ= Limit Of Quantification

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**TEST REPORT**



Sample Number : VTL/S/02  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/S/2406230002/A  
Format No : 7.8 F-03  
Party Reference No : NIL  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024

Sample Description : Stack Emission Monitoring

**General Information:-**

Sampling Location : Stack Unit-II  
Sample Collected By : VTL Team  
Date of Sampling : 15/06/2024  
Sampling duration (Minutes) : 32 min. (11:00 to 11:32 hrs.)  
Stack attached to : ESP  
Make of stack : MS  
Diameter of stack(m) : 7.5 m  
Height of stack(m) : 275 m  
Instrument calibration status : Calibrated  
Meteorological Condition : Clear Sky  
Ambient Temperature - Ta (°C) : 37°C  
Temperature of Stack Gases - Ts (°C) : 130°C  
Velocity of Stack Gases (m/sec.) : 21.10  
Flow rate of PM (LPM) : 31  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : OK  
Protocol used : IS 11255 & USEPA  
Coordinates : --

S.No.	Parameters	Test Method	Results	Units
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	41.23	mg/Nm3
2	Sulphur Dioxide (SO2)	IS: 11255(P- 2): 1985, RA.2019	1013.00	mg/Nm3
3	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017	243.00	mg/Nm3
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-.001)	mg/Nm3

\*BLQ= Below Limit Of Quantification, \*\*LOQ= Limit Of Quantification

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# TEST REPORT



Sample Number : VTL/AN/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/N/2406230001/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 29/06/2024  
Receipt Date : 23/06/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

### General Information:-

Sampling Location : Near Admin Building  
Instrument Code : VTL/SLM01  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 17/06/2024 To 18/06/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 23°C Max. 35°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : -

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	57.4	49.1

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

- Day Time is from 6.00 AM to 10.00 PM.
  - Night Time is reckoned between 10.00 PM to 6.00 AM.
  - Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
- Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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# TEST REPORT



Sample Number : VTL/AN/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/N/2406230002/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 29/06/2024  
Receipt Date : 23/06/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status :

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

### General Information:-

Sampling Location : Near Field Hostel  
Instrument Code : VTL/SLM/01  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 14/06/2024 To 15/06/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 23°C Max. 35°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : -

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.6	42.1

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

- Day Time is from 6.00 AM to 10.00 PM.
  - Night Time is reckoned between 10.00 PM to 6.00 AM.
  - Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
- Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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Sample Number : VTL/AN/03  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/N/2406230003/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 29/06/2024  
Receipt Date : 23/06/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

**General Information:-**

Sampling Location : Gate No. -2 (Gaitara Gate)  
Instrument Code : VTL/SLM/02  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 17/06/2024 To 18/06/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 21°C Max. 37°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.6	40.7

**Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000**

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.  
2. Night Time is reckoned between 10.00 PM to 6.00 AM.  
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.  
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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Sample Number : VTL/AN/04  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/N/2406230004/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 29/06/2024  
Receipt Date : 23/06/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

**General Information:-**

Sampling Location : Near Gate No.-01  
Instrument Code : VTL/SLM/02  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 14/06/2024 To 15/06/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 21°C Max. 37°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : -

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.7	42.1

**Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000**

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

- Day Time is from 6.00 AM to 10.00 PM.
  - Night Time is reckoned between 10.00 PM to 6.00 AM.
  - Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
- Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

\*\*\*End of Report\*\*\*

Checked by



RK Yadav  
Lab Incharge  
Authorized Signatory





**VIBRANT**

"Experience the Unimaginable" VTL/AN/05

**TEST REPORT**



Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/N/2406230005/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 29/06/2024  
Receipt Date : 23/06/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

**General Information:-**

Sampling Location : Near Mura Village Gate  
Instrument Code : VTL/SLM/03  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 17/06/2024 To 18/06/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 22°C Max. 37°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : -

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	52.4	42.8

**Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000**

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

- Day Time is from 6.00 AM to 10.00 PM.
  - Night Time is reckoned between 10.00 PM to 6.00 AM.
  - Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
- Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

\*\*\*End of Report\*\*\*



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**VIBRANT**

"Experience the difference in quality"  
Sample Number : VTL/AN/06

**TEST REPORT**



Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/N/2406230006/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 29/06/2024  
Receipt Date : 23/06/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

**General Information:-**

Sampling Location : Gate No.-3 (Bhatapara)  
Instrument Code : VTL/SLM/04  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 17/06/2024 To 18/06/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 22°C Max. 37°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	51.3	40.4

**Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000**

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.  
2. Night Time is reckoned between 10.00 PM to 6.00 AM.  
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.  
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/AN/07

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

Report No. : VTL/N/2406230007/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 29/06/2024  
Receipt Date : 23/06/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

**General Information:-**

Sampling Location : Near OHC  
Instrument Code : VTL/SLM/03  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 14/06/2024 To 15/06/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 19°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	51.2	39.7

**Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000**

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

- Day Time is from 6.00 AM to 10.00 PM.
  - Night Time is reckoned between 10.00 PM to 6.00 AM.
  - Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
- Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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# TEST REPORT



Sample Number : VTL/AN/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

Report No. : VTL/N/2406230008/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 29/06/2024  
Receipt Date : 23/06/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

### General Information:-

Sampling Location : Near Weigh Bridge  
Instrument Code : VTL/SLM/04  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 14/06/2024 To 15/06/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 19°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	59.7	49.6

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

- Day Time is from 6.00 AM to 10.00 PM.
  - Night Time is reckoned between 10.00 PM to 6.00 AM.
  - Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
- Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/SW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER  
Sampling Location : Mura Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

TEST REPORT



ULR No. : TC1122724000001301F  
Report No. : VTLW/2406230011/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 16/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	6.92	-
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	4.5	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	370.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2018	101.01	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	23.52	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA 2019	142.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	142.03	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	30.26	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	16.17	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.63	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P -38) : 1989, RA 2019	5.9	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	12.5	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	49.56	mg/l
15	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.2)	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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# TEST REPORT



## VIBRANT

*"Experience the unimaginable"*

Sample Number : VTL/SW/01

ULR No. : TC1122724000001301F

Report No. : VTLW/2406230011/A

S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT

**VIBRANT**  
"Experience the unimaginable"

Sample Number : VTL/SW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER  
Sampling Location : Mura Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLW/2406230011/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 16/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



TC-11227

**VIBRANT**  
"Experience the unimaginable"

Sample Number : VTL/SW/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER  
Sampling Location : Chicholi Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001302F  
Report No. : VTL/W/2406230012/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/05/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 16/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.16	-
2	Turbidity	IS : 3025 (P- 10) : 1884, RA 2017	7.3	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	510.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	31.26	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1988,Sec.RA 2022	24.16	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA 2019	152.00	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	121.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	29.56	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	11.48	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.76	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P -38) : 1989, RA 2019	6.3	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	8.5	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	35.26	mg/l
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.2)	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ 0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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# TEST REPORT



## VIBRANT

*"Experience the unimaginable"*

Sample Number : VTL/SW/02

ULR No. : TC112272400001302F

Report No. : VTLW/2406230012/A

S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT

Sample Number : VTL/SW/02  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER  
Sampling Location : Chicholi Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTL/W/2406230012/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 16/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	—
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2018	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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TEST REPORT



Sample Number : VTL/SW/03  
 Name & Address of the Party : M/s ADANI POWER LIMITED  
 Village- Raikheda, Block- Tilda Raipur 493225  
 Chhattisgarh

ULR No. : TC1122724000001303F  
 Report No. : VTL/W/2408230013/A  
 Format No : 7.8 F-01  
 Party Reference No :  
 Report Date : 29/06/2024  
 Period of Analysis : 23/06/2024-29/08/2024  
 Receipt Date : 23/06/2024  
 Sampling Date : 16/06/2024  
 Sampling Type : Grab  
 Sample Quantity : 2 Ltr  
 Coordinates : NA

Sample Description : SURFACE WATER  
 Sampling Location : Raikheda Pond Water  
 Sample Collected By : VTL Team  
 Preservation : Refrigerated  
 Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.23	—
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	4.4	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	460.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	53.26	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986,Sec.RA 2022	21.66	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA 2019	142.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	135.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	32.14	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	13.32	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.43	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P-38) : 1989, RA 2019	5.6	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	16.5	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	59.42	mg/l
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.2)	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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**TEST REPORT**



ULR No. : TC112272400001303F

Report No. : VTL/W/2406230013/A

Sample Number : VTL/SW/03

S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT

Sample Number : VTL/SW/03  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER  
Sampling Location : Raikheda Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTL/V/2406230013/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 16/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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TEST REPORT



Sample Number : VTL/SW/04  
 Name & Address of the Party : M/s ADANI POWER LIMITED  
 Village- Raikheda, Block- Tilda Raipur 493225  
 Chhattisgarh

ULR No. : TC1122724000001304F  
 Report No. : VTL/W/2406230014/A  
 Format No : 7.8 F-01  
 Party Reference No. :  
 Report Date : 29/06/2024  
 Period of Analysis : 23/06/2024-29/06/2024  
 Receipt Date : 23/06/2024  
 Sampling Date : 16/06/2024  
 Sampling Type : Grab  
 Sample Quantity : 2 Ltr  
 Coordinates : NA

Sample Description : SURFACE WATER  
 Sampling Location : Gaitara Pond Water  
 Sample Collected By : VTL Team  
 Preservation : Refrigerated  
 Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.36	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	3.8	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	485.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	65.98	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986,Sec.RA 2022	25.74	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA 2019	201.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	165.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	28.59	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	23.97	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.62	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P-38) : 1989, RA 2019	5.9	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	12.5	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	42.56	mg/l
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.2)	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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TEST REPORT



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ULR No. : TC1122724000001304F

Sample Number : VTL/SW/04

Report No. : VTL/W/2406230014/A

S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

\*BLO Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT

Sample Number : VTL/SW/04  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/W/2406230014/B  
Format No : 7 & F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 16/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : SURFACE WATER  
Sampling Location : Gaitara Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55 ) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5630C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT



**Sample Number :** VTL/SW/05  
**Name & Address of the Party :** M/s ADANI POWER LIMITED  
 Village- Raikheda, Block- Tilda Raipur 493225  
 Chhattisgarh

**Sample Description :** SURFACE WATER  
**Sampling Location :** Bangoli Dam  
**Sample Collected By :** VTL Team  
**Preservation :** Refrigerated  
**Method of sampling :** IS 3025

**ULR No. :** TC112273400001305F  
**Report No. :** VTL/W/2406230016/A  
**Format No :** 7.8 F-01  
**Party Reference No. :**  
**Report Date :** 29/06/2024  
**Period of Analysis :** 23/06/2024-29/06/2024  
**Receipt Date :** 23/06/2024  
**Sampling Date :** 18/06/2024  
**Sampling Type :** Grab  
**Sample Quantity :** 2 Lit  
**Coordinates :** NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	6.99	—
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	6.3	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	476.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	73.28	mg/l
5	Sulphate as (SO <sub>4</sub> )	IS: 3025 (P- 24) : 1988, Sec.RA 2022	24.89	mg/l
6	Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (P- 23) : 1986, RA 2019	131.0	mg/l
7	Total Hardness (CaCO <sub>3</sub> )	IS: 3025 (P- 21) : 2009, RA 2019	142.6	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	39.82	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	10.51	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.56	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (D <sub>O</sub> )	IS : 3025 (P- 38) : 1989, RA 2019	6.3	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	10.0	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	45.98	mg/l
15	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.2)	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



  
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ULR No. : TC112272400001305F

Sample Number : VTL/SW/05

Report No. : VTL/W/2408230015/A

S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

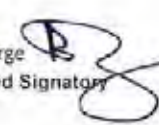
\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT

Sample Number : VTL/SW/05  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/W/2406230015/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 18/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : SURFACE WATER  
Sampling Location : Bangoli Dam  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55 ) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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**TEST REPORT**



Sample Number : VTLW/01  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Ash Recovery Water Pump Area  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001306F  
Report No. : VTLW/2406230016/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 28/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.23	--
2	Total Suspended Solids	IS: 3025 (P-17): 2022	42.15	mg/l

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT

Sample Number : VTLW/01  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhatisgarh

Sample Description : Water Sample  
Sampling Location : Ash Recovery Water Pump Area  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLW/2406230016/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units
1	Biochemical Oxygen Demand (BOD 3 Days at 27°)	IS :3025, (P-44),2023	7.23	mg/l
2	Chemical Oxygen Demand (COD)	IS :3025, (P-58) 2023	49.56	mg/l
3	Oil & Grease	IS :3025(P-39) 2021	*BLQ**(LOQ-4.0)	mg/l

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT



Sample Number : VTL/W/01  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Raw Water Area Reservoir  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC112272400001307F  
Report No. : VTL/W/2408230017/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Lit  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units
1	pH value	IS : 3025 (P-11) : 2022	7.62	—
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	6.3	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	530.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	72.56	mg/l
5	Sulphate as (SO <sub>4</sub> )	IS: 3025 (P- 24) : 1986,Sec.RA 2022	35.74	mg/l
6	Total Alkalinity (as CaCO <sub>3</sub> )	IS : 3025 (P- 23) : 1986, RA 2019	195.0	mg/l
7	Total Hardness (CaCO <sub>3</sub> )	IS: 3025 (P- 21) : 2009, RA 2019	230.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	72.56	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	11.90	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.56	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P -38) : 1989, RA 2019	5.8	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	10.5	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	42.65	mg/l
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.68	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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ULR No. : TC112272400001307F

Sample Number : VTLW/01

Report No. : VTLW/2406230017/A

S.No.	Test Parameters	Test Method	Results	Units
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



  
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## TEST REPORT

Sample Number : VTL/W/01  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/W/2406230017/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Raw Water Area Reservoir  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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**TEST REPORT**



Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhatisgarh

ULR No. : TC1122724000001291F  
Report No. : VTLW/2406230001/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-01 (Near Raw Water Pump)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.76	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	263.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	79.62	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	230.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	84.10	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	15.64	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16). 1984, RA 2017	670.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	32.0	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.59	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	17.56	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.23	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.30	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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**VIBRANT**

"Experience the Unimaginable"  
Sample Number : VTLW/01

**TEST REPORT**



ULR No. : TC1122724000001291F

Report No. : VTLW/2406230001/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E. Coll	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1988 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Expect the unimaginable"  
Sample Number : VTLW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2406230001/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-01 (Near Raw Water Pump)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, I.R.A 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS - 3025 (P-5) - RA 2018	Agreeable	-	Agreeable	Agreeable
3	Taste	IS :3025 (P-8). 1984 RA 2017	Agreeable	-	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*

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# TEST REPORT



## VIBRANT

Experience the unimaginable

Sample Number : VTL/W/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-02 (Near Mura Gate)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001292F  
Report No. : VTL/W/2406230002/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.62	—	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	258.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	72.23	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	210.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	63.59	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	18.90	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	530.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	21.0	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD 2017	0.54	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	17.65	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.26	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.36	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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**VIBRANT**

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Sample Number : VTL/W/02

**TEST REPORT**



ULR No. : TC1122724000001292F

Report No. : VTL/W/2405230002/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT

Sample Number : VTL/W/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Ghhatlisingarh

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-02 (Near Mura Gate)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTL/W/2406230002/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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**VIBRANT**

"Exceeding the unimaginable"  
Sample Number : VTL/W/03

**TEST REPORT**



TC-11227

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000001293F  
Report No. : VTL/W/2406230003/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-03 (Near Ash Recovery Water)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.70	-	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	232.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	76.23	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	245.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	70.12	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1984, RA 2019	10.16	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	631.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	26.42	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD .2017	0.62	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	16.42	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.26	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.34	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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**VIBRANT**

*Expressing the unimaginable*  
Sample Number: VTLW/03

**TEST REPORT**



ULR No. : TC1122724000001293F

Report No. : VTLW/2406230003/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26),2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*

**VIBRANT**  
*Expressing the unimaginable*



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Lab Incharge  
Authorized Signatory



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**Vibrant Techno Lab Pvt. Ltd.**

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## TEST REPORT

Sample Number : VTLW/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2406230003/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/08/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-03 (Near Ash Recovery Water)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*

# VIBRANT

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**VIBRANT**

"Experience the unimaginable"  
Sample Number : VTL/W/04

**TEST REPORT**



TC-11227

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000001294F  
Report No. : VTLW/2406230004/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-04 (Near Wagon Tippler Area)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.79	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	291.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	85.23	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	245.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1986, RA 2019	75.62	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	19.04	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P 16) : 1984, RA 2017	670.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	36.25	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD .2017	0.67	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	23.15	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.24	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.39	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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**VIBRANT**

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Sample Number : VTL/W/04

**TEST REPORT**



ULR No. : TC112272400001294F  
Report No. : VTL/W/2408230004/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"  
Sample Number : VTLW/04

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2406230004/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No -04 (Near Wagon Tippler Area)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



Sample Number : VTLW/05

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC112272400001295F  
Report No. : VTLW/2406230005/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-05 (Near Old Project Doosan)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.45	—	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	196.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	61.85	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	152.0	mg/l	200	600
6	Chloride (as Cl)	IS. 3025 (P-32). 1988, RA 2019	54.28	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	10.13	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	405.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	19.56	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD 2017	0.41	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	12.45	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.29	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.37	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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# TEST REPORT



## VIBRANT

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Sample Number : VTL/W/05

ULR No. : TC1122724000001295F

Report No. : VTL/W/2406230005/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*

# VIBRANT

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**VIBRANT**

*"Experience the unimaginable"*  
Sample Number : VTLW/05

**TEST REPORT**

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2406230005/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-05 (Near Old Project Doosan)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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**VIBRANT**

"Experience the unimaginable"  
Sample Number: VTL/W/06

**TEST REPORT**



TC-11227

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC112272400001296F  
Report No. : VTL/W/2406230006/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-06 (Near OWC Area (Brick  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.46	—	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO <sub>3</sub> )	IS: 3025 (P-21): 2009, RA 2019	251.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	66.32	mg/l	75	200
5	Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (P-23): 1986, RA 2019	150.10	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	38.47	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	20.78	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	425.0	mg/l	500	2000
9	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P-24): 1986, RA 2022	25.12	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.46	mg/l	1.0	1.5
11	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P-34): 1988	20.13	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.26	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition , 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.35	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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# TEST REPORT



**VIBRANT**  
"Experience the unimaginable"  
Sample Number : VTLW/06

ULR No. : TC112272400001296F  
Report No. : VTLW/2406230006/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26) 2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"  
Sample Number : VTLW/06

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-08 (Near OWC Area (Brick  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTL/W/2406230006/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*

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**VIBRANT**

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Sample Number : VTL/W/07

**TEST REPORT**



Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC112272400001297F  
Report No. : VTL/W/2406230007/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Mura Hand Pump Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.03	—	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	415.0	mg/l	200	800
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	131.01	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	356.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1986, RA 2019	102.45	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-45): 1994, RA 2019	21.42	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	790.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	79.63	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.13	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	26.45	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.29	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.41	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



Checked by *Raj*



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**VIBRANT**

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Sample Number : VTLW/07

**TEST REPORT**



ULR No. : TC1122724000001297F

Report No. : VTLW/2406230007/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*

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## TEST REPORT

Sample Number : VTLW/07

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Village - Mura Hand Pump Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLW/2406230007/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 17/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition 4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



Sample Number : VTLW/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000001298F  
Report No. : VTLW/2406230008/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 16/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Chicholi Tap Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.29	—	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO <sub>3</sub> )	IS: 3025 (P-21): 2009, RA 2019	275.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	79.26	mg/l	75	200
5	Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (P-23): 1986, RA 2019	240.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	78.26	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	18.77	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	685.0	mg/l	500	2000
9	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P-24): 1986, RA 2022	39.78	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.28	mg/l	1.0	1.5
11	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P-34): 1988	24.23	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.29	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.49	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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Sample Number : VTLW/08

**TEST REPORT**



ULR No. : TC1122724000001298F  
Report No. : VTLW/2406230008/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*

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Sample Number : VTLW/08

**TEST REPORT**

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

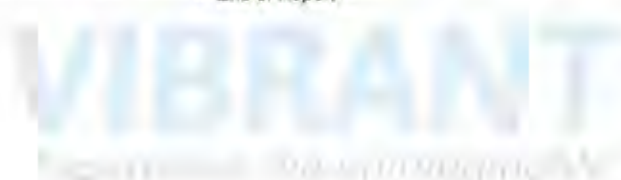
Report No. : VTLW/2406230008/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 15/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Chicholi Tap Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025-(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



TC-11227

**Sample Number :** VTLW/09

**Name & Address of the Party :** M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

**Sample Description :** Water Sample  
**Sampling Location :** Village - Raikheda Tap Water  
**Sample Collected By :** VTL Team  
**Preservation :** Refrigerated  
**Method of sampling :** IS 3025

**ULR No. :** TC1122724000001299F  
**Report No. :** VTLW/2406230009/A  
**Format No :** 7 8 F-01  
**Party Reference No :**  
**Report Date :** 29/06/2024  
**Period of Analysis :** 23/06/2024-29/06/2024  
**Receipt Date :** 23/06/2024  
**Sampling Date :** 16/06/2024  
**Sampling Type :** Grab  
**Sample Quantity :** 2 Ltr  
**Coordinates :** NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.63	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21). 2009, RA 2019	263.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	68.15	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	225.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	65.12	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	22.59	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	559.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	34.26	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.52	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	16.59	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.26	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.39	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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TEST REPORT



Sample Number : VTLW/09

ULR No. : TC1122724000001299F  
Report No. : VTLW/2406230009/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

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Sample Number : VTLW/09

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2406230009/B

Format No : 7.8 F-01

Party Reference No :

Report Date : 29/06/2024

Period of Analysis : 23/06/2024-29/06/2024

Receipt Date : 23/06/2024

Sampling Date : 16/06/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr

Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Raikheda Tap Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*

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# TEST REPORT



Sample Number : VTLW/10

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Village - Gaitara Hand Pump Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001300F  
Report No. : VTLW/2406230010/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 16/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.13	—	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	231.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	61.25	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	225.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	29.45	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	19.00	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	392.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	18.26	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD -2017	0.41	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	6.16	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.26	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.39	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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Sample Number : VTLW/10

**TEST REPORT**



ULR No. : TC1122724000001300F  
Report No. : VTLW/2406230010/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

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# TEST REPORT

## VIBRANT

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Sample Number : VTLW/10

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Village - Gaitara Hand Pump Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLW/2406230010/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 15/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8). 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

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**VIBRANT**

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Sample Number : VTL/SO/01

**TEST REPORT**



M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Raikheda Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

ULR No. : TC11227240000097F  
Report No. : VTL/SO/2406230001/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 20/06/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.76	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.301	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.34	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	101.39	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	324.65	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	156.04	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	263.41	kg/hect.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.61	%
9	Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	170.34	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	254.57	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	42.65	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	31.66	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	40.70	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	5.20	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	3.17	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	13.34	mg/kg

\*BLQ=Below Limit of Quantification, \*\*LOQ=Limit of Quantification

\*\*\*End of Report\*\*\*



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Sample Number : VTL/SO/01

TEST REPORT

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Raikheda Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

Report No. : VTL/SO/2406230001/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 20/06/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	37.13	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	3.62	mg/kg
4	Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	--

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M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Gaitara Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

ULR No. : TC11227240000098F  
Report No. : VTL/S0/2406230002/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 20/06/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.45	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.298	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.32	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	98.27	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	316.23	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	142.47	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	248.21	kg/hect.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.64	%
9	Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	158.19	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	248.65	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	40.13	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	27.14	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	28.44	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	4.75	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	2.94	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	12.21	mg/kg

\*BLQ=Below Limit of Quantification,\*\*LOQ=Limit of Quantification

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Sample Number : VTL/S0/02

**TEST REPORT**

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Gaitara Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

Report No. : VTL/S0/2406230002/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 20/06/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	40.22	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	3.17	mg/kg
4	Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	--

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Sample Number: VTL/S0/03

**TEST REPORT**



M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Mura Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

ULR No. : TC11227240000099F  
Report No. : VTL/S0/2406230003/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 20/06/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.93	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.316	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.31	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	110.75	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	340.68	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	169.60	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	283.67	kg/hect.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.58	%
9	Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	182.46	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	266.41	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	44.17	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	38.44	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	47.49	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	5.65	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B: 1996	3.84	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	14.25	mg/kg

\*BLQ=Below Limit of Quantification, \*\*LOQ=Limit of Quantification

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Sample Number : VTL/S0/03

TEST REPORT

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Mura Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

Report No. : VTL/S0/2406230003/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 20/06/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	36.10	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	4.07	mg/kg
4	Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	--

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**TEST REPORT**



Sample Number : VTL/S0/04

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Chicholi Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

ULR No. : TC112272400000100F  
Report No. : VTL/S0/2406230004/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 20/06/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.36	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.287	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.31	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	96.71	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	312.62	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	137.94	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	233.01	kg/hect.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.66	%
9	Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	145.92	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	245.68	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	35.58	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	24.88	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	37.31	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	4.52	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	2.71	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	11.76	mg/kg

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# TEST REPORT



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Sample Number : VTL/S0/04

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Rajpur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Chicholi Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

Report No. : VTL/S0/2406230004/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 20/06/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	39.31	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	2.94	mg/kg
4	Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	--

\*BLQ=Below Limit of Quantification,\*\*LOQ=Limit of Quantification

\*\*\*End of Report\*\*\*



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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/S0/05

**TEST REPORT**



TC-11227

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL

Sampling Location : Near Field Hostel Garden

Sample Collected By : VTL Team

Parameter Required : As per work order

Method of sampling : IS 2720

ULR No. : TC112272400000101F

Report No. : VTL/S0/2406230005/A

Format No : 7.8 F-01

Party Reference No :

Report Date : 29/06/2024

Period of Analysis : 23/06/2024-29/06/2024

Receipt Date : 23/06/2024

Sampling Date : 20/06/2024

Sampling Type : Composite

Sample Quantity : 2 Kg.

Packing Status : Temporary Sealed

Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.89	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.311	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.36	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	106.07	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	332.66	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	162.82	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	273.54	kg/hect.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.57	%
9	Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	194.65	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	260.49	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	43.66	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	36.18	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	46.36	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	5.43	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	3.62	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	13.79	mg/kg

\*BLQ=Below Limit of Quantification,\*\*LOQ=Limit of Quantification

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## TEST REPORT


**VIBRANT**
*"Experience the unimaginable"*
**Sample Number :** VTL/S0/05

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

**Name & Address of the Party :**
**Sample Description :** SOIL

**Sampling Location :** Near Field Hostel Garden

**Sample Collected By :** VTL Team

**Parameter Required :** As per work order

**Method of sampling :** IS 2720

**Report No. :** VTL/S0/2406230005/B

**Format No :** 7.8 F-01

**Party Reference No :**
**Report Date :** 29/06/2024

**Period of Analysis :** 23/06/2024-29/06/2024

**Receipt Date :** 23/06/2024

**Sampling Date :** 20/06/2024

**Sampling Type :** Composite

**Sample Quantity :** 2 Kg.

**Packing Status :** Temporary Sealed

**Coordinates :** NA

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	37.26	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	3.84	mg/kg
4	Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	--

\*BLQ=Below Limit of Quantification,\*\*LOQ=Limit of Quantification

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## TEST REPORT



Sample Number : VTL/WW/01

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : STP Outlet  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001275F  
Report No. : VTL/WW/2406230001/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.76	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	14.86	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	11.42	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	51.00	mg/l	250

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT



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Sample Number : VTL/WW/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Waste Water  
Sampling Location : STP Inlet  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001276F  
Report No. : VTL/WW/2406230002/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit
1	pH	IS: 3025 (P-11): 2022	7.32	-
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	176.32	mg/l
3	Oil & Grease	IS:3025 (P-39): 2021	29.45	mg/l
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C )	IS: 3025 (P-44): 1993, RA: 2019	70.23	mg/l
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	310.0	mg/l

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT



Sample Number : VTL/WW/02  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Waste Water  
Sampling Location : ETP Inlet  
Sample Collected By : VTL Team  
Preservation : Refrigerated.  
Method of sampling : IS 3025

ULR No. : TC1122724000001277F  
Report No. : VTL/WW/2406230003/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit
1	pH	IS: 3025 (P-11): 2022	7.42	-
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	152.0	mg/l
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C )	IS: 3025 (P-44): 1993, RA: 2019	42.00	mg/l
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	260.0	mg/l

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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## TEST REPORT



Sample Number : VTL/WW/03

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : ETP Outlet  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001278F  
Report No. : VTL/WW/2406230004/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	8.04	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	21.12	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ/**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C )	IS: 3025 (P-44): 1993, RA: 2019	15.62	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2008 RA: 2017	69.45	mg/l	250

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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Sample Number : VTL/WW/05

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Inlet Unit-II  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001279F  
Report No. : VTL/WW/2406230005/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	0.2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	1.0
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.332	mg/l	0.5

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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## TEST REPORT

Sample Number : VTL/WW/05

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Inlet Unit-II  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTL/WW/2406230005/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO <sub>4</sub> )	IS.3025 (P-31):1988, ( stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/l	5
2	Other Corrosion Inhibiting Material	APHA 23rd Edition : 2017	ND	mg/l	-

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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## TEST REPORT



Sample Number : VTL/WW/07

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Outlet Unit-II  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001280F  
Report No. : VTL/WW/2406230006/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	0.2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	1.0
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.24	mg/l	0.5

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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## TEST REPORT

Sample Number : VTLWW/07

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Outlet Unit-II  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTL/WW/2406230006/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO <sub>4</sub> )	IS:3025 (P-31):1988, ( stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/l	5.0
2	Other Corrosion Inhibiting Material	APHA 23rd Edition : 2017	ND	mg/l	—

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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TEST REPORT



Sample Number : VTL/WW/03

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Water Condenset Inlet unit -II  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001281F  
Report No. : VTL/WW/2406230007/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 28/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.31	-	6.5 to 8.5
2	Temperature	IS: 3025 (P-9): 1984, RA 2017	24.7	°C	Shall not exceed 5°C above the receiving water temperature
3	Residual Free Chlorine	IS: 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.5

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit Of Quantification

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# TEST REPORT



Sample Number : VTL/VVW/04

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Water Condenset Outlet unit-II  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001282F  
Report No. : VTL/VVW/2406230008/A  
Format No : 7.0 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.34	-	6.5 to 8.5
2	Temperature	IS: 3025 (P-9): 1984, RA 2017	29.1	°C	Shall not exceed 5°C above the receiving water temperature
3	Residual Free Chlorine	IS: 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.5

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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## TEST REPORT



Sample Number : VTL/WW/04

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Rajpur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Inlet Unit-I  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC112272400001283F  
Report No. : VTL/WW/2406230009/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/05/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	0.2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	1.0
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.38	mg/l	0.5

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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## TEST REPORT

Sample Number : VTLWW/04

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : **Waste Water**  
Sampling Location : Cooling Tower Blow Down Inlet Unit-I  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLWW/2406230009/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO <sub>4</sub> )	IS:3025 (P-31):1988, ( stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ:0.2)	mg/l	5.0
2	Other Corrosion Inhibiting Material	APHA 23rd Edition : 2017	ND	mg/l	-

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit OF Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT



Sample Number : VTL/WW/06

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Outlet Unit-I  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001284F  
Report No. : VTL/WW/2406230010/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ:0.1)	mg/l	0.2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ:0.2)	mg/l	1.0
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.23	mg/l	0.5

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit Of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT

Sample Number : VTL/WW/06

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Rajpur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Outlet Unit-I  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTL/WW/2406230010/B  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):1988, ( stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/l	5.0
2	Other Corrosion Inhibiting Material	APHA 23rd Edition : 2017	ND	mg/l	---

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT



Sample Number : VTL/VVW/01

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Water Condenset Inlet unit -I  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001285F  
Report No. : VTL/VVW/240623001 I/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.32	-	6.5 to 8.5
2	Temperature	IS: 3025 (P-9): 1984, RA 2017	24.5	°C	Shall not exceed 5°C above the receiving water temperature
3	Residual Free Chlorine	IS: 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.5

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

\*\*\*End of Report\*\*\*



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## TEST REPORT



Sample Number : VTL/WW/02

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Water Condenset Outlet unit -I  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000001266F  
Report No. : VTL/WW/2406230012/A  
Format No : 7.8 F-01  
Party Reference No :  
Report Date : 29/06/2024  
Period of Analysis : 23/06/2024-29/06/2024  
Receipt Date : 23/06/2024  
Sampling Date : 21/06/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.48	-	6.5 to 8.5
2	Temperature	IS: 3025 (P-9): 1984, RA 2017	29.5	*C	Shall not exceed 5°C above the receiving water temperature
3	Residual Free Chlorine	IS: 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.5

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

\*\*\*End of Report\*\*\*



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## Chapter-5

### CONCLUSION

M/s Adani Power Limited., authorities have been taken successful steps in controlling environmental pollution in and around the project. This fact is clear from analytical results of different environmental parameters. A brief conclusion is as follows:

S.No	Environment Parameters	Conclusion
1.	Air Environment	After analysis of the samples from seven different Location it is observed that both the individuals and average concentration of air polletants in respect of SO <sub>2</sub> , NO <sub>2</sub> , PM <sub>10</sub> , PM <sub>2.5</sub> , CO and Mercury are well within the prescribed limits of NAAQM standard. People of township and of surrounding villages do not have any problems regarding the air quality and have no grievances because of Thermal Power Plant activities.
2.	Noise Environment	The observations taken at 8 different locations during day and night time the noise level is well within prescribed limits of CPCB. Hence there is no possibility of any adverse effect of noise generated due to Thermal Power Plant activities on peoples of Surrounding areas.
3.	Water Environment	The Analytical result of the samples from the ground water of vaillages, surface water from river, and domestic & industrial effluent after treatment shows that the concentrations of different water parameters are well within prescribed limits and will not cause any adverse impact on human health and on surrounding area. People of surrounding areas express satisfaction about the water quality of that area.

All the above details show that Thermal Power Plant of M/s Adani Power Limited is not causing any adverse impact on the human health and ecological balance.





# TEST REPORT



## VIBRANT

Sample Number: VTL/AA/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270001/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-  
Sampling Location : Near Raw Water Area  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/01  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 20/09/2024 To 21/09/2024  
Time of Monitoring : 09:00 TO 09:00 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 35°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	60.83	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	30.29	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	14.27	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.82	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1



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TEST REPORT



**VIBRANT**

*"Experience the unimaginable"*

Sample Number : VTL/AA/01

Report No. : VTL/A/2409270001/A

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*



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TEST REPORT

**VIBRANT**

*"Experience the unimaginable"*

Sample Number : VTL/AA/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270001/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Near Raw Water Area  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/01  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 20/09/2024 To 21/09/2024  
Time of Monitoring : 09:00 TO 09:00 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 35°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.44	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	202.0	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

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# TEST REPORT



TC-11227

## VIBRANT

"Experience the unimaginable"

Sample Number : VTLAA/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLA/2409270002/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Near STP  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/02  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 20/09/2024 To 21/09/2024  
Time of Monitoring : 09:30 TO 09:30 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 35°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	55.12	µg/m <sup>3</sup>	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	24.94	µg/m <sup>3</sup>	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	14.37	µg/m <sup>3</sup>	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	8.45	µg/m <sup>3</sup>	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m <sup>3</sup>	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m <sup>3</sup>	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m <sup>3</sup>	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m <sup>3</sup>	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m <sup>3</sup>	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m <sup>3</sup>	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m <sup>3</sup>	1



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TEST REPORT



**VIBRANT**

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Sample Number: VTL/AA/03

Report No. : VTL/A/2409270002/A

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/AA/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270002/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Near STP  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/02  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 20/09/2024 To 21/09/2024  
Time of Monitoring : 09:30 TO 09:30 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 35°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.36	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	172.0	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

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# TEST REPORT



TC-11227

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/AA/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270003/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

### General Information:-

Sampling Location : Near Old Project Doosan  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/03  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 20/09/2024 To 21/09/2024  
Time of Monitoring : 11:30 TO 11:30 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 35°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	62.72	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	31.24	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	16.58	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.16	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1



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# TEST REPORT

## VIBRANT

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Sample Number : VTL/AA/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270003/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

### General Information:-

Sampling Location : Near Old Project Doosan  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/03  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 20/09/2024 To 21/09/2024  
Time of Monitoring : 11:30 TO 11:30 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 35°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.50	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	211.0	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

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Sample Number : VTL/AA/07

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270004/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

### General Information:-

Sampling Location : Village - Raikheda (Jitendra House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/04  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 23/09/2024 To 24/09/2024  
Time of Monitoring : 09:00 TO 09:00 Hrs.  
Ambient Temperature (°C) : Min. 27°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	50.86	µg/m <sup>3</sup>	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	21.67	µg/m <sup>3</sup>	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	9.34	µg/m <sup>3</sup>	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	5.89	µg/m <sup>3</sup>	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m <sup>3</sup>	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m <sup>3</sup>	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m <sup>3</sup>	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m <sup>3</sup>	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m <sup>3</sup>	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m <sup>3</sup>	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m <sup>3</sup>	1



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## TEST REPORT

# VIBRANT

"Experience the unimaginable"

Sample Number : VTL/AA/07

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270004/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

### General Information:-

Sampling Location : Village - Raikheda (Jitendra House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/04  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 23/09/2024 To 24/09/2024  
Time of Monitoring : 09:00 TO 09:00 Hrs.  
Ambient Temperature (°C) : Min. 27°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.38	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	142.0	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/AA/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

**TEST REPORT**



Report No. : VTL/A/2409270005/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-  
Sampling Location : Village - Gaitara (Amardas House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/03  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 23/09/2024 To 24/09/2024  
Time of Monitoring : 09:30 TO 09:30 Hrs.  
Ambient Temperature (°C) : Min. 27°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	49.67	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	22.59	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	8.79	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	6.57	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1



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## TEST REPORT

Sample Number : VTL/AA/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270005/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Village - Gaitara (Amardas House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/03  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 23/09/2024 To 24/09/2024  
Time of Monitoring : 09:30 TO 09:30 Hrs.  
Ambient Temperature (°C) : Min. 27°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.33	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	127.0	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

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**VIBRANT**

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Sample Number : VTL/AA/06

Name & Address of the Party : M/s ADANI POWER LIMITED  
 Village- Raikheda, Block- Tilda Raipur 493225  
 Chhattisgarh

**TEST REPORT**

TC-11227

Report No. : VTL/A/2409270006/A  
 Format No : 7.8 F-02  
 Party Reference No : NIL  
 Report Date : 07/10/2024  
 Period of Analysis : 27/09/2024-07/10/2024  
 Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Village - Chicholi (Vikash Rajput House)  
 Sample Collected By : VTL Team  
 Sampling Equipment used : RDS/FPS  
 Instrument Code : VTL/RDS/FPS/02  
 Coordinates : -  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 23/09/2024 To 24/09/2024  
 Time of Monitoring : 12:30 TO 12:30 Hrs.  
 Ambient Temperature (°C) : Min. 27°C Max. 36°C  
 Surrounding Activity : Human, Vehicular & Other Act.  
 Scope of Monitoring : Regulatory Requirement  
 Method of Sampling : IS :5182  
 Sampling Duration : 24 Hrs.  
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	45.94	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	23.16	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	7.29	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	5.43	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2.1999	*BLQ (**LOQ 5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1



  
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# TEST REPORT

## VIBRANT

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Sample Number : VTL/AA/06

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270006/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Village - Chicholi (Vikash Rajput House)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/02  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 23/09/2024 To 24/09/2024  
Time of Monitoring : 12:30 TO 12:30 Hrs.  
Ambient Temperature (°C) : Min. 27°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.31	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	139.0	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

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# TEST REPORT



## VIBRANT

Sample Number : VTL/AA/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270007/A  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-  
Sampling Location : Village - Mura (Near Petrol Pump)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/01  
Coordinates : -  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 23/09/2024 To 24/09/2024  
Time of Monitoring : 10:30 TO 10:30 Hrs.  
Ambient Temperature (\*C) : Min. 27\*C Max. 36\*C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	52.43	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	21.87	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	10.64	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	8.60	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/m³	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m³	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m³	20
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1



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## TEST REPORT

Sample Number : VTL/AA/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/A/2409270007/B  
Format No : 7.8 F-02  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

**General Information:-**

Sampling Location : Village - Mura (Near Petrol Pump)  
Sample Collected By : VTL Team  
Sampling Equipment used : RDS/FPS  
Instrument Code : VTL/RDS/FPS/01  
Coordinates : --  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 23/09/2024 To 24/09/2024  
Time of Monitoring : 10:30 TO 10:30 Hrs.  
Ambient Temperature (°C) : Min. 27°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Scope of Monitoring : Regulatory Requirement  
Method of Sampling : IS :5182  
Sampling Duration : 24 Hrs.  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR)	0.37	mg/m <sup>3</sup>	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	128.0	µg/m <sup>3</sup>	--
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m <sup>3</sup>	--

\*BLQ-Below Limit Of Quantification, \*\*LOQ-Limit Of Quantification

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## TEST REPORT

**VIBRANT**  
\*Experienced Sample Number\*

Name & Address of the Party:

VTL/FA/01  
M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur  
493225, Chhattisgarh

Sampling Description:

FLY ASH

Report No.: VTL/FA/2409270001/B  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Report Date: 07/10/2024  
Period of Analysis: 27/09/2024-07/10/2024  
Sampling Date: 24/09/2024

### TEST RESULTS

S. No.	Parameter	Result
1.	Arsenic as As (mg/kg)	0.29
2.	Lead as Pb (mg/kg)	0.76
3.	Mercury as Hg (mg/kg)	0.37
4.	Chromium as Cr (mg/kg)	0.58

Checked By



RK Yadav  
Lab Incharge

Authorized Signatory

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## TEST REPORT

**VIBRANT**  
"Experience the Unimogrowth"

Sample Number:  
Name & Address of the  
Party:

VTL/BA/01  
M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur  
493225, Chhattisgarh

Report No.: VTL/BA/2409270001/B  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Report Date: 07/10/2024  
Period of Analysis: 27/09/2024-07/10/2024  
Sampling Date: 24/09/2024

Sampling Description: BOTTOM ASH

### TEST RESULTS

S. No.	Parameter	Result
1.	Arsenic as As (mg/kg)	0.25
2.	Lead as Pb (mg/kg)	4.89
3.	Mercury as Hg (mg/kg)	0.58
4.	Chromium as Cr (mg/kg)	2.98

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## TEST REPORT

**VIBRANT**  
Sample Number

Name & Address of the Party:

VTL/PA/01  
M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur  
493225, Chhattisgarh

Report No.: VTL/PA/2409270001/B  
Format No.: 7.8 F-01

Party Reference No.: NIL  
Report Date: 07/10/2024  
Period of Analysis: 27/09/2024-07/10/2024  
Sampling Date: 24/09/2024

Sampling Description: POND ASH

### TEST RESULTS

S. No.	Parameter	Result
1.	Arsenic as As (mg/kg)	0.18
2.	Lead as Pb (mg/kg)	4.53
3.	Mercury as Hg (mg/kg)	0.36
4.	Chromium as Cr (mg/kg)	2.55

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#### 4.1b Stack Monitoring



Figure No.4 Plan Showing Stack Location

#### Stack Location

- Stack Unit-I
- Stack Unit-II





# TEST REPORT



Sample Number : VTL/S/01  
Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/S/2409270001/A  
Format No : 7.8 F-03  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024

Sample Description : Stack Emission Monitoring

**General Information:-**

Sampling Location : Stack Unit-I  
Sample Collected By : VTL Team  
Date of Sampling : 19/09/2024  
Sampling duration (Minutes) : 32 min. (12:20 to 12:52 hrs.)  
Stack attached to : ESP  
Make of stack : MS  
Diameter of stack(m) : 7.5 m  
Height of stack(m) : 275 m  
Instrument calibration status : Calibrated  
Meteorological Condition : Clear Sky  
Ambient Temperature - Ta (°C) : 30°C  
Temperature of Stack Gases - Ts (°C) : 138°C  
Velocity of Stack Gases (m/sec.) : 22.40  
Flow rate of PM (LPM) : 31  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : OK  
Protocol used : IS 11255 & USEPA  
Coordinates : --

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	32.16	mg/Nm3	50
2	Sulphur Dioxide (SO <sub>2</sub> )	IS: 11255(P- 2): 1985, RA.2019	845.0	mg/Nm3	--
3	Oxide of Nitrogen (NO <sub>2</sub> )	IS-11255 (P-7), RA 2017	211.06	mg/Nm3	--
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-001)	mg/Nm3	--

\*BLQ= Below Limit Of Quantification, \*\*LOQ= Limit Of Quantification

\*\*\*End of Report\*\*\*



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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/S/02

Name & Address of the Party : M/s ADANI POWER LIMITED

Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

TEST REPORT



Report No. : VTL/S/2409270002/A

Format No : 7.8 F-03

Party Reference No : NIL

Report Date : 07/10/2024

Period of Analysis : 27/09/2024-07/10/2024

Receipt Date : 27/09/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : Stack Unit-II  
 Sample Collected By : VTL Team  
 Date of Sampling : 19/09/2024  
 Sampling duration (Minutes) : 27 min. (11:10 to 11:37 hrs.)  
 Stack attached to : ESP  
 Make of stack : MS  
 Diameter of stack(m) : 7.5 m  
 Height of stack(m) : 275 m  
 Instrument calibration status : Calibrated  
 Meteorological Condition : Clear Sky  
 Ambient Temperature - Ta (°C) : 28°C  
 Temperature of Stack Gases - Ts (°C) : 133°C  
 Velocity of Stack Gases (m/sec.) : 25.80  
 Flow rate of PM (LPM) : 36  
 Flow rate of Gas (LPM) : 2.0  
 Sampling condition : OK  
 Protocol used : IS 11255 & USEPA  
 Coordinates : --

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	38.75	mg/Nm3	50
2	Sulphur Dioxide (SO2)	IS: 11255(P- 2): 1985, RA.2019	958.0	mg/Nm3	--
3	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017	232.0	mg/Nm3	--
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-.0 01)	mg/Nm3	--

\*BLQ= Below Limit Of Quantification, \*\*LOQ= Limit Of Quantification

\*\*\*End of Report\*\*\*



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# VIBRANT

"Experience the unimaginable"

Sample Number : VTL/AN/01



TC-11227

## TEST REPORT

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/N/2409270001/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 07/10/2024  
Receipt Date : 27/09/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status :

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

### General Information:-

Sampling Location : Near Admin Building  
Instrument Code : VTL/SLM/01  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 23/09/2024 To 24/09/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 27°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	55.1	47.6

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"  
Sample Number : VTL/AN/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/N/2409270002/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 07/10/2024  
Receipt Date : 27/09/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

### General Information:-

Sampling Location : Near Field Hostel  
Instrument Code : VTL/SLM/02  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 23/09/2024 To 24/09/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 27°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	51.8	41.3

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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# VIBRANT

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Sample Number : VTL/AN/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

Report No. : VTL/N/2409270003/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 07/10/2024  
Receipt Date : 27/09/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

## TEST REPORT



### General Information:-

Sampling Location : Gate No. -2 (Gaitara Gate)  
Instrument Code : VTL/SLM/01  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 20/09/2024 To 21/09/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 25°C Max. 35°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	54.7	42.1

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

\*\*\*End of Report\*\*\*



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# VIBRANT

"Experience the unimaginable"



TC-11227

## TEST REPORT

Sample Number : VTL/AN/04  
 Name & Address of the Party : M/s ADANI POWER LIMITED  
 Village- Raikheda, Block- Tilda Raipur 493225  
 Chhattisgarh

Report No. : VTL/N/2409270004/A  
 Format No : 7.8 F-04  
 Party Reference No : NIL  
 Report Date : 07/10/2024  
 Receipt Date : 27/09/2024  
 Sampling Duration : 24 Hrs.  
 Sample Collected : VTL Team  
 Instrument : Calibrated  
 Calibration Status

Sample Description : Ambient Noise Level Monitoring  
 Scope of Monitoring : Regulatory Requirement  
 Protocol Used : IS 9989  
 Instrument Used : SLM

### General Information:-

Sampling Location : Near Gate No.-01  
 Instrument Code : VTL/SLM/01  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 20/09/2024 To 21/09/2024  
 Time of Monitoring : 06:00 TO 06:00 Hrs.  
 Ambient Temperature (°C) : Min. 25°C Max. 35°C  
 Surrounding Activity : Human, Vehicular & Other Act.  
 Parameter Required : As per work order  
 Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	51.5	40.3

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.  
 2. Night Time is reckoned between 10.00 PM to 6.00 AM.  
 3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.  
 Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

*"Experience the unimaginable"*

Sample Number : VTL/AN/05

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/N/2409270005/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 07/10/2024  
Receipt Date : 27/09/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

### General Information:-

Sampling Location : Near Mura Village Gate  
Instrument Code : VTL/SLM/03  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 23/09/2024 To 24/09/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 27°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	51.6	40.8

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.  
2. Night Time is reckoned between 10.00 PM to 6.00 AM.  
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.  
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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/AN/06

Name & Address of the Party : M/s ADANI POWER LIMITED  
 Village- Raikheda, Block- Tilda Raipur 493225  
 Chhattisgarh

Sample Description : Ambient Noise Level Monitoring  
 Scope of Monitoring : Regulatory Requirement  
 Protocol Used : IS 9989  
 Instrument Used : SLM

Report No. : VTL/N/2409270006/A  
 Format No : 7.8 F-04  
 Party Reference No : NIL  
 Report Date : 07/10/2024  
 Receipt Date : 27/09/2024  
 Sampling Duration : 24 Hrs.  
 Sample Collected : VTL Team  
 Instrument : Calibrated  
 Calibration Status :

**TEST REPORT**

TC-11227

**General Information:-**

Sampling Location : Gate No.-3 (Bhatapara)  
 Instrument Code : VTL/SLM/04  
 Meteorological condition during monitoring : Clear Sky  
 Date of Monitoring : 23/09/2024 To 24/09/2024  
 Time of Monitoring : 06:00 TO 06:00 Hrs.  
 Ambient Temperature (°C) : Min. 27°C Max. 36°C  
 Surrounding Activity : Human, Vehicular & Other Act.  
 Parameter Required : As per work order  
 Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	49.8	38.5

**Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000**

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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# TEST REPORT



TC-11227

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/AN/07

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/N/2409270007/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 07/10/2024  
Receipt Date : 27/09/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

### General Information:-

Sampling Location : Near OHC  
Instrument Code : VTL/SLM/01  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 24/09/2024 To 25/09/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 28°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	49.1	38.4

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

\*\*\*End of Report\*\*\*



Checked by



RK Yadav  
Lab Incharge  
Authorized Signatory



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### Vibrant Techno Lab Pvt. Ltd.

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# TEST REPORT



## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/AN/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Ambient Noise Level Monitoring  
Scope of Monitoring : Regulatory Requirement  
Protocol Used : IS 9989  
Instrument Used : SLM

Report No. : VTL/N/2409270008/A  
Format No : 7.8 F-04  
Party Reference No : NIL  
Report Date : 07/10/2024  
Receipt Date : 27/09/2024  
Sampling Duration : 24 Hrs.  
Sample Collected : VTL Team  
Instrument : Calibrated  
Calibration Status

### General Information:-

Sampling Location : Near Weigh Bridge  
Instrument Code : VTL/SLM/02  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 24/09/2024 To 25/09/2024  
Time of Monitoring : 06:00 TO 06:00 Hrs.  
Ambient Temperature (°C) : Min. 28°C Max. 36°C  
Surrounding Activity : Human, Vehicular & Other Act.  
Parameter Required : As per work order  
Coordinates : --

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	55.2	47.5

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.

2. Night Time is reckoned between 10.00 PM to 6.00 AM.

3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

\*\*\*End of Report\*\*\*



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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/SW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
ChhattisgarhSample Description : SURFACE WATER  
Sampling Location : Mura Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025**TEST REPORT**

TC-11227

ULR No. : TC1122724000002096F  
Report No. : VTLW/2409270011/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.05	-
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	5.6	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	325.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	82.0	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986,Sec.RA 2022	18.38	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA 2019	121.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	112.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	26.0	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	11.45	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.58	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P -38) : 1989, RA 2019	5.2	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	6.1	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	30.0	mg/l
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.2)	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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TEST REPORT



**VIBRANT**

"Experience the unimaginable"  
Sample Number : VTL/SW/01

ULR No. : TC112272400002096F  
Report No. : VTL/W/2409270011/A

S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER

Sampling Location : Mura Pond Water

Sample Collected By : VTL Team

Preservation : Refrigerated

Method of sampling : IS 3025

Report No. : VTL/W/2409270011/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 07/10/2024

Period of Analysis : 27/09/2024-07/10/2024

Receipt Date : 27/09/2024

Sampling Date : 25/09/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr

Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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**VIBRANT***Experience the unimaginable*

Sample Number : VTL/SW/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
ChhattisgarhSample Description : SURFACE WATER  
Sampling Location : Chicholi Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025**TEST REPORT**ULR No. : TC1122724000002097F  
Report No. : VTLW/2409270012/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.22	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	6.9	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	435.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	28.67	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986,Sec.RA 2022	17.32	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA 2019	147.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	108.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	22.6	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	12.54	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.69	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P -38) : 1989, RA 2019	5.2	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	5.0	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	25.0	mg/l
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.2)	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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**VIBRANT**

*"Experience the unimaginable"*

Sample Number : VTL/SW/02

TEST REPORT



TC-11227

ULR No. : TC112272400002097F

Report No. : VTL/W/2409270012/A

S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER  
Sampling Location : Chicholi Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLW/2409270012/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000002098F  
Report No. : VTL/W/2409270013/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : SURFACE WATER  
Sampling Location : Raikheda Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.11	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	4.8	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	425.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	45.2	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec. RA 2022	19.32	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1988, RA 2019	116.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	110.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	28.0	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	9.75	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.39	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P -38) : 1989, RA 2019	6.4	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	8.0	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	40.0	mg/l
15	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.2)	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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TEST REPORT



**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/SW/03

ULR No. : TC112272400002098F

Report No. : VTL/W/2409270013/A

S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER  
Sampling Location : Raikheda Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLW/2409270013/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/04

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER  
Sampling Location : Gaitara Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000002099F  
Report No. : VTL/W/2409270014/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.27	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	5.1	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	421.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	55.6	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986,Sec.RA 2022	18.37	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA 2019	153.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	132.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	23.0	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	18.13	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.59	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P -38) : 1989, RA 2019	6.7	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	7.4	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	32.0	mg/l
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.2)	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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**VIBRANT**

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Sample Number : VTL/SW/04

TEST REPORT



TC-11227

ULR No. : TC1122724000002099F

Report No. : VTLW/2409270014/A

S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

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Sample Number : VTL/SW/04

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER  
Sampling Location : Gaitara Pond Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLW/2409270014/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/SW/05

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
ChhattisgarhSample Description : SURFACE WATER  
Sampling Location : Bangoli Dam  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025**TEST REPORT**ULR No. : TC1122724000002100F  
Report No. : VTL/W/2409270015/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.15	--
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	7.9	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	398.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	57.46	mg/l
5	Sulphate as (SO <sub>4</sub> )	IS: 3025 (P- 24) : 1986, Sec.RA 2022	19.34	mg/l
6	Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (P- 23) : 1986, RA 2019	98.0	mg/l
7	Total Hardness (CaCO <sub>3</sub> )	IS: 3025 (P- 21) : 2009, RA 2019	116.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	32.0	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	8.79	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.48	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P -38) : 1989, RA 2019	5.5	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	8.7	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	40.12	mg/l
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.2)	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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TEST REPORT



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Sample Number : VTL/SW/05

ULR No. : TC1122724000002100F

Report No. : VTLW/2409270015/A

S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

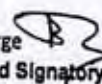
\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/05

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : SURFACE WATER  
Sampling Location : Bangoli Dam  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLW/2409270015/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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TEST REPORT



**VIBRANT**

"Experience the unimaginable"

Sample Number : VTLW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Ash Recovery Water Pump Area  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000002101F  
Report No. : VTLW/2409270016/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.35	--
2	Total Suspended Solids	IS: 3025 (P-17): 2022	39.67	mg/l

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Ash Recovery Water Pump Area  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLW/2409270016/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units
1	Biochemical Oxygen Demand (BOD 3 Days at 27*)	IS :3025, (P-44),2023	6.31	mg/l
2	Chemical Oxygen Demand (COD)	IS :3025, (P-58) 2023	45.26	mg/l
3	Oil & Grease	IS :3025(P-39) 2021	*BLQ**(LOQ-4.0)	mg/l

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Raw Water Area Reservoir  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000002102F  
Report No. : VTLW/2409270017/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units
1	pH value	IS : 3025 (P-11) : 2022	7.52	-
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	7.7	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	487.0	mg/l
4	Chloride (as Cl)	IS : 3025 (P-32) : 1988, RA 2019	62.34	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec.RA 2022	28.67	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA 2019	125.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	162.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	48.0	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	10.26	mg/l
10	Fluoride ( as F)	APHA 23rd Edition, 4500D, 2017	0.47	mg/l
11	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
12	Dissolved oxygen (DO )	IS : 3025 (P -38) : 1989, RA 2019	4.2	mg/l
13	Biochemical Oxygen Demand (BOD) ( 3 days at 27°C)	IS: 3025 (P-44) : 1993, RA : 2019	7.9	mg/l
14	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2006 RA 2017	38.0	mg/l
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	*BLQ(**LOQ-0.1)	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.57	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Lead (as Pb)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.005)	mg/l
20	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l



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TEST REPORT



**VIBRANT**

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Sample Number : VTLW/01

ULR No. : TC112272400002102F

Report No. : VTLW/2409270017/A

S.No.	Test Parameters	Test Method	Results	Units
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l


\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Raw Water Area Reservoir  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTLW/2409270017/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	CU
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
4	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
5	Oil & Grease	IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LOQ-4.0)	mg/l
6	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.02)	mg/l

\*BLQ Blow limit of Quantification \*\*LOQ Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000002086F  
Report No. : VTLW/2409270001/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-01 (Near Raw Water Pump)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.48	-	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO <sub>3</sub> )	IS: 3025 (P-21): 2009, RA 2019	242.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	68.0	mg/l	75	200
5	Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (P-23): 1986, RA 2019	212.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	72.16	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	17.58	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	590.0	mg/l	500	2000
9	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P-24): 1986, RA 2022	29.0	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.62	mg/l	1.0	1.5
11	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P-34): 1988	15.24	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.22	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.27	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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# TEST REPORT



TC-11227

## VIBRANT

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Sample Number : VTLW/01

ULR No. : TC1122724000002086F

Report No. : VTLW/2409270001/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Iodometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2409270001/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 07/10/2024

Period of Analysis : 27/09/2024-07/10/2024

Receipt Date : 27/09/2024

Sampling Date : 25/09/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr

Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-01 (Near Raw Water Pump)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025;(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition .4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTLW/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
 Village- Raikheda, Block- Tilda Raipur 493225  
 Chhattisgarh

Sample Description : Water Sample  
 Sampling Location : Piezometer Well No.-02 (Near Mura Gate)  
 Sample Collected By : VTL Team  
 Preservation : Refrigerated  
 Method of sampling : IS 3025

**TEST REPORT**

TC-11227

ULR No. : TC1122724000002087F  
 Report No. : VTLW/2409270002/A  
 Format No : 7.8 F-01  
 Party Reference No : NIL  
 Report Date : 07/10/2024  
 Period of Analysis : 27/09/2024-07/10/2024  
 Receipt Date : 27/09/2024  
 Sampling Date : 25/09/2024  
 Sampling Type : Grab  
 Sample Quantity : 2 Ltr  
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.41	-	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO <sub>3</sub> )	IS: 3025 (P-21): 2009, RA 2019	236.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	67.0	mg/l	75	200
5	Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (P-23): 1986, RA 2019	198.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	58.0	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	16.73	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	485.0	mg/l	500	2000
9	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P-24): 1986, RA 2022	16.0	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.52	mg/l	1.0	1.5
11	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P-34): 1988	13.24	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.25	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.32	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



  
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# TEST REPORT



## VIBRANT

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Sample Number : VTLW/02

ULR No. : TC1122724000002087F

Report No. : VTLW/2409270002/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Iodometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2409270002/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-02 (Near Mura Gate)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition .4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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**VIBRANT**

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Sample Number : VTLW/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
 Village- Raikheda, Block- Tilda Raipur 493225  
 Chhaltigarh

Sample Description : Water Sample  
 Sampling Location : Piezometer Well No.-03 (Near Ash Recovery Water)  
 Sample Collected By : VTL Team  
 Preservation : Refrigerated  
 Method of sampling : IS 3025

**TEST REPORT**

TC-11227


ULR No. : TC1122724000002088F  
 Report No. : VTLW/2409270003/A  
 Format No : 7.8 F-01  
 Party Reference No : NIL  
 Report Date : 07/10/2024  
 Period of Analysis : 27/09/2024-07/10/2024  
 Receipt Date : 27/09/2024  
 Sampling Date : 25/09/2024  
 Sampling Type : Grab  
 Sample Quantity : 2 Ltr  
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.45	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10):1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO <sub>3</sub> )	IS: 3025 (P-21): 2009, RA 2019	201.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	62.0	mg/l	75	200
5	Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (P-23): 1986, RA 2019	208.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	66.7	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	11.25	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	598.0	mg/l	500	2000
9	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P-24): 1986, RA 2022	22.14	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.59	mg/l	1.0	1.5
11	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P-34): 1988	11.34	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.24	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.30	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



  
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# TEST REPORT



## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/03

ULR No. : TC1122724000002088F

Report No. : VTLW/2409270003/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Iodometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2409270003/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-03 (Near Ash Recovery Water)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"  
Sample Number : VTL/W/04

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000002089F  
Report No. : VTL/W/2409270004/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-04 (Near Wagon Tippler Area)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.42	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO <sub>3</sub> )	IS: 3025 (P-21): 2009, RA 2019	257.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	78.0	mg/l	75	200
5	Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (P-23): 1986, RA 2019	198.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	66.85	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	15.16	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	586.0	mg/l	500	2000
9	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P-24): 1986, RA 2022	25.61	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.59	mg/l	1.0	1.5
11	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P-34): 1988	18.63	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.19	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.33	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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# TEST REPORT



## VIBRANT

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Sample Number : VTL/W/04

ULR No. : TC1122724000002089F

Report No. : VTL/W/2409270004/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

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# TEST REPORT

## VIBRANT

"Experience the unimaginable"  
Sample Number : VTLW/04

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2409270004/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-04 (Near Wagon Tippler Area)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/05

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-05 (Near Old Project Doosan)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000002090F  
Report No. : VTLW/2409270005/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.36	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	156.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	52.0	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	114.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	45.8	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	6.38	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	384.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	12.3	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.12	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	8.64	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.15	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.25	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"  
Sample Number: VTLW/05

ULR No. : TC1122724000002090F

Report No. : VTLW/2409270005/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coll	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

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TEST REPORT

**VIBRANT**  
"Experience the unimaginable"

Sample Number : VTL/W/05

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTL/W/2409270005/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-05 (Near Old Project Doosan)  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification  
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# TEST REPORT



TC-11227

## VIBRANT

"Experience the unimaginable"  
Sample Number: VTLW/06

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000002091F  
Report No. : VTLW/2409270006/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-06 (Near OWC Area (Brick  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.38	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO <sub>3</sub> )	IS: 3025 (P-21): 2009, RA 2019	210.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	58.0	mg/l	75	200
5	Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (P-23): 1986, RA 2019	123.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	26.14	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	15.87	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	395.0	mg/l	500	2000
9	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P-24): 1986, RA 2022	16.38	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.41	mg/l	1.0	1.5
11	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P-34): 1988	14.27	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.20	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.31	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"  
Sample Number: VTLW/06

ULR No. : TC112272400002091F

Report No. : VTLW/2409270006/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/06

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2409270006/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Piezometer Well No.-06 (Near OWC Area (Brick  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"  
Sample Number : VTL/W/07

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000002092F  
Report No. : VTL/W/2409270007/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Mura Hand Pump Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.12	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	345.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	112.0	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	273.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	87.0	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	15.93	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	720.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	58.63	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.02	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	21.38	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.24	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.38	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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# TEST REPORT



TC-11227

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/W/07

ULR No. : TC112272400002092F

Report No. : VTL/W/2409270007/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1988 RA 2019 Iodometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"  
Sample Number : VTLW/07

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2409270007/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Mura Hand Pump Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"  
Sample Number : VTLW/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000002093F  
Report No. : VTLW/2409270008/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Chicholi Tap Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.35	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	227.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	72.0	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	189.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	62.35	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	11.51	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	635.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	20.12	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.24	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	18.67	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.23	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.41	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"  
Sample Number : VTL/W/08

ULR No. : TC112272400002093F

Report No. : VTL/W/2409270008/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"  
Sample Number : VTLW/08

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2409270008/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Chicholi Tap Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"  
Sample Number : VTLW/09

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000002094F  
Report No. : VTLW/2409270009/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Raikheda Tap Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.38	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO <sub>3</sub> )	IS: 3025 (P-21): 2009, RA 2019	215.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	61.0	mg/l	75	200
5	Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (P-23): 1986, RA 2019	177.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	59.34	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	15.26	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	510.0	mg/l	500	2000
9	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P-24): 1986, RA 2022	27.46	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.43	mg/l	1.0	1.5
11	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P-34): 1988	12.69	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.22	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.32	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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TEST REPORT



**VIBRANT**

"Experience the unimaginable"  
Sample Number: VTLW/09

ULR No. : TC112272400002094F

Report No. : VTLW/2409270009/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

*"Experience the unimaginable"*

Sample Number : VTLW/09

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2409270009/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Raikheda Tap Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTLW/10

Name & Address of the Party : M/s ADANI POWER LIMITED  
 Village- Raikheda, Block- Tilda Raipur 493225  
 Chhattisgarh

Sample Description : Water Sample  
 Sampling Location : Village - Gaitara Hand Pump Water  
 Sample Collected By : VTL Team  
 Preservation : Refrigerated  
 Method of sampling : IS 3025

**TEST REPORT**

TC-11227

ULR No. : TC1122724000002095F  
 Report No. : VTLW/2409270010/A  
 Format No : 7.8 F-01  
 Party Reference No : NIL  
 Report Date : 07/10/2024  
 Period of Analysis : 27/09/2024-07/10/2024  
 Receipt Date : 27/09/2024  
 Sampling Date : 25/09/2024  
 Sampling Type : Grab  
 Sample Quantity : 2 Ltr  
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.25	--	8.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	195.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	55.0	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	168.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	24.16	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	14.04	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	348.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	12.10	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.38	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	5.67	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.24	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.36	mg/l	5.0	15.0
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3



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# TEST REPORT



## VIBRANT

"Experience the unimaginable"  
Sample Number : VTLW/10

ULR No. : TC1122724000002095F  
Report No. : VTLW/2409270010/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
20	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
22	Sulphide	IS 3025 (P-29) :1986 RA 2019 Iodometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
23	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
24	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

\*\*\*End of Report\*\*\*



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# TEST REPORT

## VIBRANT

*Experience the unimaginable*  
Sample Number : VTLW/10

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLW/2409270010/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Water Sample  
Sampling Location : Village - Gaitara Hand Pump Water  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit of Quantification

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**VIBRANT**

"Experience the unimpossible"

Sample Number : VTL/SO/01

TEST REPORT



TC-11227

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Raikheda Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

ULR No. : TC112272400000130F  
Report No. : VTL/SO/2409270001/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.82	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.314	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.39	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	95.76	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	302.15	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	148.0	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	239.12	kg/hect.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.65	%
9	Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	152.0	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	212.0	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	39.78	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	28.61	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	37.53	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	4.87	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	2.95	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	12.54	mg/kg

\*BLQ=Below Limit of Quantification,\*\*LOQ=Limit of Quantification

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**VIBRANT**

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TEST REPORT

Sample Number : VTL/S0/01

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Raikheda Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

Report No. : VTL/S0/2409270001/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	35.16	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	3.15	mg/kg
4	Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	--

\*BLQ=Below Limit of Quantification,\*\*LOQ=Limit of Quantification

\*\*\*End of Report\*\*\*



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M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Gaitara Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

ULR No. : TC112272400000131F  
Report No. : VTL/S01/2409270002/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.85	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.295	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.22	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	86.34	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	298.0	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	134.0	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	202.0	kg/hect.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.62	%
9	Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	128.0	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	209.0	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	37.41	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	25.39	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	22.42	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	5.62	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	3.21	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	11.85	mg/kg

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TEST REPORT

Sample Number : VTL/S0/02

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Gaitara Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

Report No. : VTL/S0/2409270002/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	38.46	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	4.15	mg/kg
4	Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	-

\*BLQ=Below Limit of Quantification,\*\*LOQ=Limit of Quantification

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M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Mura Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

ULR No. : TC112272400000132F  
Report No. : VTL/SO/2409270003/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.87	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.276	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.39	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	95.67	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	287.0	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	148.0	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	237.0	kg/hect.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.55	%
9	Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	178.0	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	215.0	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	41.75	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	32.12	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	39.59	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	6.75	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	4.37	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	13.27	mg/kg

\*BLQ=Below Limit of Quantification,\*\*LOQ=Limit of Quantification

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TEST REPORT

Sample Number: VTL/S0/03

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Mura Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

Report No. : VTL/S0/2409270003/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	28.64	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	5.16	mg/kg
4	Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	--

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# TEST REPORT



## VIBRANT

"Experience the unimaginable"  
Sample Number : VTL/S0/04

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

**Name & Address of the Party :**

Sample Description : SOIL  
Sampling Location : Chicholi Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

ULR No. : TC112272400000133F  
Report No. : VTL/S0/2409270004/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.72	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.267	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.42	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	74.18	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	286.0	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	121.34	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	199.0	kg/hect.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.68	%
9	Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	128.0	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	215.0	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	31.25	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	20.54	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	34.81	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	5.48	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	3.58	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	12.63	mg/kg

\*BLQ=Below Limit of Quantification,\*\*LOQ=Limit of Quantification

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TEST REPORT

**VIBRANT**

"Expert Sample Number" VTL/S0/04

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Chicholi Village  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

Report No. : VTL/S0/2409270004/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	25.16	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	3.54	mg/kg
4	Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	--

\*BLQ=Below Limit of Quantification,\*\*LOQ=Limit of Quantification

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**VIBRANT**  
Expert Sample Number

VTU/SO/05

TEST REPORT



TC-11227

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Near Field Hostel Garden  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

ULR No. : TC112272400000134F  
Report No. : VTU/SO/2409270005/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.95	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.321	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.33	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	98.45	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-05	302.0	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	149.62	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	243.0	kg/hect.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.54	%
9	Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-05	185.0	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	249.31	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	40.38	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	32.56	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	41.27	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	6.38	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	5.89	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	11.39	mg/kg

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TEST REPORT

Sample Number : VTL/SO/05

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : SOIL  
Sampling Location : Near Field Hostel Garden  
Sample Collected By : VTL Team  
Parameter Required : As per work order  
Method of sampling : IS 2720

Report No. : VTL/SO/2409270005/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Composite  
Sample Quantity : 2 Kg.  
Packing Status : Temporary Sealed  
Coordinates : NA

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	35.16	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	4.12	mg/kg
4	Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	-

\*BLQ=Below Limit of Quantification, \*\*LOQ=Limit of Quantification

\*\*\*End of Report\*\*\*



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Lab Incharge  
Authorized Signatory

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M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : STP Outlet  
Sample Collected By : VTL Team  
Coordinates : NA

ULR No. : TC1122724000002049F  
Report No. : VTL/WW/2409270001/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.68	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	13.42	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C )	IS: 3025 (P-44): 1993, RA: 2019	10.50	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	48.90	mg/l	250

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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# TEST REPORT



## VIBRANT

"Experience the difference!"  
Sample Number: VTL/WW/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000002052F  
Report No. : VTL/WW/2409270002/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Waste Water  
Sampling Location : STP Inlet  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Result	Unit
1	pH	IS: 3025 (P-11): 2022	7.29	-
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	162.74	mg/l
3	Oil & Grease	IS:3025 (P-39): 2021	25.34	mg/l
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C )	IS: 3025 (P-44): 1993, RA: 2019	66.12	mg/l
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	295.0	mg/l

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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# TEST REPORT



## VIBRANT

"Experience the unimaginable"

Sample Number : VTLWW/02

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

ULR No. : TC1122724000002053F  
Report No. : VTLWW/2409270003/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Waste Water  
Sampling Location : ETP Inlet  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Result	Unit
1	pH	IS: 3025 (P-11): 2022	7.38	-
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	147.0	mg/l
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	39.0	mg/l
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	252.0	mg/l

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/WW/03

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : ETP Outlet  
Sample Collected By : VTL Team  
Coordinates : NA

TEST REPORT



ULR No. : TC1122724000002054F  
Report No. : VTL/WW/2409270004/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.98	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	18.64	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	13.82	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	65.0	mg/l	250

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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# TEST REPORT



TC-11227

## VIBRANT

*"Experience the unimaginable"*

Sample Number : VTL/WW/05

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Inlet Unit-II  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC112272400002055F  
Report No. : VTL/WW/2409270005/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.34	mg/l

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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TEST REPORT

**VIBRANT**

*"Experience the unimaginable"*

Sample Number : VTLWW/05

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLWW/2409270005/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Inlet Unit-II  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Result	Unit
1	Phosphate (as PO4)	IS:3025 (P-31):1988, ( stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/l
2	Other Corrosion Inhibiting Material	APHA 23rd Edition : 2017	ND	mg/l

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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**VIBRANT**

"Experience the difference"

Sample Number: VTLWWW/07

TEST REPORT



TC-11227

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Outlet Unit-II  
Sample Collected By : VTL Team  
Coordinates : NA

ULR No. : TC1122724000002056F  
Report No. : VTLWWW/2409270006/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	0.2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	1.0
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.22	mg/l	0.5

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit Of Quantification

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**VIBRANT**

"Experience the impossible"

Sample Number: VTLWW/07

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Outlet Unit-II  
Sample Collected By : VTL Team  
Coordinates : NA

Report No. : VTL/WW/2409270006/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):1988, ( stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/l	5.0
2	Other Corrosion Inhibiting Material	APHA 23rd Edition : 2017	ND	mg/l	--

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/WW/03

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Waste Water  
Sampling Location : Cooling Water Condenset Inlet unit -II  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

TEST REPORT



TC-11227

ULR No. : TC1122724000002057F  
Report No. : VTL/WW/2409270007/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit
1	pH	IS: 3025 (P-11): 2022	7.29	-
2	Temperature	IS: 3025 (P-9): 1984, RA 2017	22.8	°C
3	Residual Free Chlorine	IS: 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/WW/04

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Water Condenset Outlet unit -II  
Sample Collected By : VTL Team  
Coordinates : NA

TEST REPORT



ULR No. : TC1122724000002058F  
Report No. : VTL/WW/2409270008/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.31	-	6.5 to 8.5
2	Temperature	IS: 3025 (P-9): 1984, RA 2017	27.5	*C	Shall not exceed 5°C above the receiving water temperature
3	Residual Free Chlorine	IS: 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.5

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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**VIBRANT**

*"Experience the unimaginable"*

Sample Number : VTLWW/04

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Inlet Unit-I  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000002059F  
Report No. : VTLWW/2409270009/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA



TC-11227

S.No.	Test Parameters	Test Method	Result	Unit
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.36	mg/l

\*BLQ-Below Limit Of Quantification, \*\*LOQ- Limit Of Quantification

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# TEST REPORT

## VIBRANT

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Sample Number : VTL/WW/04

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Inlet Unit-I  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

Report No. : VTL/WW/2409270009/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit
1	Phosphate (as PO4)	IS:3025 (P-31):1988, ( stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/l
2	Other Corrosion Inhibiting Material	APHA 23rd Edition : 2017	ND	mg/l

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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TEST REPORT



TC-11227

ULR No. : TC112272400002060F  
Report No. : VTL/WW/2409270010/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Parameter Required : As per work order

Sample Number: VTL/WW/06

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Outlet Unit-I  
Sample Collected By : VTL Team  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	0.2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	1.0
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.21	mg/l	0.5

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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"Experience the impossible"  
Sample Number: VTLWWW/06

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Report No. : VTLWWW/2409270010/B  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Parameter Required : As per work order

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Tower Blow Down Outlet Unit-I  
Sample Collected By : VTL Team  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):1988, ( stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/l	5.0
2	Other Corrosion Inhibiting Material	APHA 23rd Edition : 2017	ND	mg/l	--

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

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SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020

9929108691, 9810205356, 8005707098, 9549956601

0141-2954638

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www.vibranttechnolab.com





TEST REPORT



**VIBRANT**

"Experience the unimaginable"

Sample Number : VTL/WWW/01

Name & Address of the Party : M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Sample Description : Waste Water  
Sampling Location : Cooling Water Condenset Inlet unit -I  
Sample Collected By : VTL Team  
Preservation : Refrigerated  
Method of sampling : IS 3025

ULR No. : TC1122724000002061F  
Report No. : VTL/WWW/2409270011/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Sampling Type : Grab  
Sample Quantity : 2 Ltr  
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit
1	pH	IS: 3025 (P-11): 2022	7.29	-
2	Temperature	IS: 3025 (P-9): 1984, RA 2017	23.14	°C
3	Residual Free Chlorine	IS: 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

\*\*\*End of Report\*\*\*



Checked by



RK Yadav  
Lab Incharge  
Authorized Signatory



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Page No. 1/1

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# TEST REPORT



## VIBRANT

"Experience the difference"

Sample Number: VTL/WW/02

M/s ADANI POWER LIMITED  
Village- Raikheda, Block- Tilda Raipur 493225  
Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water  
Sampling Location : Cooling Water Condenset Outlet unit -I  
Sample Collected By : VTL Team  
Coordinates : NA

ULR No. : TC1122724000002062F  
Report No. : VTL/WW/2409270012/A  
Format No : 7.8 F-01  
Party Reference No : NIL  
Report Date : 07/10/2024  
Period of Analysis : 27/09/2024-07/10/2024  
Receipt Date : 27/09/2024  
Sampling Date : 25/09/2024  
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.38	-	6.5 to 8.5
2	Temperature	IS: 3025 (P-9): 1984, RA 2017	27.1	°C	Shall not exceed 5°C above the receiving water temperature
3	Residual Free Chlorine	IS: 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.5

\*BLQ-Below Limit OF Quantification, \*\*LOQ- Limit Of Quantification

\*\*\*End of Report\*\*\*



Checked by



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## Chapter-5

## CONCLUSION

M/s Adani Power Limited., authorities have been taken successful steps in controlling environmental pollution in and around the project. This fact is clear from analytical results of different environmental parameters. A brief conclusion is as follows:

S.No	Environment Parameters	Conclusion
1.	Air Environment	After analysis of the samples from seven different Location it is observed that both the individuals and average concentration of air polletants in respect of SO <sub>2</sub> , NO <sub>2</sub> , PM <sub>10</sub> , PM <sub>2.5</sub> , CO and Mercury are well within the prescribed limits of NAAQM standard. People of township and of surrounding villages do not have any problems regarding the air quality and have no grievances because of Thermal Power Plant activities.
2.	Noise Environment	The observations taken at 8 different locations during day and night time the noise level is well within prescribed limits of CPCB. Hence there is no possibility of any adverse effect of noise generated due to Thermal Power Plant activities on peoples of Surrounding areas.
3.	Water Environment	The Analytical result of the samples from the ground water of vaillages, surface water from river, and domestic & industrial effluent after treatment shows that the concentrations of different water parameters are well within prescribed limits and will not cause any adverse impact on human health and on surrounding area. People of surrounding areas express satisfaction about the water quality of that area.

All the above details show that Thermal Power Plant of M/s Adani Power Limited is not causing any adverse impact on the human health and ecological balance.

**Annexure II**

**Rainwater Harvesting Pond -1**

<b>Name of Structure</b>	<b>Length (In Mtr)</b>	<b>Width (In Mtr)</b>	<b>Depth (In Mtr)</b>	<b>Total Area (In M<sup>3</sup>)</b>
Recharge Pond -1	70	55	10	38500

**Rainwater Harvesting Pond -2**

<b>Name of Structure</b>	<b>Length (In Mtr)</b>	<b>Width (In Mtr)</b>	<b>Depth (In Mtr)</b>	<b>Total Area (In M<sup>3</sup>)</b>
Recharge Pond -2	48	46	10	22080





### List of Pollution Control Equipment/Devices

Sr. No.	Plant Activities	Pollution Control Measures
1	Coal Yard	Dust Suppression System
2	Coal Handling system: <ul style="list-style-type: none"> <li>• Wagon Tippler</li> <li>• Crusher House</li> <li>• Coal Bunker</li> <li>• Coal Transfer House</li> </ul>	Dust Suppression System Dust Extraction & Dry fog diffusion systems Dust Extraction System Dry Fog diffusion system
3	Boilers	Electrostatic Precipitators (ESPs)
4	DM Plant	ETP & Neutralization Pit.
5	Domestic Effluent	Sewage Treatment Plant (STP)
6	Fly Ash Storage Silos	Dust Extraction System (Bag Filters)
7	Fly Ash & Bottom Ash Disposal	Ash Pond /Dyke
8	Vehicle Movement	Concrete Road & Road Sweeping Water Sprinkling System in Ash Dike Area.
9	Dispersion of Emission	275 m Height Chimney
10	Reduction of Gaseous Emission	Low NOx Burners FGD for SO <sub>2</sub> removal (proposed)
11	Flue Gas Desulphurization System (FGD)	As per MoEF&CC's Notification dated 31st March 2021, Raipur TPP is falling under Category "C" Non- retiring TPPs and the timelines for compliance of SO <sub>2</sub> emission is up to December 2026. Accordingly, the work is under progress

**Fly Ash Generation & Utilization Details - Apr. 2024 to Sep. 2024**  
**Adani Power Limited, Raipur**

Sl. No.	Ash Generation and Utilization (in MT)						Mode of Ash Utilization and Utilization in each Mode (in MT)				
	Month	Fly Ash Generation	Bottom Ash Generation	Total Ash Generation	Ash Utilization	% age Utilization	In making of Fly Ash based Bricks / Blocks / Tiles etc.	In construction of Portland Pozzolana Cement	In construction of Highways & Roads including Flyovers	In Reclamation of Low Lying Area	In Mine Filing
1	Apr-24	183843	45961	229804	231437	100.71	1361	114131	954	66804	48186
2	May-24	197033	49258	246291	238367	96.78	1354	96261	1525	98295	40933
3	Jun-24	204808	51202	256010	262436	102.51	1472	100254	1050	103392	56268
4	Jul-24	207584	51896	259480	272395	104.98	2006	66842	459	151711	51377
5	Aug-24	178273	44568	222841	223467	100.28	2846	52653	531	113486	53950
6	Sep-24	166150	41538	207688	212200	102.17	1924	52176	322	113474	44304
<b>TOTAL</b>		<b>1137691</b>	<b>284423</b>	<b>1422114</b>	<b>1440302</b>	<b>101.28</b>	<b>10963</b>	<b>482318</b>	<b>4840</b>	<b>647162</b>	<b>295018</b>



**REPORT ON “MONITORING AND  
EVALUATION OF PLANTATION”  
AT**

**M/S ADANI POWER LIMITED**

*Village - Raikheda, Block - Tilda, Raipur - 493225 (C.G.)  
Year - September 2023*



**“NAV AASTHA JAN VIKAS SEVA SAMITI”**

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## WHO WE ARE?

**NAV AASTHA JAN VIKAS SEVA SAMITI** is a registered NGO under societies registration act. 1973 of Indian constitution, registered on 07<sup>th</sup> April 2005 at Raipur (C.G.). The working area of the organization is whole Chhattisgarh. Our main focus is towards the youth development as well as women and child empowerment of the state.



We have been working continuously in betterment of the people of Chhattisgarh (*chhattisgarhiya*) in educational, physical and many more sectors by the help of schemes of govt. The organization works under many schemes of the respectable govt. like - **Green India Mission (GIM), Bio-diversity Program, Integrated Watershed Management Program (IWMP), SGSY, SHG forming, JFMC** and many more. We are also engaged in **Monitoring and Evaluation** of plantations of government entities as well as private entities. We are also enlisted for the monitoring and evaluation of various entities working in Chhattisgarh by PCCF, Raipur under the ministry of Environment and Forest GoCG.

*“New challenges new innovations.....”*

# CENTRAL POLLUTION CONTROL BOARD

The **Central Pollution Control Board (CPCB)**, statutory organization, was constituted in September, 1974 under the Water (Prevention and Control of Pollution) Act, 1974. It also provides technical services to the Ministry of Environment and Forests of the provisions of the Environment (Protection) Act, 1986.



CPCB along with its counterparts **State Pollution Control Boards (SPCBs)** are responsible for implementation of legislations relating to prevention and control of environmental pollution.

The Central Pollution Control Board (CPCB) and the Ministry of Environment and Forests (MoEF) have guidelines for green belt development. The guidelines state that **33% of the total land area should be kept as greenbelt**. The greenbelt should be developed along the boundary by planting tall, evergreen trees.

The guidelines also state that:

- The species selected should be capable of **growing fast, wind firm, and long lived**.
- The **width** of the 3 tier green belt should vary from **15m to 100m** depending on the type of project.
- The **density** of the green belt should be in the range **1500 to 2500 plants per ha**.
- The green belt species should be **native species**.
- Certain species of plants can **absorb pollutants** while others can **thrive** in polluted atmosphere.



# INTRODUCTION TO GREENBELT DEVELOPMENT

For India's industrial and other developmental operations, environmental protection has been prioritized. The **Ministry of Environment & Forests (MoEF)** has advocated for the inclusion of environmental considerations in the development of projects through a number of policy & measures. According to the terms of the **Environment (Protection) Act of 1986**, one such initiative is the notification on **Environmental Impact Assessment (EIA)** of developmental projects, which was first issued in 1994 and then updated in 2006. Greenbelts are proactively discussed in the EIA Guidance Manual for building, construction, township, and area development projects.



The term "greenbelt" refers to a boundary established beyond of which industrial development is prohibited. Greenbelts are now present not only for the purpose of protecting sensitive areas to maintain ecological balance but are also found in urban areas so as to act as a sink for the harmful gases released by vehicles and industries operating in the city area. This idea has evolved through a long line of cases. The Central Pollution Control Board has created extensive Guidelines for Developing Greenbelts in this regard [Refer Probes/75/1999-2000].

The establishment of green belts is advantageous in many ways, contributing to biodiversity preservation, soil moisture retention, ground water recharging, and sustaining the region's pleasant microclimate. Additionally, the plants in a green belt can absorb environmental toxins and aid in efficient pollution control.

Green belts are designed open spaces that are protected against construction of new structures, factories, dams, etc. Safeguarded in the sense that only vegetation growth will be permitted on such designated locations, and no infrastructure development will be permitted there. The ecological health of any particular region depends on the presence of green belts in and around urban and industrial regions.

According to MoEF prerequisites, tall, evergreen trees must be planted all along the boundary to create a greenbelt. The overall green area, including the landscaping area, will make up 1/3<sup>rd</sup> (or around 33%) of the plant area. This will contain a lay-down space that will thereafter become a green area. Two rows of tall, evergreen plants must be planted at a rate of 600–1000 per Acre (1500–2500 per Hectare),

depending on the size, activity, and environmental effects of the industry; the amount of land available; and the agro-climatic conditions. Plants should be spaced apart from one another by around 10 meters for the road side. Trees having a lot of branches and a canopy, such as peepal, banyan, kadamb, neem, and Conocarpus lancefolius, should be grown as these kinds of avenue trees. Plantations must use gathered rainwater and treated effluent water.

A list of plants suitable for greenbelt and to the local agro climatic conditions is given in Table below:

S.No	Botanical Name	Family	Common Name	Habitat	Height (m)
1.	<i>Acacia auriculiformis</i> <i>A.cunn</i>	Mimoseae	Australian Wattle	Tree	16
2.	<i>Acacia nilotica</i> (Linn) <i>Wild</i>	Mimoseae	Indian gum	Tree	8
3.	<i>Albizia lebeck</i> Benth	Mimoseae	Sirisha		15
4.	<i>Anthocephalus chinensis</i> (Lamk.)	Rubiaceae	Kadambama	Tree	20
5.	<i>Azadirachta indica</i>	Meliaceae	Neem	Tree	20
6.	<i>Bambusa arundinacia</i> (Retz)Roxb	Poaceae	Thorny Bamboo	Shrub	20
7.	<i>Bambusa vulgaris</i> Schrad	Poaceae	The Golden Bamboo	Shrub/ Tree	15
8.	<i>Bauhinia purpurea</i> Linn	Caesalpinaceae	Butterfly tree	Tree	7
9.	<i>Bauhinia varigata</i> Linn	Caesalpinaceae	Budhist bauhinia	Tree	5
10.	<i>Cassia fistula</i> Linn	Caesalpinaceae	Golden showers	Tree	12
11.	<i>Citrus aurantium</i> Linn	Rutaceae	Citrus tree	Tree	5
12.	<i>Cocos nucifera</i> Linn	Arecaceae	Coconut tree	Tree	15
13.	<i>Delonix regia</i> (Boijer) <i>Rafin.</i>	Caesalpinaceae	Flame tree	Tree	15
14.	<i>Emblica officinalis</i> Gaertn.	Euphorbiaceae	Gooseberry	Tree	5
15.	<i>Eucalyptus citriodora</i> <i>Hook</i>	Myrtaceae	Lemon scented gum	Tree	20
16.	<i>Ficus benghalensis</i> Linn	Moraceae	Banyan tree	Tree	20
17.	<i>Ixora undulate</i>	Rubiaceae	Ixora	Tree	6
18.	<i>Madhuca longifolia</i> (Koen)	Sapotaceae	The butter tree	Tree	15
19.	<i>Mangifera indica</i> Linn	Anacardiaceae	Mango tree	Tree	15
20.	<i>Nerium indicum</i>	Apocynaceae	Pink oleander	Shrub	5
21.	<i>Peltophorum</i> <i>pterocarpum</i>	Caesalpinaceae	Copper pod tree	Tree	20
22.	<i>Polythia longifolia</i>	Anonaceae	Ashoka tree	Tree	20
23.	<i>Terminalia catappa</i>	Combretaceae	The Indian almond	Tree	10



## REGULATIONS FOR GREENBELT DEVELOPMENT

Environmental Guidelines for Industries, created by the MoEF, recommend corporations undertake environmental protection seriously and work to reduce the negative effects of their operations both locally and beyond. As a result, these regulations require project owners to keep certain distances between their companies and places like ecologically sensitive areas, coastal areas, flood plains of riverine systems, transportation and communication systems, and major settlements.

These rules also require that, when citing industry, economic and social factors be acknowledged and evaluated. The following are the main guidelines that all industries must adhere to when establishing manufacturing or processing facilities in specific locations. which are;

1. No forest land shall be converted into non-forest activity for the sustenance of the industry.
2. No prime agricultural land shall be converted into industrial site.
3. Within the acquired site the industry must locate itself at the lowest location to remain obscured from general sight.
4. Land acquired shall be sufficiently large to provide space for appropriate treatment of waste water still left for treatment after maximum possible reuse and recycle. Reclaimed (treated) wastewater shall be used to raise **green belt** and to create water body for aesthetics, recreation and if possible for aquaculture. **The green belt shall be 1/2 km wide around the battery limit of the industry. For industry having odour problem it shall be a kilometer wide.**
5. **The green belt between two adjoining large scale industries shall be one kilometer.**
6. Enough space should be provided for storage of solid wastes so that these could be available for possible reuse.
7. Lay out and form of the industry that may come up in the area must conform to the landscape of the area without affecting the scenic features of that place.
8. Associated township of the industry must be created at a space having physiographic barrier between the industry and the township.
9. Each industry is required to maintain three ambient air quality measuring stations within 120 degree angle between stations.

**Environment Management Plan (EMP)** prepared by **MoEF** mandates that community buildings and townships should build 1-1.5 kilometer of greenbelt. This is suggested to restrict air and noise pollution in the vicinity.

As per the stipulations of MoEF, **green belt is to be provided all around the power station boundary by planting trees** and the total green area including landscaping area will be 1/3<sup>rd</sup> (About 33%) of the plant area. This will include Lay down area which will be later on converted into Green area.

In India, there is no exclusive green belt regulation/policy. However, under the purview of other regulations such as Environmental Guidelines for Industries, Environment Management Plan, National Forest Policy, Forest Conservation Act, etc; certain percentage of land designated for green belts is recommended for different categories of industrial projects. Expansion of agricultural, urban and industrial activities are causing additional burden on natural resources. Industrial development is causing severe health hazards due the exceeded level of pollution. Green belt not only restrict environmental pollution but it helps to maintain the ecological balance of the region.



## PROVISION OF GREENBELT FOR INDUSTRIES

Adequate greenery in industrial establishment helps in creating better environment in many ways:

1. It provides a sylvan surrounding to improve the aesthetical conditions which, in turn, improve the working condition of the workers.
2. Tall trees attract birds to roost and also provide shelter to small creatures like squirrel, snakes etc. thus biodiversity is restored.
3. A properly designed green belt of adequate width acts as a filter of our pollutants for outside. Fugitive emissions are mainly controlled by the green belt.
4. Plantation of pollution indicating species at strategic locations can indicate the air pollution status of the area. These plant species are sensitive to air pollutants. Such species serves as "bio indicators".
5. Green belt acts as a noise barrier for outside.
6. Treated waste water of an industry is always recommended for maximum utilization within the premises. If the waste water is used for irrigation of green belt and other plantation within, the objective is partially achieved.

# PLANNING OF GREENBELT

Planting of green belt requires the following considerations:-

1. Choice of the species
2. Design of the belt
3. Width of belt

Choice of the plants species depends upon the nature of fugitive gaseous pollutants coming from the industries. Obviously those plants should be resistant to the pollutants. Besides, trees with large crown are preferred because they served as a good barriers for particulate and gaseous emissions. In between the resistant, species and within the industrial premises, some strategic locations as these species indicate the status of pollution.

The design of the greenbelt should be such that it should form an effective shield against pollutants to outside. A three tier plantation of small medium and large size plants can achieve the same. Typical 50 m width green belt may have 3 layers may consist of bushes (small tree). The inner layer may have large tree with good crown and under growth. The middle layer in between can have bushes and shrubs (small and medium size tree).

The width of the green belt should be carefully & judiciously decided; because of the cost of the land there is always a demand from the industry to a narrow belt. Ideally the width should be such to have maximum attenuation. The attenuation factor can be expressed as :

$$AF = \frac{\text{Pollution level at a point a just outside without the greenbelt}}{\text{Pollution level at a with the green belt}}$$

The attenuation factor for a well-designed green belt attains a limiting value after a certain width and becomes more effective with the increasing height at trees. For the green belt, with Indian trees species (tropical forest species) longer width may not be necessary for maximum attenuation.

Generally for a large industry, a belt width of 150 – 200 mtrs may be adequate but these can be increased where pollution level is high. For a less polluting industry, a belt less than 150 mtr can also do.



The design and nature of green belts will vary according to the place and the type of industry. Some of the factors which influence the design of green belts are-

- Climatic factors such as wind velocity, temperature, rainfall, sunlight, humidity etc.
- Assimilation capacity of the ecosystem.
- Height and canopy of trees.
- Topography.
- Size of land available.
- Distance from source.
- Soil and Water quality.
- Nature and extend of pollutants.

## ADVANTAGES OF GREENBELTS

- **Noise control-** A green belt reduces the intensity of sound. Function as a barrier. Trees can either deflect, refract or may absorb sound to reduce its intensity. The intensity reduction depends on the distance sound has to travel from source. Trees can also modify suitably the humidity and climate which affects sound intensity.
- Help in **soil erosion control**. Plant species help in improving soil quality and bind soil particles thereby preventing erosion. Green belts also help in containing water run offs.
- **Climate Control**
- **Air Pollution control-** Trees help in removing carbon dioxide and other pollutants from air and by release of oxygen into the air thereby improving air quality. A green belt development can also help in removing particulate matter from the air by trapping such particulate matter.
- **Water Pollution control-** Some species can remove some pollutants from water. Example- copper absorbed by *Chlorella vulgaris* and Scandium buy *Astragalas*, zinc by *Typhalatifolia*, chromium by *Salvinianudans*.



# PLANT'S LAYOUT



# PLANTATION REPORT

## Name of Unit - Adani Power Limited, Raikheda Green Zone Details Upto 31.08.2023

Sr. No.	Green Zone	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm (No.)
1	90/1	Main gate, Hostel premises, Chemistry, Fire, Stores, SY, CHP premises.	2.88	1800	Dalbergia sisoo (Sisum)	0	0	0
			1.920	1200	Azadiracta indica (Neem)	0	0	0
			2.240	1400	Peltophorum	0	0	0
			0.480	300	Delonix regia	0	0	0
			0.192	120	Tamarindus indica	0	0	0
			0.108	120	Phyllanthus emblica	0	0	0
			0.027	30	Eagal marmelose	0	0	0
			0.083	52	Ficus religiosa	0	0	0
			0.077	48	Ficus bengalensis	0	0	0
			2.688	1680	Pongamia pinnata	0	0	0
			2.400	1500	Cassia siamia	0	0	0
			0.499	312	Callistemon (Bottle Brush)	0	0	0
			0.736	460	Mangifera indica	0	0	0
			0.960	600	Cassia fistula	0	0	0
			0.154	96	Ashoka pendula	0	0	0
			0.17	0	Palm	0	0	106
			0.16	0	Shrubs	1600	0	0
			0.12	0	Lawn	0	1200	0
0.15	0	Pots	1500	0	0			
<b>2020-2021</b>			<b>16.04</b>	<b>9718</b>		<b>3100.00</b>	<b>1200.00</b>	<b>106.00</b>
2	90/2	Hostel Premises	0.150	60	Ficus religiosa	0	0	0
			0.150	60	Ficus bengalensis	0	0	0
			4.500	1800	Azadiracta indica (Neem)	0	0	0
			4.500	1800	Cassia fistula	0	0	0
			1.920	1200	Delonix regia	0	0	0
			1.280	800	Mimusoaps illengii	0	0	0
			0.064	40	Ashoka pendula	0	0	0



**Name of Unit - Adani Power Limited, Raikheda  
Green Zone Details Upto 31.08.2023**

Sr. No.	Green Zone	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm (No.)
			0.000	0	Plam	0	0	0
			0.000	0	Lawn	0	0	0
			0.000	0	Shrubs	0	0	0
			0.030	0	Pots	300	0	0
			<b>12.594</b>	<b>5760</b>		<b>300</b>	<b>0</b>	<b>0</b>
3	90/3	Fire building to Technical building.	0.544	0	Lawn	0	5441	0
			0.002	0	Cycus Palm	0	0	16
			0.001	0	Fox Tail Palm	0	0	12
			0.001	0	Royal Palm	0	0	8
			0.001	0	Phoenix Palm	0	0	12
			0.001	0	Coconut Palm	0	0	12
			0.002	0	Plueria Red	0	0	20
			0.128	0	Shrubs	1280	0	0
			0.007	0	Hedges	70	0	0
			<b>0.687</b>	<b>0</b>		<b>1350</b>	<b>5441</b>	<b>80</b>
4	90/4	Nursery Development (Capacity: 144000 Number Saplings incl. all species)	0.250	100	Mangifera indica	0	0	0
			0.150	60	Sapota	0	0	0
			0.150	60	Psidium guavajava	0	0	0
			0.150	60	Lemon	0	0	0
			0.170	68	Azadiracta indica (Neem)	0	0	0
			0.075	30	Pongamia gabra	0	0	0
			0.075	30	Delonix regia	0	0	0
			0.075	30	Cassia fistula	0	0	0
			0.189	210	Cono carpus	0	0	0
			0.150	60	Mimusoaps illengii	0	0	0
			0.063	210	Ashoka pendula	0	0	0
			0.030	12	Eagal marmelose	0	0	0
			0.030	12	Ficus religiosa	0	0	0
			0.030	12	Ficus bengalensis	0	0	0
0.006	0	Seasonal Flower Beds	60	0	0			

**Name of Unit - Adani Power Limited, Raikheda  
Green Zone Details Upto 31.08.2023**

Sr. No.	Green Zone	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm (No.)
			0.030	0	Seasonal Pots	300	0	0
			0.030	0	Ornamental Pots	300	0	0
			0.120	0	Ornamental Shrubs	1200	0	0
			<b>1.773</b>	<b>954</b>		<b>1860</b>	<b>0</b>	<b>0</b>
		<b>2021-2022</b>	<b>15.05</b>	<b>6714.00</b>		<b>3510.00</b>	<b>5441.00</b>	<b>80.00</b>
5	90/5	Plantation at Nursery and CHP surrounding area.	0.17	12	Ficus religiosa	0	0	0
			0.17	12	Ficus bengalensis	0	0	0
			0.10	41	Conocarpus	0	0	0
		Plantation at Guest House Premises.	0.08	50	Mimusoaps illengii	0	0	0
			0.08	50	Pongamia pinnata	0	0	0
			0.08	50	Azadirachta indica	0	0	0
		Stacker - I South	0.02	80	Conocarpus	0	0	0
		Nursery Surrounding	0.04	24	Anthocephalus cadamba	0	0	0
			0.04	24	Cassia fistula	0	0	0
			0.04	24	Mimusoaps illengii	0	0	0
			0.04	24	Delonix regia	0	0	0
		Phillips yard premises	0.01	6	Ficus bengalensis	0	0	0
		CSR area	0.01	8	Mimusoaps illengii	0	0	0
		Phillips Workshop back side	0.14	360	Tectona grandis	0	0	0
		Brick Plant approach and surrounding	0.07	186	Tectona grandis	0	0	0
		Guest House Premises	0.05	120	Tectona grandis	0	0	0
		Guest House Premises	0.01	34	Tectona grandis	0	0	0
		Guest House Premises periphery	0.04	100	Tectona grandis	0	0	0
		Scrap yard to NDCT internal road side.	0.09	213	Tectona grandis	0	0	0
		Scrap yard to NDCT internal road side.	0.20	500	Tectona grandis	0	0	0
Helipad & Scrap yard between area	0.78	1940	Tectona grandis	0	0	0		
CHP: WTP & Phillips office between area	0.58	1460	Tectona grandis	0	0	0		



**Name of Unit - Adani Power Limited, Raikheda  
Green Zone Details Upto 31.08.2023**

Sr. No.	Green Zone	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm (No.)
			<b>2.84</b>	<b>5318</b>		<b>0</b>	<b>0</b>	<b>0</b>
6	90/6	CWPH & SYCR Between area.	0.10	0	Lawn Carpet	0	1000	0
			0.00	0	Phoenix Palm	0	0	5
			0.00	0	Cycus palm	0	0	10
			0.00	0	Furcaria	2	0	0
			0.0240	60	Putranjeeva	0	0	0
			0.0064	16	Casuarina	0	0	0
			0.0128	32	Delonix regia	0	0	0
			0.03	86	Mahogany	0	0	0
			0.10	62	Bauhinia blackiana	0	0	0
			0.10	62	Cassia fistula	0	0	0
			0.21	132	Conocarpus	0	0	0
			0.01	0	Hedge Plantation	132	0	0
			0.00	0	Group Plantation	48	0	0
0.00	0	Road side FRP Parrot Green colour pots.	46	0	0			
			<b>0.61</b>	<b>450</b>		<b>228</b>	<b>1000</b>	<b>15</b>
7	90/7	Main Security Gate Entrance / Friendship park.	0.012	0	Lawn Carpet	0	120	0
			0.001	0	Hedge Plantation	12	0	0
			0.001	0	Group Plantation	12	0	0
			0.048	0	Lawn Carpet	0	484	0
			<b>0.0628</b>	<b>0</b>		<b>24</b>	<b>604</b>	<b>0</b>
8	90/8	All internal approach roads of plant premises. (Murum Roads available in Natural Jungle)	<b>2.9472</b>	<b>7368</b>	Teak	<b>0</b>	<b>0</b>	<b>0</b>
9	90/9	Precision Workshop surrounding.	<b>0.1440</b>	<b>90</b>	Bauhinia blackiana, Ficus bengalensis, Swietenia macrophylla, Azadirachta indica, Pongamia pinnata, Delonix regia Mixed plants Each 15 No.	<b>0</b>	<b>0</b>	<b>0</b>
10	90/10	AWRS	0.0888	222	Mahogany	0	0	0
			0.0712	178	Conocarpus	0	0	0

**Name of Unit - Adani Power Limited, Raikheda  
Green Zone Details Upto 31.08.2023**

Sr. No.	Green Zone	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm (No.)
			0.6204	22	Bauhinia blackiana	0	0	0
			0.7332	26	Cassia fistula	0	0	0
			1.4100	50	Casuarina	0	0	0
			0.0022	0	Group Plantation	22	0	0
			0.0042	0	Palm (Bottle Palm)	0	0	42
			0.0012	0	Hedges	12	0	0
			0.0098	0	Lawn	0	98	0
			<b>2.9410</b>	<b>498</b>		<b>34</b>	<b>98</b>	<b>42</b>
<b>11</b>	90/11	Safety Park	0.4124	1031	Mixed Plantation (Mahogany, Conicarpus, Ficus Black, Cassia fistula, Delonix regia, Bauhinia blackiana)	0	0	0
			0.0096	0	Group Plantation	96	0	0
			0.0120	0	Palm	0	0	120
			0.0036	0	Hedges	36	0	0
			0.1463	0	Lawn (Instant 663 + Dibbling 800)	0	1463	0
			<b>0.5839</b>	<b>1031</b>		<b>132</b>	<b>1463</b>	<b>120</b>
<b>12</b>	90/12	Security main Gate to CSR premises, Safety park back side and Hostel premises.	0.0864	54	Mahogany	0	0	0
			0.0032	2	Bauhinia blackiana	0	0	0
			0.0032	2	Cassia fistula	0	0	0
			0.0544	34	Delonix regia	0	0	0
			0.0272	17	Ficus black	0	0	0
			0.0544	34	Avelandea	0	0	0
			0.0592	37	Sizizium cumini	0	0	0
			0.0151	0	Group Plantation	151	0	0
			0.0056	0	Palm (Bottle Palm)	0	0	14
			0.0022	0	Erika palm	0	0	11
			0.0087	0	Hedges	87	0	0
			0.6499	0	Lawn	0	6499	0
			<b>0.9695</b>	<b>180</b>		<b>238</b>	<b>6499</b>	<b>25</b>
<b>13</b>	90/13	Helipad Ground	0.0028	7	Casuarina	0	0	0



**Name of Unit - Adani Power Limited, Raikheda  
Green Zone Details Upto 31.08.2023**

Sr. No.	Green Zone	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm (No.)
			0.0896	896	Conocarpus	0	0	0
			0.0340	0	Bottle Palm	0	0	34
			0.0340	34	Bogunvellia	0	0	0
			0.6000	0	Washingtonia ff	0	0	300
			0.0000	0	Hedge	79	0	0
			0.0000	0	Lawn	0	9623	0
			<b>0.7604</b>	<b>937</b>		<b>79</b>	<b>9623</b>	<b>334</b>
		<b>2022-2023</b>	<b>11.7987</b>	<b>15872</b>		<b>711</b>	<b>18683</b>	<b>536</b>
<b>14</b>	90/14	WTP	0.2704	169	Plumeria & Pulchurima	0	0	0
			0.0272	17	Casuarina	0	0	0
			0.0192	12	Putranjeeva	0	0	0
			0.1376	0	Washingtonia ff	0	0	86
			0.0320	40	Bogunvellia	0	0	0
			0.0200	50	Mahogany	0	0	0
			0.0160	0	Group plantation. (Ornamental Spp.)	160	0	0
			0.0107	0	Hedge	107	0	0
			0.5430	0	Lawn	0	5430	0
			<b>1.0761</b>	<b>288</b>		<b>267</b>	<b>5430</b>	<b>86</b>
<b>15</b>	90/15	NDCT Central and North.	0.3840	0	Washingtonia ff	0	0	240
			0.0156	0	Hedge	156	0	0
			1.3913	0	Lawn	0	13913	0
			<b>1.7909</b>	<b>0</b>		<b>156</b>	<b>13913</b>	<b>240</b>
<b>16</b>	90/16	NDCT Central and South.	0.0072	0	Cycus palm / Phoenix Palm.	0	0	18
			0.1920	480	Mixec plants(Bauhinia, A. indica, Mahogany, Putranjeeva, Bakul, Delonix, Cassia fistula)	0	0	0
			1.2061	0	Lawn	0	12061	0
			0.0480	30	Washingtonia ff	0	0	30
			0.0186	0	Hedge	186	0	0

**Name of Unit - Adani Power Limited, Raikheda  
Green Zone Details Upto 31.08.2023**

Sr. No.	Green Zone	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm (No.)
			0.0098	0	Ornamental Group plantation.	98	0	0
			<b>1.4817</b>	<b>510</b>		<b>284</b>	<b>12061</b>	<b>48</b>
<b>17</b>	90/17	Guesthouse area	0.004	40	conocarpus	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
			0.009	93	Delonix regia (mini)	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
			0.002	16	Bauhinia blakeana	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
			0.001	6	Mahogany	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
			0.002	15	Ashoka pendula	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
			<b>0.017</b>	<b>170</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>18</b>	90/18	Zone A and others	0.47	4740.00	Teak wood	0.00	0.00	0.00
			0.13	1280.00	Mohogany	0.00	0.00	0.00
			0.05	460.00	Arjuna	0.00	0.00	0.00
			<b>0.65</b>	<b>6480.00</b>				
<b>19</b>	90/19	Zone A, B and Old project office side, loko side	0.077	773	conocarpus	0.00	0.00	0.00
			0.004	35	Gulmahor	0.00	0.00	0.00
			0.007	72	Baunia	0.00	0.00	0.00
			0.004	35	Amaltas	0.00	0.00	0.00
			0.106	1060	Anjan	0.00	0.00	0.00
			0.004	39	Bouganvalia	0.00	0.00	0.00
			0.004	44	Ashoka	0.00	0.00	0.00
			0.144	1440	Teak	0.00	0.00	0.00
			0.010	98	Jamun	0.00	0.00	0.00
			0.001	9	Casurina	0.00	0.00	0.00
			0.005	53	Kadam	0.00	0.00	0.00
			<b>0.397</b>	<b>3967</b>				
<b>20</b>	90/20	ZoneA, Zone B and Zone C	0.014	139	Ashoka	0.00	0.00	0.00
			0.002	20	Bottle Brush	0.00	0.00	0.00
			0.002	23	Royal Palm	0.00	0.00	0.00
			0.004	42	Casuarina	0.00	0.00	0.00
			0.004	40	Fox Tail Palm	0.00	0.00	0.00



**Name of Unit - Adani Power Limited, Raikheda  
Green Zone Details Upto 31.08.2023**

Sr. No.	Green Zone	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm (No.)
			0.054	540	Conocarpus	0.00	0.00	0.00
			0.005	53	Kadam	0.00	0.00	0.00
			0.022	216	Bahunia blackinia	0.00	0.00	0.00
			0.017	167	Putranjeeva	0.00	0.00	0.00
			0.013	126	Anjan	0.00	0.00	0.00
			0.008	80	Mohogany	0.00	0.00	0.00
			0.002	18	Bouganvalia	0.00	0.00	0.00
			<b>0.146</b>	<b>1464</b>				
21	90/21	ZoneA, Zone B and Zone C	0.003	25	Ashoka			
			0.000	4	Royal Palm			
			0.004	37	Fox Tail Palm			
			0.000	3	Fish tail palm			
			0.010	99	Fox Tail Palm			
			0.001	6	Black ficus			
			0.015	150	Arjuna			
			0.015	150	Karanj			
			<b>0.047</b>	<b>474</b>				
		<b>2023-24 till Sep 2023</b>	<b>5.60</b>	<b>13353</b>		<b>707.00</b>	<b>31404.00</b>	<b>374.00</b>
<b>Total (2000- till 30.09.2023)</b>			<b>48.50</b>	<b>45657</b>		<b>8028.00</b>	<b>56728.00</b>	<b>1096.00</b>

<b>Details of Plantation (Adani Power Ltd., Raipur)</b>				
<b>Sr. No.</b>	<b>Description of Area</b>	<b>Hectare</b>	<b>Area in Acre</b>	<b>Total no. of Plants/Saplings</b>
<b>Natural Forest &amp; Plantation done during Project State (till FY: 2017)</b>				
1	Garden outside main gate	1.00	2.47	2500
2	Near Main Gate	0.10	0.25	250
3	Left side of Road to Hostel Indravati	0.40	0.99	1000
4	Right side of Road to Hostel Indravati	10.00	24.71	25000
5	South side of SEW Batching plant area	4.00	9.88	10000
6	Near Gammon Batching plant area	1.50	3.71	3750
7	Left side of the main road near Rain water Harvesting pond	30.00	74.13	75000
8	Near Simplex Batching plant area	1.00	2.47	2500
9	Near Ion Exchange Batching plant area	6.00	14.83	15000
10	Opposite Gammon store yard	1.50	3.71	3750
11	Area opposite first Aid centre and near Truck Tippler	1.50	3.71	3750
12	Near GMR old office area	1.50	3.71	3750
13	Along the plant boundary wall near STP	4.00	9.88	10000
14	South side of Doosan equipment laydown area RWHP	1.50	3.71	3750
15	Near Liold warehouse	0.20	0.49	500
16	Near Loco shed	1.50	3.71	3750
17	At Road shoulder	3.00	7.41	7500
18	CSR Office area	1.00	2.47	2500
	Total	69.70	172.23	174250
19	Natural Forest	42.00	103.74	52968
	<b>Total till FY 2017</b>	<b>111.70</b>	<b>275.97</b>	<b>227218</b>

Plantation period: Jan. 2020- Sep 2023	19.63	48.50	45657
<b>Total Green Belt</b>	<b>131.33</b>	<b>324.47</b>	<b>272875</b>



Name of Unit - Adani Power Limited, Raikheda					
Sr. No.	Location	Area (in Hect.)	Tree (Nos.)	Tree Species	Remarks
1.	Kausrangi	0.02	170	Conocarpus	Plantation in RIPA area
		0.01	100	Karanj	
		0.00	30	Jamun	
		0.00	30	Amla	
		0.00	25	Kadam	
		0.00	35	Gulmohar	
		0.00	35	Jack fruit	
		0.01	80	Neem	
<b>Total</b>			<b>505</b>		
2.	Mura	0.02	190	Anjan	Plantation in Mura
		0.02	150	Karanj	
		0.01	70	Neem	
<b>Total</b>			<b>410</b>		
3.	Naya Raipur	0.01	112	Cassia grandis	Plantation in Naya Raipur
		0.01	130	Spathodia compunalata	
		0.01	142	Bahunia blackinia	
		0.03	310	Bougavilia	
		0.04	419	Nerium dwarf	
		0.02	245	Thewatia nerifolia	
		0.03	324	Pulchurima	
<b>Total</b>			<b>1682</b>		
<b>Grand Total</b>			<b>2597</b>		

## EVALUATION ON NATURAL FOREST

Forest vegetations are the most diverse in the vegetation structure and composition which directly or indirectly responsible for the existence of other ecosystem. All forest regions are being affected by several means and thus scientific and ecological monitoring is obligatory for conseration of the forest. Thus proper ecological monitoring of plants provide the elementary status of the vegetation. The present evaluation is thus aimed to reveal the ecological status of the plants naturally present at **Adani Power Limited, Raikheda** campus premises spread across an area of around **100 Hectares**.

**Field Investigation and Data Collection:** The composition of plant community of the Forest in the campus was investigated by using following methodology:

A total of **16 quadrats** (randomly) were selected which were on the corner as well as centre of the forest area having quadrate size of **20m x 20 m(400m<sup>2</sup>)**. We further systematically placed **five 5m×5m shrub quadrates** (one at the centre and the other four atthe corners) to investigate shrubs, and **five 1m×1m herbquadrates** were fixed to the centre of each shrub quadrate to investigate herbs in each plots, including **80 shrub quadrates** and **80 herb quadrates** from natural forest sites. Plant species found within each sampling plot were photographed and identified by their vernacular and scientific names.

**Density:** Density is the study of the number of plant species in the quadrate per unit area. By quadrate method, samplings are made at random at several places and the number of plant of every species was summed up for all the quadrates divided by the total number of quadrates. It is represented by the formula:

$$\text{Density} = \frac{\text{No. of individual of the plant species}}{\text{Total number of plots in which the species is present}}$$



Tree Species in Natural Forest			
Name of Unit - Adani Power Limited, Raikheda			
Location	Area	Tree (Nos.)	Tree Species
Campus of Adani Power Limited, Raikheda, Tilda, Raipur	42 Hectares	52968	Teak ( <i>Tectona grandis</i> )
			Sal ( <i>Shorea robusta</i> )
			Shisham ( <i>Dalbergia sissoo</i> )
			Harra ( <i>Terminalia chebula</i> )
			Baheda ( <i>Terminalia bellirica</i> )
			Mahua ( <i>Madhuca indica</i> )
			Amla ( <i>Phyllanthus emblica</i> )
			Semul ( <i>Bombax ceiba</i> )
			Kusum ( <i>Schleichera oleosa</i> )
			Chandan ( <i>Santalum album</i> )
			Tendu ( <i>Diospyros melanoxylon</i> )
			Palas ( <i>Butea monosperma</i> )
			Amaltas ( <i>Cassia fistula</i> )
			Bel ( <i>Aegle marmelos</i> )
			Khair ( <i>Senegalia catechu</i> )
			Dhawra ( <i>Anogeissus latifolia</i> )
			Saja ( <i>Terminalia elliptica</i> )
Bija ( <i>Pterocarpus marsupium</i> )			
Bamboo ( <i>Bambusa vulgaris</i> )			
Others			

**Remarks:**

**1. Quantitative Interpretation:**

Trees calculated as per the density formula to be approx. **1261.14 plants per hectare.**

**2. Qualitative Interpretation:**

Precipitation, Soil, Topography and Climatic condition signifies the forest to be a **Dry Deciduous Forest.**

## CONCLUSION

The Survival percentile of plantation done by “M/S Adani Power Limited, Village - Raikheda, Block - Tilda, Raipur - 493225 (Chhattisgarh) upto August 2023 is about 96% which is Excellent for the company. The current action plan (CAP) targets of planting 30000 saplings in current assessment year of 2023-24 from which almost 70% of the target is achieved by the time of this evaluation. The overall growth of plantation was satisfactory as the company actively manages the greenbelt development very well.

The official staff of the company were co-operative, enthusiastic and helpful towards the work. We convey our best regards to the environmental branch of the company for successful greenbelt development following the norms of MoEFCC, Govt of India and Govt of Chhattisgarh.

## GRADING (ON SCALE OF 1 to 10)

GRADING	Excellent (8-10)	Very Good (5-8)	Good (3-5)	Poor (<3)
	9.6			



# ON SITE PHOTOGRAPHS



























**==END OF REPORT==**





Site: Raipur



# Utilization Status

Site name: RAIPUR

Rs. in Lakhs

	Verticals	Budget	NFA expected	NFA approved	PR approved	PO issued	Utilization
1.	Edu	69.12	68.6	68.6	52.37	25.01	22.88
2.	Health	33.98	29.57	29.57	29.57	29.57	16.43
3	CA	64.89	59.25	59.25	52.57	54.22	54.00
4	CD	17.17	13.67	13.17	5.08	5.02	0
5	SLD	57.76	45.00	23.68	17.02	15.77	22.91
6	Admin	12.33	12.32	12.32	8.78	8.25	4.72
	<b>Total</b>	<b>255.25</b>	<b>228.41</b>	<b>206.59</b>	<b>166.07</b>	<b>137.85</b>	<b>120.94</b>

# Key programmatic accomplishments

## Community Health

Education

Sustainable Livelihoods

Community Infrastructure

Stakeholder engagement

- ❖ **Multi Specialty Health Camps** :- Catering to the specific disease centric problems of the villagers, AF organized 02 Multi specialty & 01 Gynec Health Camps at Villages Murra Chicholi & Raikheda.
- ❖ During the camps, 1024 (Gynec Camp-184) people got benefitted with different free medical supports like – tests, consultancy & medicines.
- ❖ Mobile Medical Health Clinic Van operational in 17 APL villages with total 17,815 Nos. Medical Consultancies/ OPD observed till Sep'24.



# Highlights: Community Health



## अदाणी फाउंडेशन की 28वीं वर्षगांठ पर रायखेड़ा में लगा रूग्नी रोग स्वास्थ्य जांच शिविर 200 से अधिक ग्रामीण महिलाओं ने कराई निःशुल्क जांच



रायपुर (पश्चिम राजस्थान)। अदाणी फाउंडेशन की 28वीं वर्षगांठ के अवसर पर ग्राम पंचायत रायखेड़ा में पत्रिका को निःशुल्क रूग्नी रोग जांच शिविर का आयोजन किया गया। जिले के निरन्तर चर्चित में स्थित अदाणी पावर लिमिटेड, रायपुर के सामाजिक सरोकारों के तहत आयोजित इस विशेष स्वास्थ्य जांच शिविर में ग्राम रायखेड़ा, गैतरा, पिचोली, गौरखेड़ा और भाटापारा की 204 महिलाएं शामिल हुईं। शिविर का उद्देश्य ग्रामीण महिलाओं के लिए आसानी पर रूग्नी संबंधित रोगों रोनी का इलाज करना था जो आमतौर पर रोगों में उपलब्ध नहीं हो पाता है। स्वयं ही जिन रोगों की उपेक्षा करने से कई गंभीर बीमारियों का खतरा हो सकता है, उसके बारे में भी महिलाओं को चेतना शिविर का भागदार था।

अवसरान की महिला चिकित्सक डॉ अंकिता खेतन ने महिलाओं की स्वास्थ्य जांच कर उन्हें आवश्यक परामर्श दिया। इस दौरान सभी को मुफ्त में दवाइयों भी प्रदान की गयी। अदाणी फाउंडेशन का इतना भी महत्वाकांक्षी है कि स्वास्थ्य सहाज ही सहाज समाज का निर्माण कर सकता है।

अदाणी फाउंडेशन द्वारा शिविर शुरुआत में अदाणी पावर लिमिटेड के समुदायिक सरोकारों में स्वास्थ्य सेवा के लक्ष्य परियोजना के तहत ग्रामीण महिलाओं को चेतना शिविर का भागदार था। इस शिविर का उद्देश्य ग्रामीण महिलाओं को चेतना शिविर का भागदार था। इस शिविर का उद्देश्य ग्रामीण महिलाओं को चेतना शिविर का भागदार था।



## स्वास्थ्य जांच विधायक अनूज शर्मा ने अपना स्वास्थ्य जांच कराया 400 से ज्यादा गांववालों ने कैम्प में मुफ्त कराई जांच

पत्रिका न्यूज नेटवर्क  
patrika.com

तिरुवा-नेवरा, अदाणी फाउंडेशन द्वारा निरन्तर विकास खण्ड के ग्राम पंचायत पिचोली के महिला भवन में निःशुल्क स्वास्थ्य शिविर का आयोजन किया गया। अदाणी पावर लिमिटेड के सामुदायिक सहभागिता कार्यक्रम के तहत आयोजित इस शिविर का उद्घाटन मुख्य अतिथि धरसीवा विधायक अनूज शर्मा ने अपने स्वास्थ्य जांच करने के साथ किया। शिविर में आसपास के गांव मुरा, गौरखेड़ा, गैतरा,



रायखेड़ा और भाटापारा सहित एक दर्जन गांव के 447 लोगों ने जांच कराई, रायपुर के मल्टी-स्पेशलिटी अस्पताल के अस्थि, हृदय, रूग्नी और औषधि विभाग के विशेषज्ञ चिकित्सकों ने मरीजों की निःशुल्क जांच की और उन्हें परामर्श देते हुए उनके बीच आवश्यक दवाओं का वितरण किया।

पाठक संतोष विष्णुकर्मा, अदाणी पावर लिमिटेड के एचआर प्रमुख भूपेंद्र सिंह बंस, सीएसआर विभाग के मुख्य दीपक कुमार सिंह और फाउंडेशन के अन्य सदस्य उपस्थित रहे। शिविर पहले ग्रामीणों की सख्या देख विधायक अनूज शर्मा ने कहा की अदाणी फाउंडेशनका ये यज्ञ ही सरहान्तीय कार्य है। उन्होंने इसे निरंतर जारी रखने का आग्रह किया। अदाणी फाउंडेशन के द्वारा समय-समय पर प्लेट के पास के ग्रामों में शिक्षा, स्वास्थ्य पोषण, पर्यावरण मुधार, समुदाय विकास, ग्रामीण खेल विकास के कार्य किए जाते हैं।



# Key programmatic accomplishments

Community Health

**Education**

Sustainable Livelihoods

Community Infrastructure

Stakeholder engagement

## Under Utthan project:-

- ❖ Navodaya Coaching Center -06 Nos.
- ❖ Utthan Schools- 10 Nos.
- ❖ E-Learning Centers- 15 Nos. (Installed this Year- 10 Nos.)
- ❖ Desk-Benches Donated- 300 Nos.
- ❖ School Bags Donated- 3000 Nos.
- ❖ RO Water Purifier Donated- 07 Nos.
- ❖ 3000 nos. students from 10 villages getting direct benefit from AF.



# Highlights: Education



# Key programmatic accomplishments

Community Health

Education

**Sustainable Livelihoods**

Community Infrastructure

Stakeholder engagement

- ❖ Garment Production Center work Ongoing at Tarashiv, Raikheda
- ❖ Women Engaged- 75 Nos.
- ❖ Total Garment Produced Till Sep'24- 1,43,755 Nos.
- ❖ Total income received by Women- Rs. 5, 58,986/-
- ❖ New Infrastructure- Sewing Machines, Cloth Cutting Table, Coolers, Wardrobes, E-Rikshaw donated at RIPA Center.



# Highlights: Sustainable Livelihood



# Key programmatic accomplishments

Community Health

Education

Sustainable  
Livelihoods

Community  
Development

Stakeholder  
engagement

- ❖ Volleyball Coaching on Going at Village Khamahariya.
- ❖ Total Players – 60 Nos. (Age Group- 7years to 25 years)
- ❖ Community Hall Constructed at Bhatapara Village.
- ❖ Sapling Plantations at Government Schools.
- ❖ Drainage Construction on going at village Bahesar.



# Highlights: Community Development



# Key programmatic accomplishments

Community Health

Education

Sustainable Livelihoods

Community Infrastructure

Climate Action

- ❖ Carried Out 09 Pond Deepening activities in 09 Gram Panchayat.
- ❖ Total water holding area increased – 40,150 Cum
- ❖ Plantation at Gothan (Mohrenga) – 3500 Nos. (ongoing.)



# Highlights: Water conservation



# Highlights: Plantation



### मोहरेंगा के गोठान में रोपे 2,500 पौधे

बहुमिष्ठा न्यूज, बैंगलूर : अदाणी पावर रायपुर के आसपास के क्षेत्रों में पर्यावरण सुरक्षा और हरित पर्यटन के उद्देश्य से सामुदायिक वनीकरण अभियान शुरू किया गया है। इसके तहत प्रदेश में चल रहे 'एक पेड़ मां के नाम' थीम पर विशाल पौधारोपण कार्यक्रम का आयोजन शामिल कर किया गया। इसमें ग्राम मोहरेंगा के गौठान में चंच हजार पौधे लगाने के साथ के अग्रम चरण में 2,500 पौधे रोपे गए। अदाणी फाउंडेशन के इस अभियान में ग्राम पंचायत मोहरेंगा के सरपंच सरजू राम साहू, उपसरपंच लक्ष्मणा विपुले, लेखु सेन, पूर्व धारपंच विधायी राजकुमार ठक्कर और पंचायत सहित अदाणी पावर के स्टेशन हेड श्रीकांत वैद्य शामिल हुए। इसके अलावा प्रदेश मोहासज, अविनाश अस्वल्पा, पंचकर प्रसद, राजेश उपध्याय, जमीन कुमार, भूपेन्द्र सिंह बैस

राजकुमार ठक्कर और पंचायत सहित अदाणी पावर लिमिटेड के स्टेशन हेड श्रीकांत वैद्य शामिल हुए। इसके अलावा प्रदेश मोहासज, अविनाश अस्वल्पा, पंचकर प्रसद, राजेश उपध्याय, जमीन कुमार, भूपेन्द्र सिंह बैस

व्यापक उत्तरदायिनी का निष्पत्ति अदाणी फाउंडेशन के द्वारा किया जा रहा है, जिसमें प्लॉट के समीपस्थ ग्रामों में विभिन्न कार्य जैसे शिक्षा, स्वास्थ्य पोषण, पर्यावरण सुरक्षा, समुदाय विकास, ग्रामीण खेल विकास के कार्य किए जा रहे हैं।



### अदाणी फाउंडेशन का 'एक पेड़ मां के नाम' थीम पर सामुदायिक वनीकरण अभियान

■ प्रथम चरण में रोपे गए 2500 पौधे

रायपुर/नवप्रदेश। अदाणी पावर लिमिटेड, रायपुर के आसपास के क्षेत्रों में पर्यावरण सुरक्षा और हरित पर्यटन के उद्देश्य से अदाणी फाउंडेशन द्वारा सामुदायिक वनीकरण अभियान शुरू किया गया है। इसके तहत प्रदेश में चल रहे 'एक पेड़ मां के नाम' थीम पर विशाल पौधारोपण कार्यक्रम का आयोजन शामिल कर किया गया। इसमें ग्राम मोहरेंगा के गौठान में पांच हजार पौधे लगाने के साथ के अग्रम चरण में 2,500 पौधे रोपे गए। अदाणी फाउंडेशन के इस अभियान में ग्राम पंचायत मोहरेंगा के सरपंच सरजू राम साहू, उपसरपंच लक्ष्मणा विपुले, लेखु सेन, पूर्व धारपंच विधायी राजकुमार ठक्कर और पंचायत सहित अदाणी पावर के स्टेशन हेड श्रीकांत वैद्य शामिल हुए। इसके अलावा प्रदेश मोहासज, अविनाश अस्वल्पा, पंचकर प्रसद, राजेश उपध्याय, जमीन कुमार, भूपेन्द्र सिंह बैस

राजकुमार ठक्कर और पंचायत सहित अदाणी पावर लिमिटेड के स्टेशन हेड श्रीकांत वैद्य शामिल हुए। इसके अलावा प्रदेश मोहासज, अविनाश अस्वल्पा, पंचकर प्रसद, राजेश उपध्याय, जमीन कुमार, भूपेन्द्र सिंह बैस

व्यापक उत्तरदायिनी का निष्पत्ति अदाणी फाउंडेशन के द्वारा किया जा रहा है, जिसमें प्लॉट के समीपस्थ ग्रामों में विभिन्न कार्य जैसे शिक्षा, स्वास्थ्य पोषण, पर्यावरण सुरक्षा, समुदाय विकास, ग्रामीण खेल विकास के कार्य किए जा रहे हैं।





adani

Growth  
with  
Goodness

Thank You!





Power

Ref : APL/Raipur/Env/CECB/409/24

Date: 06.09.2024

To,  
**The Member Secretary,**  
**Chhattisgarh Environment Conservation Board,**  
Paryavas Bhavan, North Block, Sector 19,  
Atal Nagar, Naya Raipur, Chhattisgarh (492002)

**Sub: Submission of Environment Statement (Form-V) for 1370 (2x685) MW Thermal Power Plant at Village Raikheda, Block Tilda, Raipur, Chhattisgarh for FY 2023-24**

Dear Sir,

With reference to above subject, kindly find enclosed herewith Environment Statement Report FORM-V for 1370 (2x685) MW Thermal Power Plant at Raikheda by Adani Power Limited for the financial year 2023-24 duly filed as per format of Environment Statement prescribed by the Board.

Submitted for kind information and record please.

Thanking you,

Yours faithfully,  
for **Adani Power Limited, Raipur**

**(R N Shukla)**  
Head Environment & Forest

Encl: As Above

CC:  
**The Regional Officer,**  
Chhattisgarh Environment Conservation Board,  
Kabir Nagar, Raipur (C.G)

Adani Power Ltd  
Adani Corporate House  
Shantigram, S G Highway  
Ahmedabad 382 421  
Gujarat, India  
CIN: L40100GJ1996PLC030533

Tel#91 79 2555 4444  
Fax +91 79 2555 7177  
www.adanipower.com



# **ANNUAL ENVIRONMENT STATEMENT REPORT**

**(For FY 2023 - 24)**

**1370 (2×685) MW**

**RAIPUR THERMAL POWER PLANT**

**At**

**VILLAGE RAIKHEDA, GAITARA & CHICHOLI,**

**BLOCK TILDA, DISTRICT RAIPUR**

**CHHATTISGARH**

**Submitted to:**

**CHHATTISGARH ENVIRONMENT CONSERVATION BOARD, RAIPUR,  
CHHATTISGARH**

*Submitted by:*

**adani**

**Power**

**Environment Management Department**

**Adani Power Limited, Raipur**

Village Raikheda, Gaitara & Chicholi,  
Block Tilda, District Raipur  
Chhattisgarh

**FORM - V**  
**(See Rule 14)**

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING**  
**31<sup>st</sup> MARCH 2023**

**PART - A**

- (i) Name and address of owner/occupier of the industry operation or process : Mr. Shrikant Vaidya.  
Station Head  
**Adani Power Ltd., Raipur**  
Village: Raikheda, Block: Tilda  
Dist.: Raipur, Chhattisgarh  
PIN: 493225
- (ii) Industry categories : Large scale industry
- (iii) Production capacity : 1370 (2x685) MW
- (iv) Year of establishment : 2014
- (v) Date of last environmental statement submitted : 13.09.2023

**PART - B**

**WATER AND RAW MATERIAL CONSUMPTION**

**I. Water Consumption (m<sup>3</sup> / Day)**

Process :	1061.37	m <sup>3</sup> /day (Wate consumption in DM water generation)
Cooling :	50793.70	m <sup>3</sup> /day (CT Makeup water consumption)
Domestic:	160.46	m <sup>3</sup> /day (Potable water Consumption)

Sr. No.	Name of product	Water consumption per unit of product output for plant operation	
		During the current financial Year 2022-23	During the current financial Year 2023-24
1	Electricity	2.268 m <sup>3</sup> /MWh	2.242 m <sup>3</sup> /MWh

**II. Raw Material Consumption**

Sl. No.	Name of raw material	Name of product	Consumption of raw material per unit of output	
			During the current financial Year 2022-23	During the current financial Year 2023-24
1	Coal	Electricity	0.72 MT/MWh	0.67 MT/MWh



**PART - C**

**POLLUTION DISCHARGED TO ENVIRONMENT/ UNIT OF OUTPUT**  
(Parameter as specified in the consent issued)

Sr. No.	Pollutants	Quantity of pollutants discharged (Ton/day)	Concentrations of pollutants in discharges (mg/Nm <sup>3</sup> )	Percentage of variation from prescribed standards with reason
a.	Water	0.00	0.00	Plant is designed for zero discharge
b.	Air: <b>PM</b>	4.64	38.90	Within the standards of CECB/CPCB
	SO <sub>2</sub>	131.63	1104.66	As per MoEF&CC notification dated 05th September 2022, APL is a Category "C" TPP and timelines for compliance of SO <sub>2</sub> emission is up to 31st December 2026.
	NO <sub>x</sub>	37.47	317.92	Within the standards of CECB/CPCB

Monitoring reports of Ambient Air Quality, Ground water quality, Surface water quality, Noise level etc. are being submitted regularly to MoEFCC, CPCB and CECB.

**PART - D**

**HAZARDOUS WASTES**

**AS SPECIFIED UNDER HAZARDOUS WASTES (MANAGEMENT, HANDLING AND TRANS BOUNDARY MOVEMENT) RULES, 2016**

Hazardous wastes	Total quantity (KL)	
	During the current financial year 2022-23	During the current financial year 2023-24
a) From process	16.380 KL used oil	11.332 KL used oil
b) From pollution control facility	0.00	0.00

**PART - E**

**SOLID WASTES (ASH)**

Sr. No.	Solid Wastes	Total Quantity in MT	
		During the current financial year 2022-23	During the current financial year 2023-24
(a)	From Process (Ash)	2026348	2316683
(b)	From pollution control facility	0.00	0.00
(c)	(1) Quantity recycled or re-utilized within the unit	0.00	0.00
	(2) Sold	0.00	0.00
	(3) Disposed	2027557	2318767

## PART- F

### **PLEASE SPECIFY THE CHARACTERIZATIONS (IN TERMS OF COMPOSITION OF QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTE AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES.**

**Hazardous waste:** Used oil which is generated from power plant process is being collected in MS drum from source & disposed of through CECB Authorized recyclers.

**Solid waste:** Fly ash is generated as solid waste from the plant process & we are putting every effort as illustrated below for 100% utilization of Ash:

- We have made agreements with various cement manufacturers in Dist.: Raipur, Balodabazar, Bhilai-Chhattisgarh for utilization of fly ash. Presently, we are providing fly ash to:
  - M/s Baikunth Cement Works, P.O. Baikunth, Raipur
  - M/s UTCL – RAWAN, PO: Hirmi, Simga, Raipur
  - M/s UTCL - HIRMI, PO: PO: Hirmi, Simga, Raipur
  - M/s J. K. Lakshmi Cement Ltd, Ahiwara Malpuri Khurd, Dist. Durg.
  - M/s Ambuja Cement Limited, Baloda Bazar-Bhatapara
  - M/s ADITYA CEMENT, Suhele, Simga, Raipur
  - M/s CENTRAL CEMENT, Sarora-Tilda

- APL, Raipur is operating its own Flyash brick manufacture unit having capacity: 15000 bricks/day inside plant premises.

Bricks & Blocks manufacturers units in Dist.: Raipur, Chhattisgarh for utilization of Flyash:

- M/s Ecorex Buildtech Private Limited, Kharora Road, Opp- REL
- M/s Shaswat Fly Bricks, Kharora, Raipur
- M/s APL Bricks Plant, REL Bricks Plant

Bricks & Blocks manufacturers units in Dist.: Raipur, Chhattisgarh for utilization of Bottom ash:

- M/s Chhattisgarh Services, Kodwa - Bemetara
- M/s Chandrakar Flyash Brick's, Mahasamund
- M/s Anil Brick's, Bemetara
- M/s Jain Flyash Bricks, Dhamtari, Raipur

- We are providing fly ash to various Road Construction Projects like:

- M/s UMSL Odisha Road Projects, Parsabeda Odisa
- M/s. R. K. Roadways, Parsabeda Odisa
- M/s Punjab Roadways, Hathkhoj, Bhilai Durg

We are also in discussion with various other Road Projects & other construction activities to maximize ash utilization.

- We have made an agreement & signed MOUs with M/s. Shree cement Limited for providing Pond Ash approx. 2.0 Lac MT/month.

- We made agreements with various authorized Fly Ash transporters for lifting Bottom ash and filling for abandoned Mine Pits/stone quarries exist in nearby vicinity:

- |  |                                  |
|--|----------------------------------|
| – M/s Sharma Construction, Village - Mura  | – M/s L N Traders                |
| – M/s Shikha Stone Crusher, Village - Mura | – M/s Chakradhari Tour & Travels |
| – M/s Raj Laxmi Traders                    | – M/s A V Enterprises            |
| – M/s Ashish Group of Industries           | – M/s Raj Traders                |
| – M/S Mahamaya Stone Pvt Ltd               | – M/s Akash Enterprises          |
| – M/s Anmadi Transport                     | – M/s Shree Surya Transport      |



### **Organic waste (Food Waste) Decomposition System:**

Establish of Organic Waste Composter (OWC) System (**Capacity: 200 kg/day**) for composting of the leftover food (organic waste) and Garden waste (dry leaves and twinges) to produce Organic Manure (nutrient-rich green fertilizer), approx. 12.35 MT of Organic Waste (food waste) generated from plant canteens and guest houses is decomposed in Organic Waste Composting System to produce green manure,

### **PART – G**

#### **IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION**

- (1) High Pressure dust suppression system is installed at 03 wagon tippers of Coal Handling Plant to control fugitive dust emission.
- (2) Dry Fog Dust control system installed in Conveyor belt receiving points and Transfer points at Coal Handling Plant area to control air born particles during movement of coal.
- (3) A new Coal Settling Pond of approx. 20000 Cubic Meter capacity is constructed near Wagon Tippler complex of Coal Handling Plant for collection and reutilization of runoff water generated during wagon tippler operation.
- (4) A new 15 KLD Modular Sewage Treatment Plant (STP) has been installed for treating sewage generated from Guesthouse cum bachelor's hostel inside the premises. The treated water will be used in gardening and new greenbelt development activities.
- (5) Treated effluent water is being utilized in Ash handling, dust suppression and sprinkling system. Ash pond effluent being recycled and reused after proper treatment and confirming to the treatment norms within the premises.
- (6) 02 Nos. of Rainwater harvesting ponds are established at APL, Raipur plant premises with total **60580 M<sup>3</sup> water holding Capacity**. Photographs of the same is attached as **Annexure – I** for information please.
- (7) Installation of new Continuous Effluent Quality Monitoring system with real time monitoring data transfer to CECB/CPCB portal having real time monitoring of pH, Temperature, TSS, COD & BOD parameters
- (8) All the air pollution control systems like ESP, Dust Suppression in CHP, Bag Filters, Dust Extraction Systems, etc. within premises for control of fugitive emissions are available and working satisfactorily to ensure the emissions within prescribed standards all the time.
- (9) Extensive tree plantation has already been done, in compliance of EC & consent order greenbelt development/plantation, which will mitigate & optimize the ambient temperature as well Air emission of surrounding area. Copy of Green Belt Development status is attached as **Annexure – II** for information please.
- (10) APL, Raipur is operating its own Flyash brick manufacture unit having capacity: **15000 bricks/day** inside plant premises and we have been using fly ash brick for all the construction activities in our plant.

## PART - H

### **ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION, PREVENTION OF POLLUTION**

- (1) Separate fund allocated for implementation of Environmental Protection measures. The funds earmarked on environmental protection are not diverted for any other purpose and year-wise expenditure report submitted to CECB/MoEFCC. Copy of expenditure incurred towards implementation of environment protection measure at APL in the FY: 2023-24 are summarized and attached as **Annexure - III** for information please.
- (2) 10 KWH Solar Power generation unit (generated power is used in Internal lighting and circulating water operation system).
- (3) APL, Raipur TPP is using 03 Nos. of Battery-Operated Vehicles for material shifting (mini truck & golf carts) & 06 Nos. of E-Scooters for internal movement of manpower.
- (4) **Providing spray nozzle** over existing taps of APL Plant premises and guest house locations at very minimal cost.
  - With this initiative APL, Raipur is saving early 2161 liters of water daily which totals to 788947 Liters per year.
- (5) 03 Nos. of Bag Filter Cages are provided at the top of Ash silos (149 Bag filters in each Bag house Cage) for controlling the generation of fugitive ash.
- (6) Bulker washing system installed at Ash silo area for washing of ash deposited over bulker body and tyres during ash loading activity from ash silos.
- (7) Adani Power Limited, Raipur 'received "**Gold Award**" in "16th EXCEED Green Future Award 2024" in **Environment Sustainability under 'Power (Inclusive Renewables) Sector'**.
- (8) Adani Power Limited, Raipur, is a **Single-use Plastics free Organization**, as verified by the Confederation of Indian Industry, under the provisions of the Plastics-use Protocol: Verification and Certification. Demonstrating its commitment to sustainability and environmental stewardship.
- (9) World Environment Day 2024 is Celebrated at APL, Raipur from 1<sup>st</sup> to 5<sup>th</sup> June 2024, comprising various activities:
  - **Environmental Oath was taken by approx. 625 Nos. of employees and business associates** followed by mass Plantation drives along with APL employees, stakeholder and school kids was conducted on June 5, 2024, at APL premises and nearby Rural Industrial Park, Village Tarashiv area. **Total 5377 nos. of plant saplings were planted.**
  - Technical discussions, poster & drawing competitions, environmental puzzle and crosswords etc. on **MoEF&CC's Mission life Themes**: Save energy / Save water / Say no to single use plastics (SUPs) / Reduce e-waste / Adopt healthy lifestyle / Adopt sustainable food systems etc.



Annexure I

**Rainwater Harvesting Pond -1**

<b>Name of Structure</b>	<b>Length (In Mtr)</b>	<b>Width (In Mtr)</b>	<b>Depth (In Mtr)</b>	<b>Total Area (In M<sup>3</sup>)</b>
Recharge Pond -1	70	55	10	38500

**Rainwater Harvesting Pond -2**

<b>Name of Structure</b>	<b>Length (In Mtr)</b>	<b>Width (In Mtr)</b>	<b>Depth (In Mtr)</b>	<b>Total Area (In M<sup>3</sup>)</b>
Recharge Pond -2	48	46	10	22080



**Green-Belt area developed: Trees & Shrubs Planted  
Adani Power Limited, Raipur**

<b>Green Belt Required as per Environmental Clearance: 113.51 Ha.</b>		
<b>Plantation Details</b>	<b>Completed</b>	<b>Under Progress</b>
Green Belt Development (Ha.) (Year: 2020 - till 30.07.2024)	22.42	Natural Forest & previous Green belt area till 2017
Total Green Belt area (Ha.)	134.11	111.68 Hectare (GMR Period) Approx. 227218 Plants
Saplings Planted 2022-23 (Nos.)	16408	5000 Nos. (Target in FY: 2022-23)
Saplings Planted 2023-24 (Nos.)	22572	7000 Nos. (Proposed in FY: 2023-24)
Total Saplings Planted (Nos.) (Year: 2020 - till 30.06.2024)	89567	Survival (% age) : 96%
Saplings in Nursery (No.)	144000	Under maintenance for further Green Belt development inside and in surrounding area of APL, Raipur premises and distribution among neighbouring village through CSR Activities.



**Expenditure incurred towards the implementation of  
Environmental Protection - 2023-24**

<b>Capital Expenditure (Establishment &amp; Strengthening of Environment Management System)</b>		
<b>Sr. No.</b>	<b>Expense Details</b>	<b>Expense Incurred (Rs. in Lakhs)</b>
1.	Cost incurred on procurement of spares, flanges and fittings of Ash Handling System for: <ul style="list-style-type: none"> <li>- Ash Conveying and slurry lines replacement</li> <li>- CAC and IAC Maintenance</li> <li>- ESP Electrodes replacement</li> <li>- Bottom ash Clinker grinder maintenance</li> </ul>	391.34
2.	Procurement & installation of real time Continuous Effluent Quality Monitoring Analyzer for BOD/COD/PH/TSS parameters	10.86
3.	Cost incurred on procurement of analyzers & sensors for Continuous Emission Monitoring System (CEMS) <ul style="list-style-type: none"> <li>- Assy, Gold Mirror, MM:C4N-GCEM40HT Mirror for CEMS</li> <li>- Protector F/Outdoor Temp. Sensor, ALRE for CEMS/CO</li> <li>- Datconn+ FM Data Unit (Black Box), for CEMS</li> <li>- KIT- Probe, MM:C4N-H TOPTICKIT-Complete for CEMS</li> <li>- Interface, PCB, MM:C4N-PC BDDU Interface for CEMS</li> </ul>	21.98
4.	Installation of Coal Settling Pond along with dewatering pump system of approx. 20000 Cubic Meter capacity	150.00
5.	Cost incurred on procurement of plant saplings and development of infrastructure (barrication & installation of drip irrigation system) inside premises and at identified locations in neighbouring village areas	180.00
<b>Total Capital Expenditure (Rs. in Lakhs)</b>		<b>754.18</b>
<b>Recurring Expenditure (Waste disposal, emissions treatment, and remediation costs)</b>		
1.	Cost incurred on overhauling of DE system @ Coal Bunker and Filter replacement in Ventilation System at Coal Handling Plant	15.00
2.	Cost incurred on ESP Overhauling work (Internal repair and TR maintenance)	26.00
3.	Cost incurred on Ash utilization/disposal system: <ul style="list-style-type: none"> <li>- Hiring of Machinery &amp; Equipment for excavation &amp; loading of pond ash for further disposal in allocated abandon mine void and other low laying areas inside plant premises.</li> <li>- Transportation &amp; Disposal of ash from plant site to abandon Mine Voids</li> </ul>	224.87 2286.86
4.	Cost incurred on hiring Comprehensive Maintenance Services of OEM agency for repairing & maintenance of 04 Nos. of CAAQMS and 02 Nos. Of CEMS systems and acquisition and transfer of real time monitoring data to CPCB portal as per compliance requirements.	31.21
5.	Cost incurred on chemical treatment of Effluent at Water Treatment Plant	10.91
6.	Cost incurred on hiring services for environmental monitoring by CECB/MoEFCC authorized Environmental Monitoring agency as per compliance requirement.	13.95
7.	Cost incurred on Operation & Maintenance of Organic waste Composter System (Disposal of food waste)	1.74
8.	Cost incurred on maintenance of existing green belt and irrigation system inside and around plant premises	133.87
<b>Total Recurring Expenditure (Rs. In lakhs)</b>		<b>2744.41</b>
<b>Grand Total (Rs. In lakhs)</b>		<b>3498.59</b>



CII-ITC Centre of Excellence  
for Sustainable Development



Confederation of Indian Industry



## Certificate

### Single-use Plastic Free

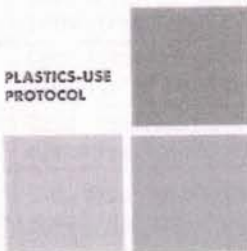
**Adani Power Limited, Raipur  
(Former Raipur Energen Limited)**

Village: Raikheda, Block: Tilda, District: Raipur, PIN: 493225, Chhattisgarh, India

This is to certify that Adani Power Limited, Raipur at the location mentioned above, is Single-use Plastics free as verified by the Confederation of Indian Industry, under the provisions of the **Plastics-use Protocol: Verification and Certification.**

This Certificate is valid from 08<sup>th</sup> June 2023 to 07<sup>th</sup> June 2024.

PLASTICS-USE  
PROTOCOL



**Ms Seema Arora**  
Deputy Director General  
Confederation of Indian Industry (CII)  
Centre of Excellence for Sustainable Development (CESD)

**Certificate Date: 20 June 2023**

**Certificate No.: CII/PuP/2023/011**

This certificate has been awarded after the company fulfilled the requirements for phasing-out single-use plastics and provided evidence for it. Responsibility for the data provided to CII rests solely with the company. The conditions of certification, and items are detailed in the Annex.





### Annex

The certification applies to the following single-use plastic items:

- SuP Cutlery (forks, knives, spoons, chopsticks, beverage stirrers, plastic straws)
- SuP Crockery (plates, glasses, cups, trays), Ear buds with plastic sticks
- Plastic sticks for balloons
- Wrapping/packing films around sweet boxes, invitation cards, and cigarette packets
- Items of decoration (polystyrene)
- Non-woven plastic carry bags
- Plastic flags
- PVC flex banners, Plastic banners, Plastic buntings
- Candy sticks, Ice-cream sticks
- Food containers (including those made of expanded polystyrene)
- Pouch for packing food item (not multi-layered)
- Drinking water sealed glasses, Plastic water pouch
- Plastic dustbin liners
- Plastic wrapping sheet
- Plastic cling film

**Organizational Boundary:** Adani Power Limited, Raipur (Former Raipur Energen Limited)

**Operational Boundary:** Offices, Pantry, Canteen, Operations

**Material Boundary:** Single-use Plastics

#### Reference

**Verification Date:** 08 June 2023

**Verification Report No.:** PuP/Verification/2023/R/APL

**Mode:** On account of the COVID-19 pandemic, the verification process was virtual and followed provisions outlined in the Verification Procedure of the Protocol.

**Expenditure incurred towards the implementation of  
Environmental Protection - 2022-23**

Capital Expenditure (Establishment & Strengthening of Environment Management System):		
Sr. No.	Expense Details	Expense Incurred (Rs. in Lakhs)
1.	High Pressure dust suppression system is installed at 03 wagon tippers of Coal Handling Plant to control fugitive dust emission	57.30
2.	Dry Fog Dust control system installed in Conveyor belt receiving points and Transfer points at Coal Handling Plant area to control air born particles during movement of coal.	46.00
3.	A new Coal Settling Pond of approx. 20000 Cubic Meter capacity is under construction near Wagon Tippler complex of Coal Handling Plant for collection and reutilization of coal runoff water generated during wagon tippler operation	100.30
4.	Dust Suppression System installation at Ash Silo unloading area	10.03
5.	Installation of 15 KLD Modular Sewage Treatment Plant (STP) for treating sewage generated from under construction Guesthouse cum bachelor's hostel.	32.27
6.	Establishment of 06 Nos Construction of Piezometric Wells in plant premises for the monitoring of ground water quality around Ash Dyke area.	7.70
	Procurement of flue gas analyzer and Electronic Water Level Indicator for strengthening of Environmental Monitoring System	6.11
<b>Total Capital Expenditure (Rs. in Lakhs)</b>		<b>259.71</b>
Recurring Expenditure (Waste disposal, emissions treatment, and remediation costs):		
1.	Expense on Ash handling and dust suppression system at Ash Handling Plant:	
	<ul style="list-style-type: none"> <li>• Replacement of 1000 Mtr. Fly ash and 650 Mtr. slurry line</li> <li>• Installation of clinker grinder mechanical seal (32 Nos.)</li> <li>• Hiring of AMC of expert service for maintenance of Geho Pump for ash conveying system</li> </ul>	351.55
2.	Installation of new Coal Slurry Pump at existing Coal settling pond for smooth operation at Coal Handling Plant	9.90
3.	Expense on Ash Utilization/disposal system:	
	<ul style="list-style-type: none"> <li>• Hiring of Machinery &amp; Equipment for excavation &amp; loading of pond ash for further disposal in allocated abandon mine void and other low laying areas inside plant premises.</li> <li>• Transportation &amp; Disposal of ash from plant site to abandon Mine Voids</li> </ul>	184.86 815.45
4.	Cost incurred on hiring Comprehensive Maintenance Services of OEM agency for repairing & maintenance of 04 Nos. of CAAQMS and 02 Nos. Of CEMS systems and acquisition and transfer of real time monitoring data to CPCB portal as per compliance requirements.	21.13
5.	Cost incurred on hiring services for environmental monitoring by CECB/MoEFCC authorized Environmental Monitoring agency as per compliance requirement.	18.87
6.	Cost incurred on Operation & Maintenance of Organic waste Composter System (Disposal of food waste)	4.25
7.	Cost incurred on development and maintenance of green belt area (Horticultural Activities) inside and around plant premises	287.31
8.	Cost incurred on chemical treatment of Effluent at Water Treatment Plant	1.70
<b>Total Recurring Expenditure (Rs. In lakhs)</b>		<b>1695.02</b>
<b>Grand Total (Rs. In lakhs)</b>		<b>1954.73</b>



भारत सरकार  
परमाणु ऊर्जा विभाग  
विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड



Government of India  
Department of Atomic Energy  
Board of Radiation & Isotope Technology

Certificate Tracking ID / CTID : 2400624  
Date of Issue / DOI : 23-Feb-2024  
Certificate Serial No. / CSN : ULR-TC1170324000001748F



TC-11703



## Radioanalytical Laboratory

### RADIOACTIVITY TEST CERTIFICATE

Ref : BRIT/RAL/DOM/1198-1205/MISC/875-882/23-24

To :  
M/S. ADANI POWER LIMITED  
1, BLOCK TILDA, RAIKHEDA,  
RAIPUR - 493225  
CHHATTISGARH  
INDIA.

This is regarding the sample of "COAL, FLY ASH & BOTTOM ASH & POND ASH" sent for radioactivity analysis vide your letter ref. APL/ENV/23-24/301 dt. 25.01.2024 which as per above letter is drawn from consignment with the following markings, as shown in italics:

**NAME & ADDRESS OF COMPANY** : **M/S. ADANI POWER LIMITED**  
**1, BLOCK TILDA, RAIKHEDA,**  
**RAIPUR- 493225**  
**CHHATTISGARH**  
**INDIA.**

Sr. No	SAMPLE NO	TYPE OF SAMPLE	PLACE	DATE OF SAMPLE	WEIGHT (IN KG)
1	SAMPLE NO 1	COAL	APL, RAIPUR	23/01/2024	01
2	SAMPLE NO 2	FLY ASH	APL, RAIPUR	23/01/2024	01
3	SAMPLE NO 3	BOTTOM ASH	APL, RAIPUR	23/01/2024	01
4	SAMPLE NO 4	POND ASH	APL, RAIPUR	23/01/2024	01

DATE OF RECEIPT OF SAMPLE: 31.01.2024

DATE OF COMPLETION OF TEST: 21.02.2024

The Samples provided were analysed for U-238 and Th-232 radioactivity content by HPGe gamma spectrometry and the values obtained are as follows :

Sr. No	SAMPLE DESCRIPTION	U-238 (Bq/Kg)	Th-232 (Bq/Kg)
1	COAL	43.4 ± 2.1	60.8 ± 6.4
2	FLY ASH	96.5 ± 2.6	149 ± 5.8
3	BOTTOM ASH	73.8 ± 2.1	109 ± 10.8
4	POND ASH	65.3 ± 2.1	92.2 ± 9.4

**Opinion:** The measurement values are below the clearance level for radionuclides of natural origin in bulk solid materials, as per AERB directive 01/2010 (table-3) dated 26/11/2010.

**Note:** (i) The report pertains to the given sample only. (ii) The sample will be retained in this laboratory for a period of 1 month from certificate date and thereafter it will be disposed off. (iii) This report shall not be reproduced except in full, without written approval of the laboratory. (iv) The sampling is not done by this laboratory.

**Checked by:**  
GANPAT B NAKTI  
Assistant

**Authorized Signatory:**  
AJAY NANA THAMKE  
OIC, RAL

\*\*\*\*\* End of Report \*\*\*\*\*

1/1

The authenticity of this certificate is verifiable. Please scan the QR code using a QR scanning application on any mobile devices. Upon redirection you must enter the necessary information in landing page <https://portal.britatom.gov.in>. We will then revert you back with a digital copy of the certificate in your verified e-mail ID. In accordance to IT Act 2000 (21 of 2000), this document is generated electronically through a validated s/w and need no physical/ digital signature(s).



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

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

