

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 4 M (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

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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

1370 (2x685) MW Coal Based Thermal Power Plant

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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.

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: 09th 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

SI. No.	Conditions of EC	Compliance Status
Α.	Specific Conditions	
(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 Adani Power Limited 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 ₂ 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_x , NO_x , $PM_{2.5}$ & PM_{10} . 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 ₂ , and NOx. 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.

SI. No.	Conditions of EC	Compliance Status
		The Environment Monitoring report is enclosed herewith as Annexure – I.
(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 ³ .	Complied. High efficiency Electrostatic Precipitators (ESP) has been considered to meet revised emission standard of <50 mg/ Nm3 for PM. The monitoring report for stack emission is enclosed in Annexure – I.
(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 supress 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: 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.

SI. No.	Conditions of EC	Compliance Status
(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.	With reference to above notification, further EC amendment is not required. 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. <u>https://www.adanipower.com/Downloads</u> 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 O6 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 st 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. O2 Nos. of Rainwater harvesting ponds are established at APL, Raipur plant premises with total 60580 M ³ 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.

SI. 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 Annexure I.
(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 Annexure I.
(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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		List of Pollution Control Equipment/Devices installed to restrict fugitive as emission within prescribed limits is enclosed as Annexure III.
(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 Annexure IV.
(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 28th 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 rd party Green Belt Evaluation/Audit is being carried out. Copy of Greenbelt evaluation report is enclosed as Annexure V.
(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

SI. 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 Annexure VI .
(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 Annexure VI .
(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

SI. 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 Annexure VI
(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.
	General Conditions;	
(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 Annexure I.
(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.

SI. 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 Annexure I.
(vii)	Regular monitoring of ambient air ground level concentration of SO ₂ , NOx, PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed 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. <u>https://www.adanipower.com/Downloads</u> The ambient air quality monitoring report is enclosed Annexure I .
(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 <u>http:envfor.nic.in</u>	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. <u>https://www.adanipower.com/Downloads</u>

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(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. www.adanipower.com/Downloads
(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 Annexure VII . 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. www.adanipower.com/Downloads 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.

SI. 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 th 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.
	tions of Amended EC dated 13.06.2013	
(v)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed, and it shall be ensured that particulate emission does not exceed 50 mg/Nm3"	Complied. High efficiency Electrostatic Precipitators (ESP) has been considered to meet revised emission standard of <50 mg/ Nm ³ for PM. The monitoring report for stack emission is enclosed as Annexure I.
(xxxi)	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

SI. No.	Conditions of EC	Compliance Status
(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.	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. Being Complied. 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. 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. 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.
(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.	Complied. Quarterly monitoring of heavy metal and other physicochemical parameters in ground water around the ash pond area is being carried out regularly by 3 rd party NABL approved Environmental Laboratory. The ground water analysis report is enclosed as Annexure I.
Condit	ions of Amended EC Extension dated 18.11.2014	
(i)	The coal transportation by road shall be through mechanically covered trucks to the extent feasible, else, shall be through tarpaulin covered trucks.	Complied. The transportation through rail is being done.
(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.	Complied. Avenue plantation all along the road has already been done inside the plant premises.
(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.	Complied. Coal transportation through rail has been started. Avenue plantation all along the road has already been done inside the plant premises.

SI. 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. <u>https://www.adanipower.com/Downloads</u>
(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 rd Party Green Belt Evaluation Report is enclosed as Annexure V.
(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.
Condit	ions of Amended EC Extension dated 04.02.2015	
(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

SI. No.	Conditions of EC	Compliance Status
		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. With reference to above notification,
(ii)	The PP shall advertise in the local newspapers and place on the website, the proposed amendment for public information.	further EC amendment is not required. Complied. Advertisement has been published in local daily News Papers. & details submitted with previous compliance report.
Condi	ions of Amended EC Extension dated 09.12.2015	
(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.
SI. No.	Condition of Notification	Compliance Status
1)	 Setting up technology solution for emission norms 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. 	Noted. Technology solutions are being implemented for mitigating fugitive emissions of Particulate Matter. • The Dust Extraction (DE) type dust control system is provided for controlling fugitive

SI. No.	Conditions of EC	Compliance Status
	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.	 dust emissions from dust generation points of coal handling system. Bag filter type dust extraction system with reversable pulse jet cleaning arrangement with fan, bag filter and stacks are provided at coal crusher house. Different types of dust suppression system and water sprinkling arrangements are already installed at various probable fugitive dust generation points. Plain water dust suppression for wagon tippler complex. Plain water dust suppression for Coal stockpile. Pre-wetting system for Wagon Tripler. Dry Fog dust suppression for all Transfer points.
2)	Management of Ash Ponds	Noted & being complied.
	 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. 	 Fly ash is being supplied to nearest cement industries and brick manufacture. Fly Ash generation and utilization is regularly submitted to MoEFCC, CPCB, CEA & CECB. Details is enclosed as Annexure IV.
	ii) Appropriate Technology solutions shall be applied to optimise water consumption for Ash management.	 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
	 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 	iii. Noted & being complied to meet 100% utilization of fly ash.
	 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. 	iv. Noted & will be complied as & when fly ash is disposed in abandoned or working mines

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

SI. No.	Conditions of EC	Compliance Status
3)	 Transportation 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. ii) It shall be ensured by the thermal power plant that: a) Rail siding facility or conveyer facility is set up at or near the power plant, for transportation by rail or conveyor 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. 	Rail siding facility has been made operational & coal is being transported through covered rail wagons.







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	: 20/05/2024
Period of Analysis	: 15/06/2024-20/06/2024
Receipt Date	: 15/06/2024

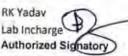
Sample Description : AMBIENT AIR QUALITY MONITORING General Information:-Sampling Location Near Raw Water Area ż Sample Collected By VTL Team Sampling Equipment used RDS/FPS Instrument Code VTL/RDS/FPS/01 Coordinates ÷ Meteorological condition during monitoring : Clear Sky Date of Monitoring : 11/06/2024 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 Requirment** Method of Sampling IS :5182 Sampling Duration 24 Hrs. Parameter Required As ner 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/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	33.62	µg/m³	60
k II	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	19.52	µg/m³	80
	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.69	µg/m³	60
	Benzene (as C6H6)	IS 5182 (P-11)-2006; RA.2017	*BLQ (**LOQ 1.0)	hð/w,	5
	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	"BLQ (""LOQ 2,0)	hð\w _a	400
	Ozone (as O3)	IS 5182 (P-9): 1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
	Lead (as Pb)	IS 5182 (P-22) - 2004, RA.2019	*BLQ (**LOQ 0.02)	hð/w _a	4
2	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	"BLQ (**LOQ 0.15)	ng/m³	6
2	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m³	20
	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/01			Report No.	: VTL/A/2406150001/A		
S.No.	Parameters	Test Method	Results	Units	Units NAAQS 2009	
*BLQ-Below	Limit Of Quantification, **LOQ-Li	mit Of Quantification			240 121 5181	

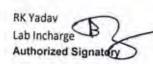
End of Report













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Name & Address of the Party : M/s ADANI POWER LIMITED Village- Ralkheda, 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 QUALIT		IONITORING
General Inform Sampling Location Sample Collected	ation:-	:	Near Raw Water Area
Sampling Equipm Instrument Code	nent used	: :	VTL Team RDS/FPS VTL/RDS/FPS/01
	ondition during monitoring	:	- Clear Sky
Date of Monitorin Time of Monitorin	ng	:	11/06/2024 To 12/06/2024 09:30 TO 09:30 Hrs.
Ambient Tempera Surrounding Acti	vity	:	Min. 28°C Max. 42°C Human, Vehicular & Other Act.
Scope of Monitor Method of Sampl Sampling Duratio	ing		Regulatory Requirment IS :5182
Parameter Requir		į.	24 Hrs. 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/m³	4
	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	232.0	hā/w"	-
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No,317	*BLQ(**LOQ-0.5)	µg/m³	÷

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

End of Report

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RK Yadav B Lab Incharge Authorized Signatory

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

2	VTL/A/2406150002/A
:	7.8 F-02
:	NIL
:	20/06/2024
:	15/06/2024-20/06/2024
	15/06/2024

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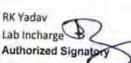
Sample Description	: AMBIENT AIR QUALI		IONITORING
General Inform	ation:-		IONITORING
Sampling Location		3	Near STP
Sample Collecter	the second	1	VTL Team
Sampling Equipr	ment used	:	RDS/FPS
Instrument Code		1	VTL/RDS/FPS/02
Coordinates		16	-
Meteorological c	ondition during monitoring	:	Clear Sky
Date of Monitorin	ng		11/06/2024 To 12/06/2024
Time of Monitorin	Time of Monitoring Ambient Temperature (°C)		10:00 TO 10:00 Hrs.
Ambient Tempera			Min. 28°C Max. 42°C
Surrounding Acti	Surrounding Activity Scope of Monitoring Method of Sampling		Human, Vehicular & Other
Scope of Monitor			Regulatory Requirment
			IS :5182
Sampling Duratio			and the other
Parameter Requir		1	24 Hrs.
, stanicter Requi	eu	12	As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2005, 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/mª	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA 2017	*BLQ (**LOQ 1.0)	µg/m³	5
	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	hð\w _a	1
	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
0	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m³	20
	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1











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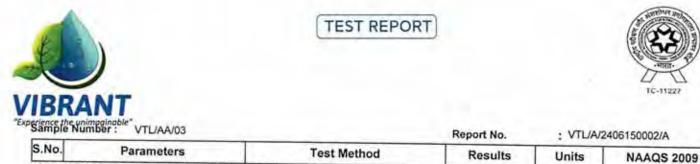
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*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

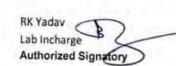
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Name & Address of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh

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 QUALIT	YM	ONITORING
General Inform Sampling Location	ation:-		
Sample Collected		-	Near STP VTL Team
Sampling Equips	nent used	4	RDS/FPS
Instrument Code		:	VTL/RDS/FPS/02
Coordinates		1	-
Meteorological co	ondition during monitoring	:	Clear Sky
Date of Monitorin	9		11/06/2024 To 12/06/2024
Time of Monitorin	ng	:	10:00 TO 10:00 Hrs.
Ambient Tempera	Ambient Temperature (°C) Surrounding Activity Scope of Monitoring		Min. 28°C Max. 42°C
Surrounding Acti			Human, Vehicular & Other Act.
Scope of Monitor			
Method of Sampl	ing	1	
Sampling Duratio	n	-	24 Hrs.
Parameter Requir	red	12	As per work order
Date of Monitorin Time of Monitorin Ambient Tempera Surrounding Acti Scope of Monitor Method of Sampl Sampling Duratio	ng ature (*C) vity ing ing on		11/06/2024 To 12/06/2024 10:00 TO 10:00 Hrs. Min. 28°C Max. 42°C Human, Vehicular & Other Regulatory Requirment IS :5182 24 Hrs.

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/m³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P-4) :1999, RA.2014	199.45	µg/m³	4
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m³	÷

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

End of Report

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RK Yadav B Lab Incharge Authorized Signatory

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

: AMBIENT AIR QUALITY MONITORING

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

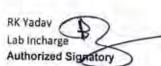
General Information:-	
Sampling Location	: Near Old Project Doosan
Sample Collected By	: VTL Team
Sampling Equipment used	: RDS/FPS
Instrument Code	: VTL/RDS/FPS/03
Coordinates	1
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 06/06/2024 To 07/06/2024
Time of Monitoring	: 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 Requirment
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/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	30.91	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	18.45	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2)-2001, RA. 2018	11.62	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)	hð\w ₃	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)	hð/w,	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
	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ	ng/mª	1











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Sample Number : VTL/AA/02			Report No.	: VTL/A/2	2406150003/A
S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
*BLQ-Below	Limit Of Quantification, **LOQ-Li	mit Of Quantification			1.1.1.4.4.4.4.4.4.4

End of Report









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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 QUALIT	V M	ONITORING
General Inform Sampling Location	ation:-		
Sample Collected		:	Near Old Project Doosan VTL Team
Sampling Equipr		:	RDS/FPS
Instrument Code		1	VTL/RDS/FPS/03
Coordinates		1	-
Meteorological c	ondition during monitoring	:	Clear Sky
Date of Monitorin	9	:	06/06/2024 To 07/06/2024
Time of Monitorin		1	10:30 TO 10:30 Hrs.
Ambient Tempera	ature (*C)	:	Min. 25°C Max. 41°C
Surrounding Acti		1	Human, Vehicular & Other Act.
Scope of Monitor	ing	11	Regulatory Requirment
Method of Sampl	2 F	2	IS :5182
Sampling Duratio		:	24 Hrs.
Parameter Requir	red	:	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/m³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	245.01	hð\w,	-
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m³	-

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

""End of Report""

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Name & Address of the Party : M/s ADANI POWER LIMITED Village- Ralkheda, 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 AR OUAL		Chitophic
General Informa Sampling Location Sample Collected Sampling Equipme Instrument Code Coordinates Meteorological con Date of Monitoring Time of Monitoring Ambient Temperat Surrounding Activi Scope of Monitorin Method of Samplin Sampling Duration	n By ent used ndition during monitoring ure ("C) ity ig	TY N	Village - Raikheda (Jitendra House) VTL Team RDS/FPS VTL/RDS/FPS/04 - Clear Sky 24/06/2024 To 25/06/2024 10:00 TO 10:00 Hrs. Min. 25°C Max. 32°C Human, Vehicular & Other Act. Regulatory Requirment IS :5182 24 Hrs.
Parameter Require	0	- 1	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/mª	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
5	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	hð\w ₂	180
	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m³	1
	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
0	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m³	20
	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1







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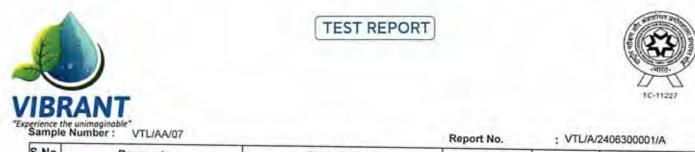
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	No. Parameters Test Method		Report No.	: VIL/A/2406300001/A		
S.No.	rest method Results	Results	Units NAAQS 2009			
BLQ-Below	Limit Of Quantification, **LOQ-Li	mit Of Quantification				

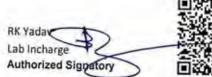
End of Report













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

Report No.	ł	VTL/A/2406300001/B
Format No	:	7.8 F-02
Party Reference No	:	NIL
Report Date	:	06/07/2024
Period of Analysis	1	30/06/2024-06/07/2024
Receipt Date	:	30/06/2024

Sample Description	The second second second second second		Receipt Date
Sample Description	: AMBIENT AIR QUALI	TYN	IONITORING
General Informa Sampling Location Sample Collected Sampling Equipm Instrument Code	n By		Village - Raikheda (Jitendra House) VTL Team RDS/FPS VTL/RDS/FPS/04
Coordinates		:	-
Meteorological co	ndition during monitoring	:	Clear Sky
Date of Monitoring Time of Monitoring		:	24/06/2024 To 25/06/2024 10:00 TO 10:00 Hrs.
Ambient Temperat	ure (°C)	:	Min. 25°C Max. 32°C
Surrounding Activ	ity	:	Human, Vehicular & Other Act.
Scope of Monitoria	ng		Regulatory Requirment
Method of Samplin	g	1	IS :5182
Sampling Duration		:	24 Hrs.
Parameter Require	d	4	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/m²	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P-4) 1999, RA.2014	158.00	hð\w _a	1
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m²	÷.

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

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"ExpSample Number able" 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/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 QUALIT	TY MO	ONITORING
General Informat Sampling Location Sample Collected B Sampling Equipme Instrument Code Coordinates	ion:- 3y nt used dition during monitoring ure (°C) ty 9		Village - Gaitara (Amardas House) VTL Team RDS/FPS VTL/RDS/FPS/04 Clear Sky 25/06/2024 To 26/06/2024 10:30 TO 10:30 Hrs. Min. 28°C Max. 37°C Human, Vehicular & Other Act. Regulatory Requirment IS :5182 24 Hrs. As per work order

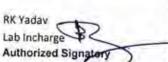
S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	51.02	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	24.96	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	10.84	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	7.12	µg/m ^x	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)	hð\w _a	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
	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/08		Report No.	: VTL/A/2406300002/A		
S.No.	Parameters	Test Method	Results	Units	ts NAAQS 2009	
*BLQ-Below	Limit Of Quantification, **LOQ-Li	mit Of Quantification				

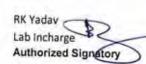
End of Report













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Samp

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

			the server and the server
ole Description	AMBIENT AIR QUALIT	TYN	IONITORING
General Inform Sampling Locati Sample Collecter	ation:- on	:	Village - Gaitara (Amardas House)
Sampling Equipr		1	VTL Team
and the second second second			RDS/FPS
Instrument Code		:	VTL/RDS/FPS/04
Coordinates		:	-
Meteorological c	ondition during monitoring	:	Clear Sky
Date of Monitorin	-	:	25/06/2024 To 26/06/2024
Time of Monitori	ng	:	10:30 TO 10:30 Hrs.
Ambient Temper		:	Min. 28°C Max. 37°C
Surrounding Act	ivity	:	Human, Vehicular & Other Act
Scope of Monitor	ring	:	Regulatory Requirment
Method of Sampl	ing	:	IS :5182
Sampling Duratio	n	1	24 Hrs.
Parameter Requi	red	:	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/m³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	149.00	µg/m³	÷
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed., 1988, Method No.317	*BLQ(**LOQ-0.5)	hð\w ₅	+

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

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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 QUALI	TYN	IONITORING
General Informa Sampling Location Sample Collected Sampling Equipment Instrument Code Coordinates Meteorological con Date of Monitoring Time of Monitoring Ambient Tempera Surrounding Active Scope of Monitoring Method of Sampling Sampling Duration Parameter Require	ation:- n By ent used andition during monitoring a g ture (°C) rity ng ng		Village - Chicholi (Vikash Rajput House) VTL Team RDS/FPS VTL/RDS/FPS/04 - Clear Sky 26/06/2024 To 27/06/2024 11:45 TO 11:45 Hrs. Min. 25°C Max. 36°C Human, Vehicular & Other Act. Regulatory Requirment IS :5182 24 Hrs. 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/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	25.42	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	10.26	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2)-2001, RA. 2018	8.32	µg/mª	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA 2017	*BLQ (**LOQ 1.0)	hð\w ₃	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	hð/wa	400
	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m³	180
3	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
	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA:2019	*BLQ (**LOQ 0.2)	ng/m³	1







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S.No. Parameters Tast Mothed Death Annual	: VTL/A/2406300003/A	
S.No. Parameters Test Method Results Units NAAQS	\$ 2009	

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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

			treading bute
Sample Description	: AMBIENT AIR QUALIT	TY N	IONITORING
General Informa Sampling Locatio Sample Collected	n	-	Village - Chicholi (Vikash Rajput House) VTL Team
Sampling Equipm	ent used		RDS/FPS
Instrument Code		:	VTL/RDS/FPS/04
Coordinates		1	-
Meteorological co	ndition during monitoring		Clear Sky
Date of Monitorin	9		26/06/2024 To 27/06/2024
Time of Monitorin	9	:	11:45 TO 11:45 Hrs.
Ambient Tempera	ture ("C)	:	Min. 25°C Max. 36°C
Surrounding Activ	vity	:	Human, Vehicular & Other Act.
Scope of Monitori	ng	:	Regulatory Requirment
Method of Sampli	ng	:	IS :5182
Sampling Duration	n	:	24 Hrs.
Parameter Require	ed	:	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/m³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	159.41	hð\w ₃	- 4
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m³	

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

End of Report

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

: VTL/A/2406300004/A
: 7.8 F-02
: NIL
: 06/07/2024
: 30/06/2024-06/07/2024
: 30/06/2024

Sample Description : AMBIENT AIR QUALITY MONITORING General Information:-Sampling Location Village - Mura (Near Petrol Pump) Sample Collected By VTL Team 2 Sampling Equipment used RDS/FPS 1 Instrument Code VTL/RDS/FPS/04 ż Coordinates 2 -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 Requirment** 1 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/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	23.01	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	12.41	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.56	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	µg/mª	5
	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	µg/m³	400
	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4,0)	µg/m³	180
	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	µg/m³	1
	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m³	6
0	Nickel (as Ni)	USEPA compendium IO-3.2,1999	*BLQ (**LOQ 5.0)	ng/m ^s	20
	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/mª	1







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Sample Nur	nber: VTL/AA/08		Report No.	: VTL/A/2	2406300004/A
S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
*BLQ-Below	Limit Of Quantification, "LOQ-L	mit Of Quantification		onico	114423 2003

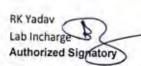
End of Report













Page No. 2/2

Vibrant Techno Lab Pvt. Ltd.

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- bd@vibranttechnolab.com
- twww.vibranttechnolab.com



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

	theorem wate
Sample Description : AMBIENT AIR QU	ALITY MONITORING
General Information:- Sampling Location Sample Collected By	: Village - Mura (Near Petrol Pump) : VTL Team
Sampling Equipment used	: RDS/FPS
Instrument Code	: VTL/RDS/FPS/04
Coordinates	1
Meteorological condition during monitori	ng : 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 Requirment
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/m³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P-4) :1999, RA.2014	146.22	µg/m³	÷
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m³	÷

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

End of Report

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RK Yadav	
Lab Incharge	_
Authorized Signatory	

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Sampling Description:

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

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

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

BOTTOM ASH

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

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

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

TEST RESULTS





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Sampling Description:

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

POND ASH

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

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

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

TEST RESULTS





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Sample

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	ł	7.8 F-03
Party Reference No	:	NIL
Report Date	5	29/06/2024
Period of Analysis	:	23/06/2024-29/06/2024
Receipt Date	;	23/06/2024

Description	: Stack Emission	Mon	itoring
General Informa	tion:-		
Sampling Location	1	;	Stack Unit-I
Sample Collected	Ву	1	VTL Team
Date of Sampling		:	15/06/2024
Sampling duration	(Minutes)	.1	34 min. (11:40 to 12:14 hrs.)
Stack attached to		:	ESP
Make of stack		1	MS
Diameter of stack(m)	1	7.5 m
Height of stack(m)		:	275 m
Instrument calibra	tion status	:	Calibrated
Meteorological Co	ndition	;	Clear Sky
Ambient Temperat	ure - Ta (°C)	.:	38°C
Temperature of St	ack Gases - Ts (*C)	:	133*c
Velocity of Stack C	Gases (m/sec.)	:	20.10
Flow rate of PM (L	PM)	:	29
Flow rate of Gas (I	LPM)	:	2.0
Sampling conditio	n	;	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 (SO2)	IS: 11255(P-2): 1985, RA.2019	923.12	mg/Nm3
3	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017	235.96	mg/Nm3
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ001)	mg/Nm3

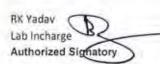
*BLQ= Below Limit Of Quantification, **LOQ= Limit Of Quantification

End of Report Experience the unimaginable?











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Sample

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

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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

D	ramatore		Tool Math
Coordinates		:	÷
Protocol used		:	IS 11255 & USEPA
Sampling condit	ion	:	OK
Flow rate of Gas	(LPM)	:	2.0
Flow rate of PM	(LPM)	:	31
Velocity of Stack	Gases (m/sec.)	1	21.10
Temperature of S	Stack Gases - Ts (°C)	1	130°c
Ambient Temper		;	37°C
Meteorological C	Condition	:	Clear Sky
Instrument calib	ration status	:	Calibrated
Height of stack(r	n)	:	275 m
Diameter of stac	k(m)	:	7.5 m
Make of stack		:	MS
Stack attached to	0	:	ESP
Sampling duration	on (Minutes)	:	32 min. (11:00 to 11:32 hrs.)
Date of Sampling	9	2	15/06/2024
Sample Collecte	d By	:	VTL Team
General Inform Sampling Locati		:	Stack Unit-II
Description	: Stack Emission	Mor	nitoring

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	ing/Nm3
3	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017	243.00	mg/Nm3
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ001)	mg/Nm3

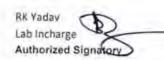
*BLQ= Below Limit Of Quantification, **LOQ= Limit Of Quantification

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TC	11227

N/O	1	Report No.
rty : M Vi	: M/s ADANI POWER LIMITED	Format No
	Village- Raikheda, Block- Tilda Raipur 493225	Party Reference M
	Chhattisgarh	
		Report Date
		Receipt Date
	: Ambient Noise Level Monitoring	Sampling Duratio

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

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	· othereses

: VTL/N/2406230001/A

General Information:-

Sampling Location	-	Near Admin Building
Instrument Code	:	VTL/SLM/01
Meteorological condition during monitoring	1	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 i	n dB(A) Leg*
		Day Time	Night Time
A	Industrial area	75	70
В	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.

2. Night Time is reckoned between 10.00 PM to 5.00 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.

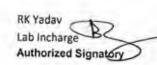
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

"End of Report""











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TL/AN/0	2		Report No.
e Party	;		Format No
		Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh	Party Refer
		omausgan	Report Dat
			Receipt Da

Sample Description	: Ambient Noise Level Monitoring
Scope of Monitoring	: Regulatory Requirment
Protocol Used	: 15 9989
Instrument Used	: SLM
General Inform	ation:-

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 Calibration Status	: Calibrated

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)	1	Min. 23°C Max. 35°C
Surrounding Activity	:	Human, Vehicular & Other Act.
Parameter Required	:	As per work order
Coordinates	1	

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

Area Code Category of Area/Zone		Limits	n dB(A) Leg*
		Day Time	Night Time
<u>A</u>	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.

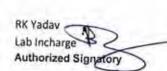
2. Night Time is reckoned between 10.00 PM to 6.00 AM. 3.5ilence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in triese zones. Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

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42.1

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Experience the unimaginable* Sample Number : VTL/AN/0 Name & Address of the Party Sample Description	: M/s ADANI POWER LI Village- Raikheda, Bloc Chhattisgarh	:k- T	ilda Raipur 493225	Report No, Format No Party Reference No Report Date Receipt Date	: VTL/N/2406230003/A : 7.8 F-04 : NIL : 29/06/2024 : 23/06/2024		
Scope of Monitoring	: Ambient Noise Level I		itoring	Sampling Duration	: 24 Hrs.		
Protocol Used	: Regulatory Requirment : IS 9989			Sample Collected	: VTL Team		
Instrument Used	: SLM			Instrument Calibration Status	; Calibrated		
General Informatio	m:-		Cantration Status				
Sampling Location		-	Gate No2 (Gaitara G	sate)			
	tion during monitoring	-	VTL/SLM/02				
Date of Monitoring	uon during monitoring		Clear Sky				
		÷	17/06/2024 To 18/06/2	024			
Time of Monitoring			: 06:00 TO 06:00 Hrs.				
Ambient Temperature	(-C)	4	Min. 21°C Max. 37°C				
Surrounding Activity		:	Human, Vehicular & O	ther 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

Area Code	Category of Area/Zone	Limitsi	n dB(A) Leg*
		Day Time	Night Time
Α	Industrial area	75	70
В	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.

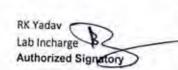
2. Night Time is reckaned between 10.00 PM to 6.00 AM. 3.Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in Note: Mixed categories of areas be declared as one of the four above mentioned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

"End of Report""











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Sample Number : VTL/AN/0	4		Report No.	: VTL/N/2406230004/A
Name & Address of the Party : M/s ADANI POWER LI		MITED	Format No	: 7.8 F-04
	Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh		Party Reference No	: NIL
			Report Date	: 29/06/2024
			Receipt Date	: 23/06/2024
Sample Description	: Ambient Noise Level	Monitoring	Sampling Duration	: 24 Hrs.
Scope of Monitoring	: Regulatory Requirment		Sample Collected	: VTL Team
Protocol Used Instrument Used	: IS 9989 : SLM		Instrument Calibration Status	: Calibrated
General Informatio	m:-			
Sampling Location		Near Gate No01		
Instrument Code		: VTL/SLM/02		
Meteorological condi	tion during monitoring	: Clear Sky		
Date of Monitoring		: 14/06/2024 To 15/06	5/2024	
Time of Monitoring Ambient Temperature ("C)		: 06:00 TO 06:00 Hrs.		
		: 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)	
1111			Day Time	Night Time
1 Leq		IS 9989 - 1981 RA:2020	53.7	42.1

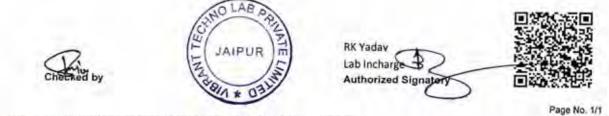
Area Code	Category of Area/Zone	Limits in dB(A) Leg*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

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 trackers is banned in

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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xpsimple wamberable" VTL/AN/0	5		A	
Name & Address of the Party	: M/s ADANI POWER LI Village- Raikheda, Bloc Chhattisgarh		Report No. Format No Party Reference No Report Date	: VTL/N/2406230005/A : 7.8 F-04 : NIL : 29/06/2024
Sample Description Scope of Monitoring Protocol Used Instrument Used	Ambient Noise Level I Regulatory Requirment IS 9989 SLM	toring	Receipt Date Sampling Duration Sample Collected Instrument Calibration Status	: 23/06/2024 : 24 Hrs. : VTL Team : Callbrated
General Informatio Sampling Location Instrument Code Meteorological condit Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity	tion during monitoring	 Near Mura Village Gate VTL/SLM/03 Clear Sky 17/06/2024 To 18/06/20 05:00 TO 06:00 Hrs. Min. 22°C Max. 37°C Human, Vehicular & Ott	24	

As per work order 1

Coordinates

Parameter Required

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

Area Code	Category of Area/Zone	Limits in dB(A) Leg*	
		Day Time	Night Time
A	Industrial area	75	70
В	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.

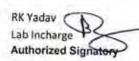
3.Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones. Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority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

"End of Report"











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*PSample Number one VTL/AN/06	5			Report No.	: VTL/N/2406230006/A
Name & Address of the Party	: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh			Format No Party Reference No	: 7.8 F-04 : NIL
				Report Date Receipt Date	: 29/06/2024 : 23/06/2024
Sample Description	: Ambient Noise Level I	vel Monitoring		Sampling Duration	: 24 Hrs.
Scope of Monitoring	itoring : Regulatory Requirment			Sample Collected	: VTL Team
Protocol Used : IS 9989					
Instrument Used	; SLM			Instrument Calibration Status	; Calibrated
General Informatio	n:-			Construction of the second	
Sampling Location Instrument Code Meteorological condition during monitoring Date of Monitoring		:	Gate No3 (Bhatapara)	
		:	VTL/SLM/04		
		1	Clear Sky		
			17/06/2024 To 18/06/2	024	
Time of Monitoring			06:00 TO 06:00 Hrs.		
Ambient Temperature	1901				

Ambient Temperature (°C) Surrounding Activity Parameter Required

Coordinates

Min. 22°C Max. 37°C Human, Vehicular & Other Act. z

As per work order

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

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

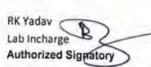


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Vibrant Techno Lab Pvt. Ltd.

SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020

9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

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L/AN/07	Report No.	: 1
Party : M/s ADANI POWER LIMITED	Format No	. 7
Village- Raikheda, Block- Tilda Raipur 49322	25 Party Reference No	: 1
Chhattisgarh	Report Date	: 2
	Receipt Date	: 2
: Ambient Noise Level Monitoring	Sampling Duration	:2

Sample Description
Scope of Monitoring
Protocol Used
Instrument Used

: Regulatory Requirment : IS 9989 : SLM

: VTL/N/2406230007/A
: 7.8 F-04
: NIL
: 29/06/2024
: 23/06/2024
: 24 Hrs.
: VTL Team
Calibrated

General Information:-

a constant is a sharehold in the	
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 Re:	sult dB(A)
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	51.2	39.7

Area Code	Category of Area/Zone	Limits i	n dB(A) Leq*
1		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.

 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.

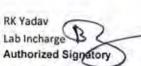
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

""End of Report""











Page No. 1/1

Vibrant Techno Lab Pvt. Ltd.

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

Sample Description	: Ambient Noise Level Monitoring	
Course of M. H.		
Scope of Monitoring	: Regulatory Requirment	
Protocol Used	: IS 9989	
Instrument Used	: SLM	
General Inform	ation:-	·

Report No.	: VTL/N/2405230008/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 Calibration Status	; Calibrated

General Information:-	
Sampling Location Instrument Code	Near Weigh Bridge 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 Le	p	IS 9989 - 1981 RA:2020	59.7	49.6

Area Code	Category of Area/Zone	Limits i	n dB(A) Leq*
		Day Time	Night Time
A	Industrial area	75	70
В	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.

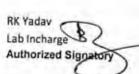
2. Night Time is reckoned between 10.00 PM to 6.00 AM. 3.Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in

nese rones. 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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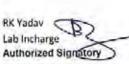


-	<u> </u>					TQ-11
B	RANT			ULR No.	: TC1122724	cooperative
			time the second	Report No.	: VTL/W/2408	5230011/A
Name	& Address of the Party	: M/s ADANI PO		Format No	÷ 7.8 F-01	
		Chhallisgarh	da, Block- Tilda Raipur 493225	Party Reference No	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		erniettie Berri		Report Date	: 29/06/2024	and a state of the
			746	Period of Analysis	: 23/06/2024-	29/06/2024
	le Description	SURFACE WA		Receipt Date	: 23/06/2024	
	ling Location le Collected By	: Mura Pond Wa : VTL Team	ter	Sampling Date Sampling Type	: 16/05/2024 : Grab	
	rvation	: Refrigerated		Sample Quantity	:2 Ltr	
	od of sampling	: 15 3025		Coordinates	: NA	
S.No.			Test Method	Resu	lits	Unit
1	pH value		IS: 3025 (P-11): 2022	6.92	2	- 1 A
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 2	017 4.5		NTU
3	Total Dissolved Solids (T	DS)	IS : 3025 (P-16) : 1984, RA 20	317 370.	0	mg/l
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 20	101 (01	mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec.RA	2022 23.5	2	mg/l
6	Total Alkalinity (as CaCO	03)	IS: 3025 (P-23) . 1986, RA 20	019 142.	.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 20	019 142.0	03	mg/l
8	Calcium (as Ca)		IS : 3025 (P-40) : 1991 RA 20	30.2	5	mg/l
9	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 2	019 16.1	7	mg/l
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 20	017 D.63	3	mg/l
11	Phenolic compounds		APHA 23rd Edition, 5530C, 20	017 *BLQ(**LO	Q-0.001)	mg/l
12	Dissolved oxygen (DO)	·	IS : 3025 (P -38) : 1989, RA 2	2019 5.9	1	mg/l
13	Biochemical Oxygen De days at 27°C)	mand (BOD) (3	IS: 3025 (P-44) : 1993, RA : 20	019 12.	5	mg/l
14	Chemical Oxygen Dema	nd (COD)	IS : 3025 (P- 58) ' 2006 RA 2	2017 49.5	56	mg/l
15	Iron (as Fe)		APHA 23rd Edition,3111B, 20	017 *BLQ(**L0	DQ-0.1)	mg/l
18	Zinc (as Zn)		APHA 23rd Edition 3030D,31 2017	138, *BLQ(**L0	DQ-0.2)	mg/l
17	Copper (as Cu)	Fr	APHA 23rd edition, 3111B, 2	017 *BLQ(**LC	Q-0.02)	mg/l
18	Manganese (as Mn)	-	APHA 23rd Edition, 3030D,31 2017	13B, *BLQ(**LC)Q-0.05)	mg/l
19	Lead (as Pb)		APHA 23rd Edition, 3030D,31 2017	13B, *BLQ(**LO	Q-0 005)	/lgm
20	Arsenic (as As)		APHA 23rd Edition, 3030D,31 2017	14C, *BLQ(**LO	Q-0.005)	mg/l
21	Boron (as B)		APHA 23rd Edition, 4500D, 2	017 'BLQ("L	OQ-5.0)	mg/l
A	and the second se					



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perlence	e Number : VTL/SW/01		R No. : TC1122724 port No. : VTL/W/240	
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
	D DIDIDIDI N.			

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

End of Report









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	e Number: VTL/SW/0	1		Report No.	: VTL/W/2406	5230011/B
Name & Address of the Party :		: M/s ADANI POWER LIMITED		Format No	: 7.8 F-01	
		and the second se	a, Block- Tilda Raipur 493225	Party Reference No		
		Chhattisgarh		Report Date	; 29/06/2024	
				Period of Analysis	: 23/06/2024-	29/06/2024
Samp	le Description	: SURFACE WAT	ER	Receipt Date	: 23/06/2024	
Samp	ling Location	: Mura Pond Wate	ir	Sampling Date	: 16/06/2024	
Samp	le Collected By	: VTL Team		Sampling Type	Grab	
Prese	rvation	: Refrigerated		Sample Quantity	: 2 Ltr	
Metho	od of sampling	: IS 3025		Coordinates	: NA	
S.No.	Test Param	neters	Test Method	Resu	Its	Unit
1	Colour		IS: 3025 (P-4): 2021	"BLQ("LC	Q-5.0)	CU
2	Odour		IS: 3025 (P-5): 2018	Agreea	able	
3	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017	7 *BLQ(**LC	DQ-5.0)	тgЛ
4	Aluminium (as Al)		IS: 3025: (P-55) 2003, RA 201	9 *BLQ(**LO	Q-0.03)	mg/i
5	Oil & Grease		IS : 3025 (P-39) 1991, RA 2019	BLQ(**LC	Q-4.0)	mg/l
6	Anionic Detergents (MB	AS)	APHA 23rd ed., 2017, 5530C	"BLQ(""LC	Q 0.02)	mg/l

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

End of Report









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IB	RANT			ULR No.	: TC11227240	TC-
erience	the unimoginable" e Number: VTL/SW/0	2		Report No.	+ TC11227240	
	& Address of the Party	-	WER LIMITED	Format No	· 7.8 F-01	20001214
autic	a Address of the Farty		da, Block- Tilda Raipur 493225	Party Reference No		
		Chhattisgarh	Children of the start	Report Date	: 28/06/2024	
				Period of Analysis	: 23/06/2024-2	29/06/2024
Sampl	e Description	: SURFACE WA	TER	Receipt Date	: 23/06/2024	
Sampl	ing Location	: Chicholi Pond	Water	Sampling Date	± 16/06/2024	
Sampl	e Collected By	: VTL Team		Sampling Type	: Grab	
	vation	: Refrigerated		Sample Quantity	: 2 Ltr	
Metho	d of sampling	: IS 3025		Coordinates	:NA	
S.No.	Test Param	eters	Test Method	Resu		Unit
1	pH value		IS : 3025 (P-11) : 2022	7,16		+
2	Turbidity		IS: 3025 (P-10): 1984, RA 20			NTU
3	Total Dissolved Solids (T	DS)	IS : 3025 (P-16) : 1984, RA 20	1.71		mg/l
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 20	19 31.2	6	mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec.RA	2022 24.1	6	mg/l
6	Total Alkalinity (as CaCO	03)	IS: 3025 (P- 23) 1986, RA 20	19 152.0	00	mg/i
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 20	19 121	0	mg/l
8	Calcium (as Ca)		IS : 3025 (P-40) : 1991 RA 20	19 29.5	6	mg/l
9	Magnesium (as Mg)		IS : 3025 (P- 46) · 1994, RA 20	019 11.4	8	mg/l
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 20	017 0.7	6	mg/l
11	Phenolic compounds		APHA 23rd Edition, 5530C, 20	017 "BLQ(**LO	Q-0.001)	mg/l
12	Dissolved oxygen (DO)		IS: 3025 (P -38) . 1989, RA 2	019 6.3		mg/l
13	Biochemical Oxygen De days at 27°C)	mand (BOD) (3	IS: 3025 (P-44) : 1993, RA : 20	019 8.5		mg/l
14	Chemical Oxygen Dema	nd (COD)	IS 3025 (P-58) 2006 RA 2	2017 35.2	26	mg/l
15	Iron (as Fe)		APHA 23rd Edition,3111B, 20	017 *BLQ(**L0	OQ-0.1)	mg/l
16	Zinc (as Zn)		APHA 23rd Edition, 3030D,31 2017	13B, *BLQ(**L0	0Q-0.2)	mg/i
17	Copper (as Cu)	E.	APHA 23rd edition, 3111B, 20	017 *BLQ(**LC	Q-0.02)	mg/l
18	Manganese (as Mn)		APHA 23rd Edition, 3030D,31 2017	13B, *BLQ(**LC	Q-0.05)	mg/l
19	Lead (as Pb)		APHA 23rd Edition, 3030D.31 2017	13B. *BLQ(**LO	Q-0.005)	mg/l
20	Arsenic (as As)		APHA 23rd Edition, 3030D,31 2017	14C, *BLQ(**LO	Q-0.005)	mg/l
21	Boron (as B)		APHA 23rd Edition, 4500D, 21	017 *BLQ(**L	0Q-5.0)	mg/l





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perience	the unimaginable" e Number : VTL/SW/02		R No. ‡ TC1122724 port No. ; VTL/W/240	
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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perience	the unimaginable					
Samp	le Number : VTL/SW/0	2		Report No.	: VTL/W/2408	\$230012/B
Name	& Address of the Party	M/s ADANI POV	VER LIMITED	Format No	: 7.8 F-01	
			la, Block- Tilda Raipur 493225	Party Reference No	:	
		Chhaltisgarh		Report Date	: 29/06/2024	
				Period of Analysis	: 23/06/2024-	29/06/2024
Samp	le Description	: SURFACE WAT	ER	Receipt Date	: 23/08/2024	
Samp	ling Location	: Chicholi Pond V	Vater	Sampling Date	: 16/06/2024	
Samp	le Collected By	: VTL Team		Sampling Type	1 Grab	
Prese	rvation	: Refrigerated		Sample Quantity	\$ 2 Ltr	
Metho	od of sampling	: IS 3025		Coordinates	t NA	
S.No.	Test Param	eters	Test Method	Resu	lts	Unit
1	Colour		IS : 3025 (P-4) : 2021	"BLQ(""LC	Q-5.0)	CU
2	Odour		IS: 3025 (P-5): 2018	Agreea	ble	-
3	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017	"BLQ(""LC	Q-5.0)	mg/l
4	Aluminium (as Al)		IS: 3025: (P-55) 2003, RA 2019	BLQ(**LO	Q-0.03)	mg/l
5	Oil & Grease		IS : 3025 (P-39) 1991, RA 2019	'BLQ("'LC	Q-4.0)	mg/l
6	Anionic Detergents (MB/	AS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LO	Q.0.02)	mg/i
-			the second s			

*BLO Blow limit of Quantification **LOO Limit of Quantification

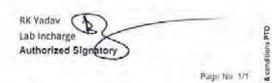
End of Report











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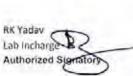


	the unimaginable* le Number : VTL/SW/0	9		ULR No.	: TC1122724 : VTL/W/240	
		M/s ADANI PO	ARED I MITER	Report No.		osann aw
Name	& Address of the Party		da, Block- Tilda Raipur 493225	Format No	: 7.8 F-01	
Chhattisgarh		pa, biook- niba Kaipui 485220	Party Reference No	and the second second		
			Report Date	: 29/06/2024		
	le Description		10	Period of Analysis		64. 7 B A C
	ling Location	SURFACE WA		Receipt Date	: 23/06/2024	
100	le Collected By	: Raikheda Pond : VTL Team	water	Sampling Date Sampling Type	: Grab	
	rvation	: Refrigerated		Sample Quantity	: 2 Ltr	
100.00	od of sampling	: IS 3025		Coordinates	: NA	
S.No.			Test Method	Rest		Unit
1	pH value		IS: 3025 (P-11): 2022	7.2	3	~
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 20	017 4.4	4	NTU
3	Total Dissolved Solids (TI	DS)	IS : 3025 (P-16) : 1984, RA 20	17 460	0	mg/l
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 20	19 53.1	26	mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec.RA :	2022 21	56	reg/l
6	Total Alkalinity (as CaCC	33)	IS: 3025 (P- 23) - 1986, RA 20	19 142	.0	ing/t
7	Total Hardness (CaCO3)		IS: 3025 (P- 21) : 2009, RA 20	19 135	0.0	mgi)
В	Calcium (as Ca)		IS: 3025 (P-40): 1991 RA 20	19 32.	14	/\tem
9	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 20	13,3	32	mg/(
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 20	0.4	3	mg/i
11	Phenolic compounds		APHA 23rd Edition, 5530C, 20	17 "BLQ("LO	0-0.001)	mgil
12	Dissolved oxygen (DO)		IS : 3025 (P -38) : 1989, RA 2	019 5.6	5	mg/i
13	Biochemical Oxygen Der days at 27°C)	nand (BOD) (3	IS: 3025 (P-44) : 1993, RA † 20	19 16.	5	img/l
14	Chemical Oxygen Deman	d (COD)	15 : 3025 (P- 58) : 2006 RA 2	017 59.4	42	\u00ed_md_lr
15	tron (as Fe)		APHA 23rd Edition,3111B, 20	17 *BLQ(**L	00-0.1)	nig/i
16	Zinc (as Zn)	N. N	APHA 23rd Edition, 3030D,311 2017	38. *BLQ(**L	OQ+0 2)	mg/t
17	Copper (as Cu)	-	APHA 23rd edition, 3111B, 20	17 'BLQ(**LC	00-0.02)	ពាច្ន/រ
18	Manganese (as Mn)	1.1	APHA 23rd Edition, 3030D,311 2017	3B, *BLQ(**LC	DQ-0.05)	mgli
19	Lead (as Pb)		APHA 23rd Edition, 3030D,311 2017	38, "BLQ(**LO	Q-0.005)	ing/l
20	Arsenic (as As)		APHA 23rd Edition, 3030D,311 2017	4C, *BLQ(**LO	Q+0.005)	mgrī
21	Boron (as B)		APHA 23rd Edition, 4500D, 20	17 *BLQ(**L	00-5.0)	nig/l











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	the unimaginable" le Number : VTL/SW/03		R No. : TC1122724 port No. : VTL/W/240	
S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/)
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)	тgЛ
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l
-				

"BLQ Blow limit of Quantification "LOQ Limit of Quantification

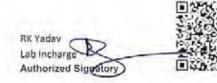
End of Report













Page No. 2/2

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 9929108691, 9810205356, 8005707098, 9549956601

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Sampl	le Number : VTL/SW/0	3		Report No.	: VTL/W/2408	5230013/B
Name & Address of the Party		: M/s ADANI POV Village- Raikhed	VER LIMITED fa, Block- Tilda Raipur 493225	Format No Party Reference No	: 78F-01	
		Chhattisgarh		Report Date	: 29/06/2024	
				Period of Analysis	: 23/06/2024-	29/06/2024
Samp	le Description	SURFACE WAT	TER	Receipt Date	: 23/06/2024	
Samp	ling Location	: Raikheda Pond	Water	Sampling Date	: 16/06/2024	
Samp	le Collected By	: VTL Team		Sampling Type	1 Grab	
Prese	rvation	: Refrigerated		Sample Quantity	:210	
Metho	d of sampling	: 18 3025		Coordinates	: NA	
S.No.	Test Param	eters	Test Method	Resu	lts	Unit
1	Colour		IS : 3025 (P-4) : 2021	"BLO(""LO	00-5.0)	ÇU
2	Odour		IS : 3025 (P-5) : 2018	Agreea	able	
3	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017	7 *BLQ(**LQ	0Q-5.0)	mg/l
4	Aluminium (as Al)	1000 C 1000	IS 3025 : (P-55) 2003, RA 201	9 *BLQ(**LO	Q-0.031	mg/l
5	Oil & Grease		IS : 3025 (P-39) 1991, RA 2019	BLQ(**LC	00-4.0)	mg/l
6	Anionic Detergents (MB/	AS)	APHA 23rd ed., 2017, 5530C	"BLQ("LO	Q 0 02)	mg/l
	the second se					

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

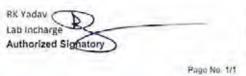
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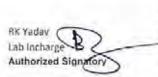


	the unimaginable"			ULR No.	: TC1122724	
1.1.1.4	le Number : VTL/SW/0	A second se		Report No.	: VTL/W/2408	6230014/A
Name	& Address of the Party	: M/s ADANI PO	The second se	Format No	2.78F-01	
		Village- Raikhe Chhattisgarh	da, Block- Tilda Raipur 493225	Party Reference No	6.1	
	Cuustasdau			Report Date	: 29/06/2024	
				Period of Analysis	: 23/06/2024-	29/06/2024
100	le Description	SURFACE WA	TER	Receipt Date	\$ 23/06/2024	
	ling Location	: Gaitara Pond V	Vater	Sampling Date	3 16/06/2024	
	le Collected By	: VTL Team		Sampling Type	Grab	
100	rvation	: Refrigerated		Sample Quantity	: 2 Lt/	
	od of sampling	: 18 3025	1	Coordinates	: NA	
S.No.	. Test Param	eters	Test Method	Resu		Unit
(pH value		IS: 3025 (P-11): 2022	7.3	6	
2	Turbidity		IS: 3025 (P- 10) 1984, RA 20	017 3.8	1	NTU
3	Total Dissolved Solids (T	DS)	IS : 3025 (P-16) : 1984, RA 20	485	.0	mg/l
ł.	Chloride (as Cl)		IS: 3025 (P-32) 1988, RA 20	19 65.9	8	mg/i
5	Sulphate as (SO4)		15: 3025 (P- 24) : 1986, Sec.RA	2022 25.7	4	ng/l
8	Total Alkalinity (as CaCC	03)	IS: 3025 (P- 23) 1 1986, RA 20	201	0	mg/l
7	Total Hardness (CaCO3)		IS: 3025 (P- 21) : 2009, RA 20	165	.0	nagit
8	Calcium (as Ca)		IS : 3025 (P-40) : 1991 RA 20	19 26.5	19	/mg/l
9	Magnesium (as Mg)		IS ; 3025 (P- 46) : 1994, RA 20	23.9	7	mg/(
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 20	0.6	2	mg/l
11	Phenolic compounds		APHA 23rd Edition, 5530C, 20	917 *BLQ(**LO	Q-0.001	mg/l
12	Dissolved oxygen (DO)		IS : 3025 (P -38) : 1989, RA 2	019 5.9	1	ing/l
13	Biochemical Oxygen Der days at 27°C)	mand (BOD) (3	(S: 3025 (P-44) : 1993, RA : 20	019 12.	5	mg/(
14	Chemical Oxygen Deman	d (COD)	IS : 3025 (P- 58) : 2006 RA 2	017 42.5	6	(ng/)
15	Iron (as Fe)		APHA 23rd Edition,3111B, 20	17 *BLQ(**L0	DQ-0,1)	/mg/l
16	Zinc. (as Zn)	_ V	APHA 23rd Edition, 3030D,311 2017	13B, 'BLQ(**L0	00-0.2)	тgЛ
17	Copper (as Cu)		APHA 23rd edition, 3111B, 20	917 BLQ("LQ	Q-0.02)	mg//
A	Manganese (as Mn)	-	APHA 23rd Edition, 3030D,311 2017	13B, *BLQ(**LO	Q-0.05)	mg/l
19	Lead (as Pb)		APHA 23rd Edition, 3030D,311 2017	13B, *BLQ(**LO	Q-0.005)	mg/l
20	Arsenic (as As)		APHA 23rd Edition, 3030D,311 2017	140, *BLQ(**LO	Q-0.005)	mg/i
21	Boron (as B)		APHA 23rd Edition, 4500D, 20	117 *BLQ(**L0	00-5.0)	mg/l











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the unimoginable" e Number : VTL/SW/04			
Test Parameters	Test Method	Results	Unit
Chromium (as Cr)	APHA 23rd Edition, 3113B, 2017	'BLQ("'LOQ-0.02)	mg/l
Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mgil
	he unimoginoble" e Number : VTL/SW/04 Test Parameters Chromium (as Cr) Cadmium (as Cd) Selenium (as Se)	Intermised in oble* UL e Number : VTL/SW/04 Reg Test Parameters Test Method Chromium (as Cr) APHA 23rd Edition,3113B, 2017 Cadmium (as Cd) APHA 23rd Edition,3113B, 2017 Selenium (as Se) APHA 23rd Edition,3114C, 2017	Inclusion of the unimoglinoble" ULK No. Inclusion of the transmission of transmis

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

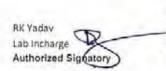
""End of Report""













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et all all all all all all all all all al	the milling Mildent					
Samp	le Number : VTL/SW/0	4		Report No.	: VTL/W/2408	5230014/B
Name	& Address of the Party	: M/s ADANI POV	VER LIMITED	Format No	: 7.8 F-01	
		Village- Raikhed	la, Block- Tilda Raipur 493225	Party Reference No	:	
		Chhallisgarh		Report Date	: 29/06/2024	
				Period of Analysis	: 23/06/2024-	29/06/2024
Samp	le Description	: SURFACE WAT	ER	Receipt Date	1 23/06/2024	
Samp	ling Location	: Gaitara Pond W	ater	Sampling Date	: 15/06/2024	
Samp	le Collected By	: VTL Team		Sampling Type	: Grab	
Prese	rvation	: Refrigerated		Sample Quantity	: 2 Ltr	
Meth	od of sampling	: IS 3025		Coordinates	: NA	
S.No	Test Param	eters	Test Method	Resul	its	Unit
1	Colour		IS: 3025 (P-4): 2021	"BLQ(""LO	Q-5.0)	CU
2	Odour		IS: 3025 (P-5): 2018	Agreea	ble	-
3	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017	"BLQ("LO	Q-5.0)	'ngn
4	Aluminium (as Al)		IS ; 3025 : (P-55) 2003, RA 2019	BLQ(**LO	Q-0.03)	ing/l
5	Oil & Grease		IS : 3025 (P-39) 1991, RA 2019	"BLQ(""LO	Q-4.0)	mg/l
6	Anionic Detergents (MBA	SI	APHA 23rd ed., 2017, 5530C	"BLQ(""LO	0.0.02)	ma/l

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

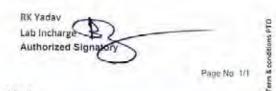
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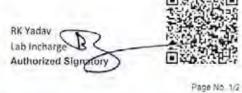


berlence	the unimaginable"			ULR No.	: TC1122724	000001305F
Samp	le Number : VTL/SW/C	15		Report No.	: VTL/W/240	6230015/A
Name	& Address of the Party	: M/s ADANI PO	WER LIMITED	Format No	; 7.8 F-01	
			da, Block- Tilda Raipur 493225	Party Reference No	1.1	
		Chhattisgarh		Report Date	: 29/06/2024	
				Period of Analysis	; 23/06/2024	29/06/2024
Samp	le Description	: SURFACE WA	TER	Receipt Date	1 23/06/2024	
Samp	ling Location	: Bangoli Dam		Sampling Date	: 16/06/2024	
C	le Collected By	: VTL Team		Sampling Type	‡ Grab	
	rvation	: Refrigerated		Sample Quantity	‡2 Lti	
	od of sampling	: IS 3025		Coordinates	‡NA	
S,No.	10011 0101	neters	Test Method	Resu		Unit
1	pH value		IS: 3025 (P-11): 2022	6.9		-
2	Turbidity		IS: 3025 (P-10): 1984, RA 20	14		NTU
3	Total Dissolved Solids (T	DS)	IS : 3025 (P-16) : 1984, RA 20		.0	mg/l
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 20	19 73.2	16	mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986,Sec.RA 2	2022 24.5	9	mg/l
6	Total Alkalinity (as CaCO	ty (as CaCO3) IS: 3025 (P- 23) : 1986, RA 2019 1	19 131	Û	mg/i	
7	Total Hardness (CaCO3))	IS: 3025 (P- 21) : 2009, RA 20	19 142	.6	mg/l
8	Calcium (as Ca)		IS ; 3025 (P-40) ; 1991 RA 201	19 39.8	2	mg/l
9	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 20	10.5	1	mg/l
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 20	17 0.5	6	mg/l
11	Phenolic compounds		APHA 23rd Edition, 5530C, 20	17 *BLQ(**LO	G-0.001)	mg/l
12	Dissolved oxygen (DO)		IS : 3025 (P -38) : 1989, RA 20	019 6.3	F	//g//
13	Biochemical Oxygen Der days at 27°C)	mand (BOD) (3	IS 3025 (P-44) : 1993, RA : 20	19 10	0	ng/l
14	Chemical Oxygen Deman	d (COD)	IS : 3025 (P- 58) : 2006 RA 20	017 45.8	6	mg/l
15	Iron (as Fe)		APHA 23rd Edition,3111B, 20	17 *BLQ(**L0	00-0.1)	nog//
16	Zinc (as Zn)	1	APHA 23rd Edition, 3030D,311 2017	3B, *BLQ(**L0	00-0.2)	/ng/l
17	Copper (as Cu)	1. A	APHA 23rd edition, 3111B, 20	2011/10/07/2012	Q-0.02)	mg/l
18	Manganese (as Mn)		APHA 23rd Edition, 3030D,311 2017	38, - "BLQ("'LO	Q-0.05)	rog/l
19	Lead (as Pb)		APHA 23rd Edition, 3030D,311 2017	3B, "BLQ("LO	Q+0.005)	m <u>a</u> /l
20	Arsenic (as As)		APHA 23rd Edition, 3030D,311- 2017	4C. 'BLQ(''LO	2-0.005)	mig/l
21	Boron (as B)		APHA 23rd Edition, 4500D, 20	17 *BLQ(**LQ	Q-5.0)	/ng/l











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			000001305F 5230015/A
Test Parameters	Test Method	Results	Unit
Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/)
Cadmium (as Cd)	APHA 23rd Edition,31138 ,2017	*BLQ(**LOQ-0.002)	mg/l
Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.001)	mg/l
	the unimoginable" le Number : VTL/SW/05 Test Parameters Chromium (as Cr) Cadmium (as Cd) Selenium (as Se)	the unimaginable" ULI Is Number : VTL/SW/05 Reg Test Parameters Test Method Chromium (as Cr) APHA 23rd Edition,3113B,2017 Cadmium (as Cd) APHA 23rd Edition,3113B,2017 Selenium (as Se) APHA 23rd Edition,3114C,2017	unimaginable* ULR No. * TG1122724 le Number : VTL/SW/05 Report No. : VTL/W/240 Test Parameters Test Method Results Chromium (as Cr) APHA 23rd Edition,3113B, 2017 *BLQ(**LOQ-0.02) Cadmium (as Cd) APHA 23rd Edition,3113B, 2017 *BLQ(**LOQ-0.002) Selenium (as Se) APHA 23rd Edition,3114C, 2017 *BLQ(**LOQ-0.005)

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

End of Report













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erience	the unimaginable"							
Sample Number: VTL/SW/05				Report No.		: VTL/VV/2406230015/B		
Name & Address of the Party Sample Description Sampling Location Sample Collected By Preservation		: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh : SURFACE WATER : Bangoli Dam : VTL Team : Refrigerated		Format No	178F-01			
				Party Reference No	1 29/06/2024 23/06/2024-29/06/2024 23/06/2024 16/06/2024 3 Grab 3 2 Ltr			
				Report Date				
				Period of Analysis				
				Receipt Date				
				Sampling Date				
				Sampling Type				
				Sample Quantity				
Metho	d of sampling	: IS 3025		Coordinates	: NA			
S.No.	Test Param	eters	Test Method	Resu	lts	Unit		
1	Colour		15 : 3025 (P-4) : 2021	"BLQ(""LC	Q-5.0)	CU		
2	Odour		IS: 3025 (P-5): 2018	Agreea	ible	-		
3	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017	*BLQ(**LC	Q-5.0)	mgil		
4	Aluminium (as Al)		IS : 3025 : (P-55) 2003, RA 2011	9 "BLQ(""LO	Q-0.03)	/ng/l		
5	Oil & Grease	0.0000	IS 3025 (P-39) 1991, RA 2019	*BLQ(**LC	Q-4.0)	mg/i		
6	Anionic Detergents (MBAS)		APHA 23rd ed., 2017, 5530C	"BLQ("LO	Q 0.02)	mg/i		

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

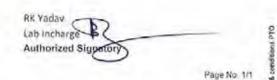
End of Report











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		TEST REPORT			
Experience the unimaginable*			ULR No.	: TC1122724	000001306F
Sample Number : VTL/W/D	f		Report No.	: VTL/W/240	6230016/A
Name & Address of the Party	: M/s ADANI POW	VER LIMITED	Format No	: 7.8 F-01	
Sauce - Annaly Salar and Salar	Village- Raikheda, Block- Tilda Raipur 493225 Party Reference No Chhallisasth		1		
			Report Date	: 29/06/2024	
			Period of Analysis : 23/06/2024-29/06		-29/05/2024
Sample Description	‡ Water Sample		Receipt Date	: 23/06/2024	
Sampling Location	: Ash Recovery Water Pump Area : VTL Team		Sampling Date	: 17/06/2024 - Grab	
Sample Collected By			Sampling Type		
Preservation	: Refrigerated		Sample Quantity	1 2 Ltr	
Method of sampling	: IS 3025		Coordinates	3 NA	
S.No. Test Parar	neters	Test Method	Resul	Its	Units
1 pH (at 25°C)		IS : 3025 (P-11) : 2022	7.23		
2 Total Suspended Solids		IS: 3025 (P-17): 2022	42.1	5	mg/l

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

End of Report













Page No. 1/1

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Oil & Grease

servence the manuflumne.					
Sample Number : VTL/W/01 Name & Address of the Party	: W/s ADANI POWER LIMITED Format No Village- Raikheda, Block- Tilda Raipur 493225 Party Refe Chhattisgarh Report Da Period of / : Water Sample Receipt Da : Ash Recovery Water Pump Area Sampling : VTL Team Sampling		Report No. Format No Party Reference No Report Date	mat No : 7.8 F-01 ty Reference No : port Date : 29/06/2024 iod of Analysis : 23/06/2024-29/06/2024 seipt Date : 23/08/2024 inpling Date : 17/06/2024 inpling Type : Grap	
			Period of Analysis		
Sample Description			Receipt Date		
Sampling Location			Sampling Date		
Sample Collected By			Sampling Type		
Preservation			Sample Quantity		
Method of sampling	: 18 3025		Coordinates	: NA	
S.No. Test Param	eters	Test Method	Resu	lts	Units
1 Biochemical Oxygen Dim at 27*)	and (BOD 3 Days	IS :3025, (P-44),2023	7.23	1	ng/l
2 Chemical Oxygen Demar	nd (COD)	IS :3025, (P-58) 2023	49.5	6	mg/l

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

End of Report

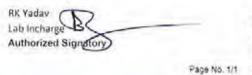
IS :3025(P-39) 2021











*BLQ**(LOQ-4.0)

mg/i

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IBF erience to	RANT			ULR No.	: TC1122724	000001307F
Sample Number : VTL/W/01			R	Report No.	: VTL/W/2406230017/A	
		VER LIMITED	Format No	: 7.8 F-01		
		a, Block- Tilda Raipur 493225	Party Reference No			
	Chhattisgarh			Report Date	: 29/06/2024	
			ı Reservoir	Period of Analysis	: 23/06/2024 29/06/2024 : 23/06/2024 : 17/06/2024 : Grab : 2 Lii	
Sampl	e Description	: Water Sample		Receipt Date		
Sampl	ing Location	: Raw Water Area		Sampling Date		
S	e Collected By	: VTL Team		Sampling Type		
	vation	: Refrigerated		Sample Quantity		
	d of sampling	: 18 3025		Coordinates	: NA	
S.No.	Test Param	eters	Test Method	Resu		Units
-	pH value		IS 3025 (P-11) 2022	7.8		-
_	Turbidity		IS : 3025 (P- 10) : 1984, RA 20			NTU
3	Total Dissolved Solids (TE	OS)	IS : 3025 (P-16) : 1984, RA 20	17 530	0	ntgil
4	Chloride (as Cl)		IS: 3025 (P-32) 1988, RA 201	19 72.6	6	mgil
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec.RA 2	2022 35.7	4	mgh
6	Total Alkalinity (as CaCO	3)	15: 3025 (P- 23) : 1986, RA 20	19 195.	0	mg/l
7	Total Hardness (CaCO3)		IS: 3025 (P-21) : 2009, RA 20	19 230	0	mg/l
8	Calcium (as Ca)		IS: 3025 (P-40): 1991 RA 201	19 72.5	72.58	
9	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 20	11.9	0	mg/l
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 20	17 0.5	0.56	
11	Phenolic compounds		APHA 23rd Edition, 5530C, 20	17 *BLQ(**LO	Q-0.001)	ing/l
12	Dissolved oxygen (DO)		IS: 3025 (P -38) : 1989, RA 20	019 5.8	5.8	
	Biochemical Oxygen Demand (BOD) (3 -		IS: 3025 (P-44) : 1993, RA : 20	19 10.1	5	mgi)
14	Chemical Oxygen Deman	d (COD)	IS : 3025 (P- 58) : 2006 RA 20	017 42.6	42.65	
15	Iron (as Fe)		APHA 23rd Edition,3111B, 20	17 *BLQ(**LC	Q-0.1)	mg/l
16	Zinc (as Zn)		APHA 23rd Edition, 3030D,311 2017	3B, 0.6	3	mg/l
17	Copper (as Cu)		APHA 23rd edition, 3111B, 20	17 "BLQ(""LO	Q(**LOQ-0.02)	
18	Manganese (as Mn)		APHA 23rd Edition, 3030D,311 2017	3B, "BLO("'LO	*BLO(**LOO-0 05)	
19	Lead (as Pb)		APHA 23rd Edition, 3030D,311 2017	3B, *BLQ(**LO	*BLQ(**LOQ-0.005)	
20	Arsenic (as As)		APHA 23rd Edition, 3030D,311- 2017	4C, *BLQ(**LOO	2-0:005)	mg/l
21	Boron (as B)	- 1011 1011	APHA 23rd Edition, 4500D, 20	17 'BLQ(**LC	Q-5.0]	1119/1



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serience the unimaginable" Sample Number : VTL/W/01				: TC1122724000001307F : VTL/W/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/i	
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l	
-		-			

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

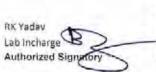
End of Report













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Sampl	Sample Number : VTL/W/01			Report No.	: VTL/W/2408	1230017/B
Name	& Address of the Party	: M/s ADANI POV	VER LIMITED	Format No	: 7.8 F-01	
			a, Block- Tilda Raipur 493225	Party Reference No	3.	
		Chhattisgarh		Report Date	: 29/05/2024	
				Period of Analysis	: 23/05/2024-	29/06/2024
Samp	le Description	: Water Sample : Raw Water Area Reservoir		Receipt Date	; 23/06/2024	
Samp	ling Location			Sampling Date	: 17/05/2024	
Sample Collected By Preservation		± VTL Team		Sampling Type	: Grau	
		: Refrigerated		Sample Quantity	: 2 Ltr	
Metho	d of sampling	: 15 3025		Coordinates	: NA	
S.No.	Test Param	eters	Test Method	Resul	ts	Units
1	Colour		15 : 3025 (P-4) : 2021	"BLQ(""LO	Q-5.0)	cu
2	Odour		IS: 3025 (P-5): 2018	Agreea	ble	+
3	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017	*BLQ(**LO	Q-5.0)	mg/i
4	Aluminium (as Al)		IS: 3025 : (P-55) 2003, RA 2019	"BLQ("LO	Q-0.03)	mg/l
5	Oil & Grease		IS : 3025 (P-39) 1991, RA 2019	"BLQ(""LO	Q-4.0)	mg/l
ô	Anionic Detergents (MBAS)		APHA 23rd ed., 2017, 5530C	"BLO(""LO	"BLQ(""LOQ 0.02)	

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

End of Report











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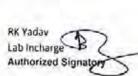


~						10-112
Sample Description Sample Description Sample Collected By Preservation Method of sampling S.No. Test Parameters		: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur - Chhattisgarh : Water Sample ! Piezometer Well No01 (Near Raw Wa ! VTL Team : Refrigerated : IS 3025	493225 F F Nor Pump S S	JLR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sampling Type	: 29/06/2024 : 23/06/2024-24 : 23/06/2024 : 17/06/2024 : 17/06/2024 : Grab : 2 Ltr	00001291F 30001/A
-	and the second se		Results	Coordinates	: NA IS:105	00-2012
					Acceptable Limit	Permissible
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 CaCC	3) 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 CaCO)	3) 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	lton (as Fe)	APHA 23rd Edition . 3111B,2017	0.23	mg/i	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	1.02) mg/i	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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samp	KANI	ULR No Report		: TC1122724000001291F : VTL/W/2406230001/A		
S.No.		Test Method	Results	Units	IS:10500-2012	
				1.4	Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/i	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 mi 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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SSIMP.	Number : VTL/W/01			Report	No	· VTI 00/24052	30001/0
Name	& Address of the Party	: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raim	M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225		No	: VTL/W/2405230001/B : 7.8 F-01	
Preservation Method of sampling		Chhattisgarh Water Sample Piezometer Well No01 (Near Raw Water Pump VTL Team Refrigerated IS 3025		Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates		: : 29/06/2024 : 23/06/2024-29/06/2024 : 23/06/2024 : 17/06/2024 : Grab : 2 Ltr : NA	
S.No.	Test Parameters	s Test Method	Resu	ults	Units	IS:10500-2012	
						Acceptable Limit	Permissible Limit
1	Colour	IS: 3025:(P-4)1983, RA 2017	"BLQ(""LO	DQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) RA 2018	Agree	able		Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agree	able		Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D.2017	*BLQ(**LC	DQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	"BLQ(""LO	Q-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as M	BAS) APHA 23rd Edition , 5540C 2017	"BLQ(""LO	Q-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LO	Q-0.02)	mg/l	0.7	No relaxation

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

End of Report







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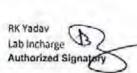


and the second second	RANT		U	LR No:	TC112272400	00001292F	
	le Number : VTL/W/02		R	eport No.	: VTL/W/24062	30002/A	
Name	& Address of the Party	A A A A A A A A A A A A A A A A A A A		Format No		7 8 F-01	
		Village- Raikheda, Block- Tilda Raipur - Chhattisgarh	493225 P	93225 Party Reference No			
		Childhisgan	Report Date		: 29/06/2024		
	C.A.C. DESIGN		P	eriod of Analysis	: 23/08/2024-29	0/06/2024	
	le Description	Water Sample		eceipt Date	: 23/06/2024		
	A loss of a loss of the loss of the	: Piezometer Well No02 (Near Mura Ga		ampling Date	: 17/06/2024		
		: VTL Team		ampling Type	: Grab		
		: Reingerated		ample Quantity	: 2 Ltr		
-	The second s	: 15 3025	C	oordinates	: NA		
S.No	Test Parameters	Test Method	Results	Units	IS:105	00-2012	
					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 CaCO)	3) 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	17.85	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/i	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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Sampl	KANI the unimaginable" Number : VTL/W/02		ULR No Report		<pre>‡ TC1122724000001292F ; VTL/W/2406230002/A</pre>		
S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012		
					Acceptable Limit	Permissible Limit	
18	Selenium (aș 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 mi 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	in the second		

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

End of Report











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	che uningapinable" C Number : VTL/W/02				Report	No	: VTL/W/24062	30002/8
	& Address of the Party		ADANI POWER LIMITED		Format No Party Reference No		· 7.8 F-01	
			ge- Raikheda, Block- Tilda Raipur	93225			: //07-01	
		Chha	attisgarh		Report I	100 March 10 127	: 29/06/2024	
						of Analysis	: 23/06/2024-29	06/2024
Sampl	e Description	: Wate	er Sample		Receipt	1997 C 19 C 19 C	: 23/06/2024	
Sampl	ing Location	: Piez	ezometer Well No02 (Near Mura Gate)		Samplin	g Date	; 17/05/2024	
Sampl	e Collected By	; VTL	TL Team			g Type	: Grab	
		: Refri	efrigerated		Sample Quantity		\$2.LU	
		: IS 30	: IS 3025			ates	: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(**L	OQ-5.0)	Hazen	5	15
2	Odour		IS : 3025 (P-5) : RA 2018	Agree	able		Agreeable	Agreeable
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agree	able	-	Agreeable	Agreeable
4	Cyanide (as CN)		APHA 23rd Edition .4500D,2017	*BLQ(**L	OQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil		IS 3025 (P-39) 1989	BLQ("LC	DQ-0.05)	mg/l	0.5	No Relaxation
5	Anionic Detergents (as M	BAS)	APHA 23rd Edition , 5540C 2017	"BLQ(""LC	Q-0.05)	mg/l	0.2	1.0
7	Barium as Ba		APHA 23rd Edition,3111B 2017	*BLQ(**LC	DQ-0.02)	mg/l	0.7	No relaxation

*BLO-Below Limit Of Quantification, **LOO- Limit of Quantification

End of Report







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Name	RANT When the party & Address of the Party He Description	istinable" VTL/W/03 ess of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh		LR No. eport No. ormat No arty Reference No eport Date priod of Analysis	: TC1122724000001293F : VTL/W/2405230003/A : 7.8 F-01 : : 29/06/2024 : 23/06/2024-29/06/2024		
	ling Location	: Water Sample : Piezometer Well No03 (Near Ash Rec		eceipt Date	: 23/06/2024		
	c Collected By	: VTL Team	the state of the s	ampling Date ampling Type	: 17/06/2024		
Sec	rvation	Refrigerated		ample Quantity	: Grab : 2 Ltr		
Metho	d of sampling	: IS 3025	0	oordinates	:NA		
S.No.	Test Parameters	; Test Method	Results	Units		00-2012	
					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 CaCO	3) IS: 3025 (P-21): 2009, RA 2019	232.0	mg/I	200	600	
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	76.23	mg/l	75	200	
5	Total Alkalinity (as CaCO:	3) 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): 1994, RA 2019	10,15	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/i	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	
17	Manganese (as Mn)	APHA 23rd Edition, 3030D,	*BLQ(**LOQ-0.	05) mg/l	0.1		







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	RANT		ULR No Report	2	: TC1122724000001293F : VTL/W/2405230003/A		
S.No.	Test Parameters	Test Method	Results	Units	IS:105	00-2012	
					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 : 15186 : 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	•		

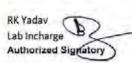
*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report











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Sampi	Choking able VTLW/03				Report	No.	: VTL/W/24062	30003/R	
Name	& Address of the Party	: M/s	ADANI POWER LIMITED		Format		· 7.8 F-01		
		Villa	ge- Raikheda, Block- Tilda Raipur	493225	Party Reference No				
		Chha	attisgarh		Report		: 29/06/2024		
						f Analysis	: 23/06/2024-29	/06/2024	
Sampl	e Description	: Wat	er Sample		Receipt	and the second sec	: 23/06/2024		
Sampl	ing Location	: Piez	ezometer Well No03 (Near Ash Recovery Water)		Samplin	g Date	: 17/06/2024		
Sampl	e Collected By	: VTL	VTI. Team			g Type	: Grab		
Preser	Preservation		Refrigerated IS 3025		Sample Quantity Coordinates		: 2 Ltr : NA		
Method of sampling		: 15 30							
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(""LO	Q-5.0)	Hazen	5	15	
2	Odour		IS : 3025 (P-5) : RA 2018	Agreea	ble	-	Agreeable	Agreeable	
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agrees	ble	-	Agreeable	Agreeable	
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**LO	Q-5.0)	mg/l	0.05	No Relaxation	
5	Mineral Oil		IS 3025 (P-39) 1989	"BLQ(""LO	0-0.05)	mg/l	0.5	No Relaxation	
6	Anionic Detergents (as N	IBAS)	APHA 23rd Edition , 5540C 2017	"BLQ(""LO	Q-0.05)	mg/l	0.2	1.0	
7	Barium as Ba		APHA 23rd Edition,3111B 2017	*BLQ(**LO	Q-0.02)	mg/l	0.7	No relaxation	

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

End of Report







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Page No. 1/1

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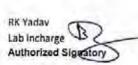


~							TC-112
Samp	RANT			ULR No Report I		: TC112272400 : VTLW/24052	
Name	& Address of the Party	ress of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh		93225 Format No 93225 Party Reference No Report Date		; 7.8 F-01 : : 29/06/2024	
		: Water Sample : Piezometer Well No04 (Near Wagon Tippler Area : VTL Team : Refrigerated : IS 3025		Period of Analysis Receipt Date		: 23/06/2024-29/06/2024 : 23/06/2024 : 17/06/2024 - Grab : 2 Ltr : NA.	
S.No.	Test Parameters	Test Method	Resul	ts	Units	IS:105	00-2012 Permissible
						Limit	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(""LO	Q-1.0)	NTU	1	5
3	Total Hardness (as CaCC	03) 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	3	mg/l	75	200
5	Total Alkalinity (as CaCO	3) IS. 3025 (P-23), 1986, RA 2019	245.0	0	mg/i	200	800
6	Chloride (as CI)	IS: 3025 (P-32): 1988, RA 2019	75.62	2	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	1	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	36.25		/ng/t	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.67	1	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("LOC	(-0.03)	mg/l	0,03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B.2017	*BLQ(**LO	Q-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
18	Copper (as Co)	APHA 23rd Edition 3111B 2017	*BLQ(**LOC	2-0.02)	ന്നള്ഗ്	0.05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	'BLQ("LOC	2-0.05)	mg/l	0.1	0.3











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	RANT		ULR No Report		: TC1122724000001294F : VTL/W/2406230004/A		
S.No.	Test Parameters	Test Method	Results	Units	IS:105	00-2012	
					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	JS : 15185 : 2016	Absent	per 100 mi	Shall not be detectable in any 100 mi 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/i	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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Sampl	e Number : VTL/W/04				Report I	No.	: VTL/W/24062	30004/B
Name	& Address of the Party	: M/s /	: M/s ADANI POWER LIMITED		Format No		- 7.8 F-01	
		Villa	ge- Raikheda, Block- Tilda Raipur 4	493225	Party Reference No			
		Chh:	attisgarh		Report I	Construction and	: 29/06/2024	
						of Analysis	: 23/06/2024-29	0/06/2024
Sampl	e Description	: Water Sample			Receipt	Date	: 23/06/2024	11.00
Sampl	ing Location	: Piez	ometer Well No -04 (Near Wagon 1	Tippler Area	Samplin	g Date	: 17/06/2024	
Sampl	e Collected By	: VTL	: VTL Team			ig Type	: Grab	
Preservation Method of sampling		: Refri	Refrigerated			Quantity	: 2 Ltr	
		: 15 3025		Coordinates		: NA		
S.No.	Test Parameters		Test Method	Resu	Results Units		IS:10500-2012	
							Acceptable Limit	Permissible Limit
1	Colour		IS: 3025:(P-4)1983, RA 2017	"BLQ("LC	Q-5.0)	Hazen	5	15
2	Odour		IS : 3025 (P-5) : RA 2018	Agrees	able	(Agreeable	Agreeable
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agrees	able	-	Agreeable	Agreeable
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**LC	DQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil		IS 3025 (P-39) 1989	"BLQ(""LO	Q-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as M	BAS)	APHA 23rd Edition , 5540C 2017	"BLQ(""LO	Q-0.05)	mg/l	0.2	1.0
7	Barium as Ba		APHA 23rd Edition.3111B 2017	"BLQ(""LO	Q-0.02)	mg/i	0.7	No relaxation

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

End of Report









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						10-112
e Description ing Location e Collected By vation	: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tildo Roipur 493225 Chhattisgarh : Water Sample : Piezometer Well No05 (Near Old Project Doosan) : VTL Team : Refrigerated		ULR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates		<pre>: TC1122724000001295F : VTL/W/2406230005/A : 7.8 F-01 : : 29/06/2024 : 23/06/2024 : 23/06/2024 : 23/06/2024 : 17/06/2024 : Grab : 2 Ltr : NA</pre>	
Test Parameters	Test Method	Resul	ts	Units	IS:105	00-2012 Permissible
			_		Limit	Limit
		1- N. S.		-	6.5 to 8.5	No Relaxation
- Contraction		*BLQ(**LO	Q-1.0)	NTU	1	5
Total Hardness (as CaCC	(3) IS: 3025 (P-21): 2009, RA 2019	196.0)	mg/l	200	600
Calcium (as Ca)	IS: 3025 (P-40): 1991 RA 2019	61.85	5	mg/l	75	200
Total Alkalinity (as CaCO)	3) IS: 3025 (P-23): 1986, RA 2019	152.0)	mg/l	200	600
Chloride (as CI)	IS. 3025 (P-32). 1988, RA 2019	54.28	5	mg/l	250	1000
Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	10.13		mg/l	30	100
Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	405.0)	mg/l	500	2000
Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	19.56	1	mg/l	200	400
Fluoride (as F)	APHA 23rd Edition ,4500FD 2017	0.41		mg/l	1.0	1.5
Nitrate (as NO3)	IS: 3025 (P-34): 1988	12.45		mg/l	45.0	No Relaxation
Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.58		mg/l	1,0	No Relaxation
Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOC	0-0.03)	mg/l	0.03	02
Boron (as B)	APHA 23rd Edition, 4500B,2017	"BLQ("LO	Q-0.2)	mg/l	0.5	1.0
Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.37		mg/l	5.0	15.0
Copper (as Cu)	APHA 23rd Edition 3111B 2017	"BLQ(""LOC	2-0.02)	mg/T	0.05	1.5
Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOC	0-0.05)	mg/l	0.1	0.3
	pH (at 25°C) Turbidity Total Hardness (as CaCO Calcium (as Ca) Total Alkalinity (as CaCO Chloride (as Cl) Magnesium (as Mg) Total Dissolved Solids Sulphate (as SO4) Fluoride (as F) Nitrate (as NO3) Iron (as Fe) Aluminium (as Al) Boron (as B) Zinc (as Zn) Copper (as Cu)	Image: Section Sectin Section Section Sectin Section Section Section Section Section Se	#Ministripuble YTLAWIOS & Address of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh e Description : Water Sample ing Location : Piezomater Well No05 (Near Old Project Doosan) e Collected By e Collected By : VTL Team vation : Refrigerated d of sampling : S 3025 Test Parameters Test Method Result pH (at 25°C) IS : 3025 (P-11) : 2022 7.45 Turbidily IS : 3025 (P-11) : 2022 7.45 Turbidily IS : 3025 (P-21) : 2009, RA 2019 196.0 Calcium (as Ca) IS : 3025 (P-21) : 2009, RA 2019 161.83 Total Akalinity (as CaCO3) IS : 3025 (P-40): 1991 RA 2019 61.84 Total Akalinity (as CaCO3) IS : 3025 (P-32): 1988, RA 2019 152.0 Chloride (as Cl) IS : 3025 (P-32): 1988, RA 2019 10.13 Total Dissolved Solids IS : 3025 (P-34): 1988, RA 2019 10.13 Total Dissolved Solids IS : 3025 (P-34): 1988, RA 2019 0.41 :2017 APHA 23rd Edition, 4500FD 0.41 :2017 Sulphate (as RO3) IS : 3025 (P-55): 2003, RA 2019 *BLQ(**LOC Boron (as B) APHA 23rd Edition, 303	Whitmibility SM/S ADANI POWER LIMITED Report I & Address of the Party : M/S ADANI POWER LIMITED Pormati Village- Raikheda, Block-Tilda Raipur 493225 Report I Deriod C Chihattisgarh Report I e Description : Water Sample Receipt ing Location : Piezomater Well No05 (Near Old Project Doosan) Samplin e Collected By : VTL Team Samplin vation : Retrigerated Samplin e d of sampling : IS 3025 Coordin pH (at 25°C) IS : 3025 (P-11) : 2022 7.45 Turbidily IS : 3025 (P-11) : 2022 7.45 Turbidily IS : 3025 (P-21): 2009, RA 2019 196.0 Calcium (as Ca) IS : 3025 (P-23): 1986, RA 2019 161.85 Total Alkalinity (as CaCO3) IS : 3025 (P-32): 1988, RA 2019 162.0 Chioride (as Ci) IS : 3025 (P-46): 1994, RA 2019 10.13 Total Alkalinity (as SA) IS : 3025 (P-46): 1984, RA 2019 10.13 Total Dissolved Solids IS : 3025 (P-46): 1984, RA 2017 405.0 Sulphate (as NO3) IS : 3025 (P-46): 1984, RA 2017 405.0	WBMMBBRINK VTLWIDS Report No. & Address of the Party : Mis ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh Format No Party Reference No Report Date Period of Analysis e Description : Water Sample Recoipt Date ing Location : Piezometer Well No05 (Near Old Project Doozan) Sampling Date e Collected By : VTL Team Sampling Type vation : Retrigerated Sampling Type of sampling : IS 3025 Coordinates Test Parameters Test Method Results Units pH (at 25°C) IS : 3025 (P-11) : 2022 7.45 Turbidity IS : 3025 (P-21) : 2009, RA 2019 196.0 mg/l Calcium (as Ca) IS : 3025 (P-21) : 2009, RA 2019 196.0 mg/l Calcium (as Ca) IS : 3025 (P-23): 1986, RA 2019 195.0 mg/l Total Alkalinity (as CaCO3) IS : 3025 (P-24): 1984, RA 2017 405.0 mg/l Sulphate (as SO4) IS : 3025 (P-34): 1986, RA 2019 10.13 mg/l Sulphate (as NO3) IS : 3025 (P-34): 1986, RA 2022 19.56 mg/l Itorial Dissolved Solids IS : 3025 (P-34): 1988, RA 20	Minimizer Mis ADANI POWER LIMITED Village- Rakheda, Blick- Tilda Rajpur 493225 Report No. : VTUW/24082 & Address of the Pary Village- Rakheda, Blick- Tilda Rajpur 493225 Format No : 7.8 F-01 Village- Rakheda, Blick- Tilda Rajpur 493225 Period of Analysis : 20/06/2024 e Description :: Water Sample Receipt Date : 23/06/2024 ing Location : Prezometer Well No -05 (Near Old Project Doosan) Sampling Type : Crarb vation : Refrigerated : Sample : Coordinates : NA Test Parameters Test Method Results Units IS: 105/ pH (at 25°C) : IS : 3025 (P-11) : 2022 7.45 - 8.5 to 8.5 Turbidity : IS : 3025 (P-21) : 2009, RA 2019 196.0 mg/l 200 Calcium (as Ca) : IS : 3025 (P-21) : 2009, RA 2019 195.0 mg/l 200 Calcium (as CA) : IS : 3025 (P-21) : 1988, RA 2019 10.13 mg/l 30 Total Akalinity (as CaCO3) : IS : 3025 (P-31) : 1988, RA 2019 10.13 mg/l







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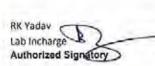
	the unimaginable" e Number : VTL/W/05		ULR No Report		: TC1122724000001295F : VTL/W/2406230005/A		
S.No.	Test Parameters	Test Parameters Test Method		Units	IS:10500-2012		
					Acceptable Limit	Permissible Limit	
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation	
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 mi 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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Samp	e Number : VTL/W/05				Report I	No	: VTL/W/24062	30005/B	
-	& Address of the Party	: M/s /	ADANI POWER LIMITED		Format		: 7.8 F-01		
			ge- Raikheda, Block- Tilda Raipur 4 attisgarh	193225	225 Party Reference No		1		
		Ginne	amagatti		Report I	Date	: 29/06/2024		
					Period o	of Analysis	: 23/06/2024-29	/06/2024	
	e Description	: Wate	Vater Sample			Date	: 23/06/2024		
Sampl	ing Location	: Piezo	ometer Well No05 (Near Old Proje	sct Doosan)	Samplin	-	: 17/06/2024		
Sampl			VTL Team Refrigerated IS 3025		Samplin	and the second se	: Grab		
Preservation Method of sampling		: Refri			Sample Quantity Coordinates		: 2 Lir : NA		
		: 15 30							
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(**LC	Q-5.0)	Hazen	5	15	
2	Odour		IS : 3025 (P-5) : RA 2018	Agrees	ble		Agreeable	Agreeable	
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agreea	able		Agreeable	Agreeable	
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	"BLQ(""LC	00-5.0)	mg/l	0.05	No Relaxation	
5	Mineral Oil		IS 3025 (P-39) 1989	*BLQ(**LO	Q-0.05)	mg/l	0.5	No Relaxation	
6	Anionic Detergents (as M	(BAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LO	Q-0.05)	mg/l	0.2	1.0	
7	Barium as Ba		APHA 23rd Edition,3111B 2017	"BLQ(""LO	Q-0.02)	mg/l	0.7	No relaxation	

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

End of Report







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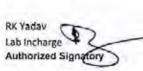


~						10-112
Samp	RANT	: M/s ADANI POWER LIMITED	,	JLR No. Report No.	* TG112272400 : VTL/W/24062	
		Village- Raikheda, Block- Tilda Raipur Chhattisgarh	493225 F F	ormat No Party Reference No Report Date Period of Analysis	: 29/06/2024 : 23/06/2024-29	9/05/2024
Sample Description Sampling Location Sample Collected By Preservation Method of sampling		: Water Sample : Plezometer Well No -06 (Near OWC Ar : VTL Team : Refrigerated : IS 3025	rea (Brick S S S	Receipt Date Sampling Datu Sampling Type Sample Quantity Coordinates	: 23/05/2024 : 17/05/2024 : Grab : 2 Ltr : NA	
S.No.	Test Parameters	s Test Method	Results	Units	Acceptable	00-2012 Permissible
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.46	-	Limit 8.5 to 8.5	Limit No Relaxation
2	Turbidity	IS : 3025 (P-10)1984, RA 2017	*BLQ(**LOQ		0.010 8.5	NO Relaxation
3	Total Hardness (as CaCO	Construction and the second states of	251.0		200	500
4	Calcium (as Ca)	IS: 3025 (P-40): 1991 RA 2019	66 32	mg/l	75	200
-			150.10	mg/l	200	600
5	Total Alkalinity (as CaCO	3) IS: 3025 (P-23): 1986, RA 2019 IS: 3025 (P-32): 1988, RA 2019	38.47	mg/l	250	1000
7	Chloride (as Cl)	IS: 3025 (P-46): 1994, RA 2019	20.78	mg/l	30	1000
8	Magnesium (as Mg) Total Dissolved Solids	IS :3025 (P-16): 1994, RA 2019	425.0	mg/l	500	2000
9	Sulphate (as SO4)	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 NO3)	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-	l/gm (60.0	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	ng/i	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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	RANT Une unimaginable" Number : VTL/W/06	ULR No Report		: TC1122724000001296F : VTL/W/2406230006/A			
S.No.	Test Parameters	t Parameters Test Method		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: VTL/W/05				Report M	lo.	: VTL/W/24062	30005/B	
Name	& Address of the Party	: M/s	ADANI POWER LIMITED		93225 Format No Party Reference No Report Date		: 7.8 F-01		
		Villa	ge- Raikheda, Block- Tilda Raipur 4	93225					
		Chha	attisgarh				: 29/06/2024		
					Period o	Analysis	: 23/06/2024-29	/06/2024	
Sample	e Description	: Wate	Water Sample			Date	: 23/06/2024		
Sampl	ing Location	: Piez	ometer Well No08 (Near OWC Ar	ea (Brick	Samplin	g Date	: 17/06/2024		
Sample			Team		Samplin		: Grab		
Preservation Method of sampling		: Refri	Refrigerated		Sample	Quantity	: 2 Ltr		
		: IS 3025		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(**L	OQ-5.0)	Hazen	5	15	
2	Odour		IS : 3025 (P-5) : RA 2018	Agree	able	. e. 1	Agreeable	Agraeable	
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agree	able		Agreeable	Agreeable	
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**L	OQ-5,0)	mg/l	0.05	No Relaxation	
5	Mineral Oil		IS 3025 (P-39) 1989	*BLQ(**L	OQ-0.05)	mg/l	0.5	No Relaxation	
6	Anionic Detergents (as N	(BAS)	APHA 23rd Edition , 5540C 2017	.Bro(r	00-0.05)	mg/l	0.2	1.0	
7	Banum as Ba		APHA 23rd Edition.3111B 2017	*BLQ(**L	00-0.02)	mg/l	0.7	No relaxation	

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

End of Report

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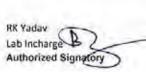


					TC.1123
BRANT Mple Number : VTL/W/07 me & Address of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh mple Description : Water Sample mpling Location : : Village - Mura Hand Pump Water : VTL Team servation :		F 493225 F F F F S S	ULR No. Report No. Format No 225 Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity		30007/A
d of sampling	: IS 3025		Coordinates	: NA	
Tost Parameters	Test Method	Results	Units	IS:105 Acceptable Limit	00-2012 Permissible Limit
pH (at 25°C)	IS : 3025 (P-11) : 2022	7.03		6.5 to 8.5	No Relaxation
Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ	1.0) NTU	- t	5
Total Hardness (as CaCC	03) IS: 3025 (P-21): 2009, RA 2019	415.0	mg/l	200	600
Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	131.01	mg/l	75	200
Total Alkalinity (as CaCO	3) IS: 3025 (P-23): 1986, RA 2019	356.0	mg/l	200	600
Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	102.45	mg/l	250	1000
Magnesium (as Mg)	IS: 3025 (P-45): 1994, RA 2019	21.42	mgЛ	30	100
Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	790.0	mg/l	500	2000
Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	79.63	ng/l	200	400
Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.13	mg/l	1.0	1.5
Nitrate (as NO3)	IS: 3025 (P-34): 1988	26.45	mg/l	45.0	No Relaxation
Iron (es Fe)	APHA 23rd Edition . 3111B,2017	0.29	mg/l	1.0	No Relaxation
Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	"BLQ(""LOQ-0	0.03) mg/l	0.03	0.2
Boron (as B)	APHA 23rd Edition, 4500B,2017	"BLQ(""LOQ-	0.2) mg/l	0.5	1.0
Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.41	mg/)	5.0	15.0
Copper (as Cu)	APHA 23rd Edition 3111B 2017	"BLQ(""LOQ-	0.02) mg/i	0.05	1.5
Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	"BLQ("LOQ-	0.05) mg/l	0.1	0.3
	Address of the Party Address of the Party Address of the Party le Description ling Location le Collected By rvation d of sampling Tost Parameters pH (at 25°C) Turbidity Total Hardness (as CaCO Calcium (as Ca) Total Alkalinity (as CaCO Chioride (as Ci) Magnesium (as Mg) Total Dissolved Solids Sulphate (as SO4) Fluoride (as F) Nitrate (as NO3) Iron (as E) Zinc (as Zn) Copper (as Cu)	Address of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur- Chhattisgarin Village- Raikheda, Block- Tilda Raipur- Chhattisgarin Image: Participation : Water Sample Image: Raikheda, Block- Tilda Raipur- Chhattisgarin State Raikheda, Block- Tilda Raipur- Chhattisgarin Image: Raikheda, Block- Tilda Raipur- Chhattisgarin : Water Sample Image: Raikheda, Block- Tilda Raipur- Chattisgarin : State Raimur PH (at 25°C) : IS: 3025 (P-11) : 2022 Turbidity : IS: 3025 (P-11) : 2022 Turbidity : IS: 3025 (P-21): 2009, RA 2019 Calcium (as Ca) : IS: 3025 (P-21): 2009, RA 2019 Chloride (as Cl) : IS: 3025 (P-23): 1986, RA 2019 Chloride (as Cl) : IS: 3025 (P-23): 1986, RA 2019 Magnesium (as Mg) : IS: 3025 (P-24): 1984, RA 2017 Sulphate (as SO4) : IS: 3025 (P-34): 1988 Iron (es Fe) APHA 23rd Edition, 4500FD : 2017	Address of the Party : M/s ADANI POWER LIMITED F B Address of the Party : M/s ADANI POWER LIMITED F Village- Raikheda, Block- Tilda Raipur 493225 F Chhattisgarh F Ie Description : Water Sample F Iing Location : Village - Mura Hand Pump Water S Ie Collected By : VTL Team S vortion : Retrigerated S d of sampting : IS 3025 G Tost Parameters Test Method Results pH (at 25°C) IS : 3025 (P-11) : 2022 7.03 Turbidity IS : 3025 (P-21) : 2009, RA 2019 415.0 Calcium (as Ca) IS: 3025 (P-23) : 1988, RA 2019 131.01 Total Hardness (as CaCO3) IS: 3025 (P-32) : 1988, RA 2019 102.45 Magnesum (as Mg) IS: 3025 (P-32) : 1988, RA 2019 21.42 Total Dissolved Solids IS : 3025 (P-31) : 1988, RA 2019 21.42 Total Dissolved Solids IS : 3025 (P-34) : 1988, RA 2017 790.0 Sulphate (as SO4) IS : 3025 (P-34) : 1988, RA 2019 21.42 Total Dissolved Solids IS : 3025 (P-34) : 1988, RA 2019	Address of the Party : M/s ADANI POWER LIMITED Report No. Village-Raikheda, Biock-Tilda Raipur 493225 Format No Chhattisgarn Period of Analysis Ie Description : Water Sample Report Date Bing Location : Village - Mura Hand Pump Water Sampling Date Ie Oelected By : VTL Team Sampling Type rvation : Refrigerated Sampling Type Tost Parameters Test Method Results Units pH (at 25°C) IS : 3025 (P-11) : 2022 7.03 - Turbidity IS : 3025 (P-11) : 2022 7.03 - Turbidity IS : 3025 (P-11) : 2022 7.03 - Turbidity IS : 3025 (P-21) : 2009, RA 2019 415.0 mg/l Calcium (as Ca) IS : 3025 (P-21) : 2009, RA 2019 415.0 mg/l Calcium (as Ca) IS : 3025 (P-21) : 1984, RA 2019 131.01 mg/l Total Alkalinity (as CaCO3) IS : 3025 (P-21) : 1986, RA 2019 102.45 mg/l Magnesum (as Mg) IS : 3025 (P-21) : 1984, RA 2019 102.45 mg/l Magnesum (as Mg) IS : 3025 (P-21) : 1984, RA 2019 1.42	With the periods VTLWI07 & Address of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chalitisgarh Report No. : VTLW//24052 Party Reference No. : 23/06/2024 Period of Analysis : 23/06/2024 Ite Description : Water Sample Report Date : 23/06/2024 ing Location : Village - Mura Hand Pump Water Sampling Date : 17/06/2024 is Collected By : VTL Tearn Sampling Type : Grab vation : Retrigerated Sample : 17/06/2024 id of sampling : IS 3025 Coordinates : NA Tost Parameters Test Method Results Units IS:105 Turbidity IS : 3025 (P-21) : 2002 7.03 - 6.5 to 8.5 Turbidity IS : 3025 (P-21) : 2009, RA 2019 131.01 mg/l 200 Calcium (as Ca) IS : 3025 (P-32) : 1986, RA 2019 102.45 mg/l 200 Calcium (as C0) IS : 3025 (P-32) : 1986, RA 2019 102.45 mg/l 200 Calcium (as C4) IS : 3025 (P-32) : 1986, RA 2019<











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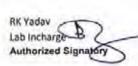


S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0,05
20	Total Coliform	IS : 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/I	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		











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Sample Number : V1L/W/07 Name & Address of the Party Sample Description Sampling Location Sample Collected By Preservation Method of sampling		e Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh : Water Sample : Village - Mura Hand Pump Water : VTL Team : Refrigerated		193225	Report No. Format No 225 Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates		t VTL/W/2406230007/B t 7.8 F-01 29/06/2024 23/06/2024-29/06/2024 23/06/2024 17/05/2024 Grab 2 Ltr t NA	
S.No.			and a second		Coordin	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	Odaur	-	IS : 3025 (P-5) : RA 2018	Agro	eable	-	Agreeable	Agreeable
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agre	eable		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 M	(BAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**	LOQ-0.05)	mg/I	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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IB	RANT		i.	R No.	: TC112272400	10-112		
Sampl	the unimaginable" e Number : VTL/W/08			eport No.	1	a car o a car		
Name	& Address of the Party	V : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225		Format No		: VTL/W/2406230008/A : 7.8 F-01		
Sample Description Sampling Location Sample Collected By Preservation Method of sampling		Chhattisgarh : Water Sample : Village - Chicholi Tap Water : VTL Team : Refrigerated : IS 3025	Pe Re Sa Sa			0/06/2024		
S.No.	Test Parameters	Test Method	Results	Units	IS:105	00-2012		
					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 CaCC	03) IS: 3025 (P-21): 2009, RA 2019	275.0	тgЛ	200	600		
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	79.26	mg/i	75	200		
5	Total Alkalinity (as CaCO	3) 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 SO4)	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 NO3)	IS: 3025 (P-34): 1988	24.23	mg/l	45.0	No Relaxation		
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.29	/ng/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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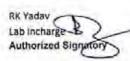


	RANT the unimaginable" e Number : VTL/W/08		ULR No Report I		: TC1122724000001298F : VTL/W/2406230008/A		
S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012		
					Acceptable Limit	Permissible Limit	
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	/ng/l	0.01	No Relaxation	
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 mi 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 mi			











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Sample	e Number : VTL/W/08				Report I	No.	: VTL/W/24062	30008/B
Name & Address of the Party		: M/s ADANI POWER LIMITED		Format No		- 7.8 F-01		
			Village- Raikheda, Block- Tilda Raipur 493225		Party Re	ference No	:	
		Chha	attisgarh		Report I	Date	: 29/06/2024	
					Period o	of Analysis	: 23/06/2024-29	/06/2024
Sampl	e Description	: Wate	er Sample		Receipt	Date	: 23/06/2024	
Sampl	ing Location	: Villag	ge - Chicholi Tap Waler		Samplin	g Date	: 16/06/2024	
Sampl	e Collected By	: VTL Team			Samplin	g Type	: Grab	
Preser	vation	: Refri	gerated		Sample	Quantity	÷ 2 Ltr	
Metho	d of sampling	: IS 30	125		Coordin	ates	: NA	
S.No. Test Parameters	9	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	Agre	seable		Agreeable	Agreeable
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agre	eable	-	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 M	IBAS)	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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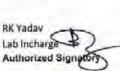
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~						TC-1122
Bample	RANT the unimoginable* Number : VTL/W/09			.R No.	: TC112272400 : VTL/W/24052:	
Name I	& Address of the Party			ormat No arty Reference No	: 7.8 F-01	
		Chhattisgarh		port Date	: 29/06/2024	
			Pe	riod of Analysis	: 23/06/2024-29	/06/2024
sample	Description	Water Sample	R	ceipt Date	: 23/06/2024	
		: Village - Raikheds Tap Water		ampling Date	16/06/2024	
		: VTL Team		impling Type	: Grab	
1244		Refrigerated		ample Quantity	:2 Ltr	
Nethou	d of sampling	: 15 3025		oordinates	: NA	
S.No.	Test Parameters	Test Method	Results	Units	IS:105	00-2012
					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 CaCO	3) IS: 3025 (P-21). 2009, RA 2019	263.0	mgA	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	68 15	ng/l	75	200
5	Total Alkalinity (as CaCO3	3) 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/i	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 31118 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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	the unimaginable" e Number : VTL/W/09		ULR No Report		: TC112272400 : VTL/W/24062:	in a large and
S.No.	Test Parameters	Test Method	Results	Units	IS:1050	00-2012
					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 mi 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		1

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

"End of Report"









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perience Sample	the unimaginable" a Number : VTL/W/09				Report N	ło.	: VTL/W/240623	30009/B
The second se		: M/s /	ADANI POWER LIMITED		Format I	No	. 7.8 F-01	
A REALING FROM THE		Villag	Village- Raikheda, Block- Tilda Raipur 493225		Party Re	ference No		
		Chha	ittisgarh		Report D	Date	: 29/06/2024	
					Period o	f Analysis	: 23/06/2024-29	/06/2024
Sample	e Description	: Wate	er Sample		Receipt	Date	: 23/06/2024	
Sampli	Ing Location	: Villag	je - Raikheda Tap Water		Samplin	g Datu	: 16/06/2024	
Sample Collected By		: VTL Team			Samplin	g Type	: Grab	
Preser	vation	: Refri	gerated		Sample	Quantity	: 2 Ltr	
Metho	d of sampling	: 15 30	025		Coordin	ates	: NA	
S.No. Test Parameter	5	Test Method	Results		Units	IS:10500-2012		
							Acceptable Limit	Permissible Limit
1	Colour	-	IS : 3025:(P-4)1983, :RA 2017	"BLQ(""	00-5.0)	Hazen	5	15
2	Odour		IS : 3025 (P-5) : RA 2018	Agra	eable	-	Agreeable	Agreeable
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agre	eable	7	Agreeable	Agreeable
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**I	LOQ-5.0)	тgЛ	0.05	No Relaxation
5	Mineral Oil	-	IS 3025 (P-39) 1989	*BLQ(**L	OQ-0.05)	mg/i	0.5	No Relaxation
6	Anionic Detergents (as N	(BAS)	APHA 23rd Edition 5540C 2017	"BLQ(""L	OQ-0.05)	mg/i	0.2	1.0
7	Barium as Ba		APHA 23rd Edition,3111B 2017	*BLQ(**L	.0Q-0.02)	mg/t	0.7	No relaxation

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

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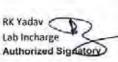


~						10-1122
iample lame Sampl Sampl	e Description : ing Location : e Collected By :	M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 4 Chhattisgarh Water Sample Village - Gaitara Hand Pump Water VTL Team Refrigerated	Form 93225 Party Repo Perio Roce Sam Sam	No. ort No. r Reference No ort Date od of Analysis ript Date pling Date pling Type ple Quantity	 TC112272400 VTL/W/240623 7.8 F-01 29/06/2024 23/06/2024 23/06/2024 16/05/2024 Grab 2 Ltr 	30010/A
		IS 3025	102	dinates	: NA	00-2012
S.No.	Test Parameters	Test Method	Results	Units	Acceptable	Permissible
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	"BLO(""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/(75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	225.0	mg/l	200	600
6	Chioride (as CI)	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	16.26	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	3) mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2	r) 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-0.0	2) mg/l	0,05	1.5
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	"BLQ(""LOQ-0.0	5) mg/l	0.1	0,3











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	RANT		ULR No Report		: TC112272400 ; VTL/W/24062	
S.No.	Test Parameters	Test Method	Results	Units	IS:1050	00-2012
					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 mi	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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ample	the unimaginable" Number: VTL/W/10				Report N	lo.	: VTL/W/240623	30010/B
		: M/s ADANI POWER LIMITED			Format No		7.8 F-01	
		Villag	Village- Raikheda, Block- Tilda Raipur 493225			ference No		
		Chha	ttisgarh		Report D	ate	: 29/06/2024	
				Period o	f Analysis	: 23/06/2024-29	/06/2024	
Sample	e Description	: Wate	r Sample		Receipt	Date	: 23/06/2024	
Sampling Location :		: Villag	e - Galtara Hand Pump Water		Samplin	g Date	: 16/06/2024	
		: VTL Team			Sampling Type		: Grab	
Preser	vation	: Refri	gerated		Sample	Quantity	: 2 Ltr	
Metho	d of sampling	: IS 30	25		Coordin	ates	: NA	
S.No. Test Par	Test Parameters	5	Test Method	Rea	sults	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	Agre	seable	-	Agreeable	Agreeable
3	Taste	-	IS :3025 (P-8): 1984 RA 2017	Agre	eable	-	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 N	IBAS)	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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Sample Number : VTL/S0/0	1
	M/s ADANI POWER LIMITED
	Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh
Name & Address of the Party	1
Sample Description	SOIL
Sampling Location	: Raikheda Village
Sample Collected By	: VTL Team
Parameter Required	: As per work order
Method of sampling	: 15 2720

ULR No.	: TC112272400000097F
Report No.	: VTL/S0/2406230001/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

Parameters	Test Method	Results	Units
pН	IS : 2720 (P- 26): 1987, RA: 2021		- Units
Electrical Conductivity		255.5	mS/cm
Bulk density		1.34	gm/c.c.
Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	101.39	mg/kg
Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03; 2022, STP-06	324.65	mg/kg
Sodium (as Na)	USEPA:3050 B:1996	156.04	mg/kg
Potassium (as K)	USEPA 3050 B: 1996	263.41	kg/hec.
Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.61	%
Exchangeable Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	170.34	mg/kg
Available Nitrogen (N)	IS :14684,1999 RA: 2019	254.57	kg/ha
Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	42.65	kg/ha
Zinc (as Zn)	USEPA 3050 B: 1996	31.66	mg/kg
Manganese (as Mn)	USEPA 3050 B: 1996		mg/kg
Total Lead (as Pb)	USEPA 3050 B: 1996		
fotal Cadmium (as Cd)		11111111	mg/kg
Copper (as Cu)	USEPA 3050 B: 1996	13.34	mg/kg mg/kg
	pH Electrical Conductivity Bulk density	Itest Method pH IS : 2720 (P- 26): 1987, RA: 2021 Electrical Conductivity IS 14767: 2000, RA:2021 Bulk density USDA: 1954 (Page-121), RA: 2014 Chloride (as Cl) USDA: 1954 Method 13 (Page-98), RA: 2010 Exchangeable Calcium (as Ca) Lab SOP No. VTL/STP/03; 2022, STP-06 Sodium (as Na) USEPA:3050 B: 1996 Potassium (as K) USEPA 3050 B: 1996 Organic Matter IS 2720 (P-22) 1972, RA:2020 Exchangeable Magnesium (as Mg) Lab SOP No. VTL/STP/03: 2022, STP-06 Available Nitrogen (N) IS : 14684, 1999 RA: 2019 Available Nitrogen (N) IS : 14684, 1999 RA: 2019 Available Phosphorus (as P) Lab SOP No. VTL/STP/03: 2022, STP-10 Zinc (as Zn) USEPA 3050 B: 1996 Manganese (as Mn) USEPA 3050 B: 1996 Total Lead (as Pb) USEPA 3050 B: 1996 Total Lead (as Pb) USEPA 3050 B: 1996	PH Is: 2720 (P- 26): 1987, RA: 2021 7.76 Electrical Conductivity IS 14767: 2000, RA: 2021 0.301 Bulk density USDA:1954 (Page-121), RA: 2014 1.34 Chloride (as Cl) USDA:1954 Method 13 (Page-98), RA: 2014 101.39 Exchangeable Calcium (as Ca) Lab SOP No. VTL/STP/03; 2022, STP-06 324.65 Sodium (as Na) USEPA:3050 B:1996 156.04 Potassium (as K) USEPA 3050 B: 1996 263.41 Organic Matter IS 2720 (P-22) 1972, RA: 2020 0.61 Exchangeable Magnesium (as Mg) Lab SOP No. VTL/STP/03: 2022, STP-06 170.34 Available Nitrogen (N) IS :14684,1999 RA: 2019 254.57 Available Phosphorus (as P) Lab SOP No. VTL/STP/03: 2022, STP-10 42.65 Zinc (as Zn) USEPA 3050 B: 1996 31.66 Marganese (as Mn) USEPA 3050 B: 1996 31.66 Marganese (as Mn) USEPA 3050 B: 1996 5.20 Total Cadmium (as Cd) USEPA 3050 B: 1996 3.17

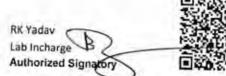
*BLQ=Below Limit of Quantification,**LOQ=Limit of Quantification

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Sample Number : VTL/S0/0	1	Report No.	. MIL ICONDICCOCCORDE
	M/s ADANI POWER LIMITED	Format No	: VTL/S0/2406230001/B : 7.8 F-01
	Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh	Party Reference No	•
Name & Address of the Party	:	Report Date	: 29/06/2024
Sample Description	SOIL	Period of Analysis	: 23/06/2024-29/06/2024
Sampling Location	: Raikheda Village	Receipt Date	: 23/06/2024
Sample Collected By	: VTL Team	Sampling Date Sampling Type	: 20/06/2024
Parameter Required	: As per work order	Sample Quantity	Composite
Method of sampling	: IS 2720	Packing Status	: Temporary Sealed
		Coordinates	: NA

Test Method	Results	1
	Results	Units
JSDA:1954-Reaffirmed, 2010	Reddish	onico
ISDA:1954-Reaffirmed, 2010	1.100.00	0/
USEPA 3050 B:1996		70
	1114	mg/kg
	JSDA:1954-Reaffirmed, 2010	USEPA 3050 B:1996 3.62

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

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Experience the Unimaginable?







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Sample Number : VTL/S0/02	2
	M/s ADANI POWER LIMITED
	Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh
Name & Address of the Party	1
Sample Description	: SOIL
Sampling Location	: Galtara Village
Sample Collected By	: VTL Team
Parameter Required	: As per work order
Method of sampling	: IS 2720

ULR No.	: TC112272400000098F
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		
1	pH		Results	Units
0		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/hec.
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
0	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
2	Zinc (as Zn)	USEPA 3050 B; 1996	27.14	malka
3 1	Manganese (as Mn)	USEPA 3050 B: 1996	28.44	mg/kg
4	Total Lead (as Pb)	USEPA 3050 B: 1996		mg/kg
-	Total Cadmium (as Cd)	A THE R. P. LEWIS CO., M. R. P. LEWIS CO., LANSING MICH.	4,75	mg/kg
		USEPA 3050 B:1996	2.94	mg/kg
6 0	Copper (as Cu)	USEPA 3050 B: 1996	12.21	mg/kg

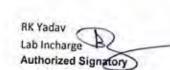
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Sample Number : VIL/S0/0	2 M/s ADANI POWER LIMITED	Report No.	: VTL/S0/2406230002/B
	Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh	Format No Party Reference No	: 7.8 F-01
Name & Address of the Party	:	Report Date	: 29/06/2024
Sample Description	SOL	Period of Analysis	: 23/06/2024-29/06/2024
Sampling Location	: Gaitara Village	Receipt Date Sampling Date	: 23/06/2024 : 20/06/2024
Sample Collected By	: VTL Team	Sampling Type	Composite
Parameter Required	: As per work order	Sample Quantity	2 Kg.
Method of sampling	: IS 2720	Packing Status	: Temporary Sealed
		Coordinates	: NA

Deservation	coordinates . IVA		
Parameters	Test Method	Results	Units
Colour	USDA:1954-Reaffirmed, 2010	Reddish	-
Water holding capacity	USDA:1954-Reaffirmed, 2010	40.22	04
Total Chromium (as Cr)	USEPA 3050 B:1996	State	70
Soil Texture	IS:2720 (P-4) RA:2006		mg/kg
	Water holding capacity Total Chromium (as Cr)	Parameters Test Method Colour USDA:1954-Reaffirmed, 2010 Water holding capacity USDA:1954-Reaffirmed, 2010 Total Chromium (as Cr) USEPA 3050 B:1996	ParametersTest MethodResultsColourUSDA:1954-Reaffirmed, 2010ReddishWater holding capacityUSDA:1954-Reaffirmed, 201040.22Total Chromium (as Cr)USEPA 3050 B:19963.17

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

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Lab Incharge
Authorized Signatory

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9929108691, 9810205356, 8005707098, 9549956601

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"Sample WolfBergable" VTL/SO/02	3
	M/s ADANI POWER LIMITED
	Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh
Name & Address of the Party	1
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.	: TC112272400000099F
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	-
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.31	mS/cm
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	110.75	gm/c.c. 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/hec.
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
2	Zinc (as Zn)	USEPA 3050 B: 1996	38.44	mg/kg
3	Manganese (as Mn)	USEPA 3050 B: 1996	47.49	-
4	Total Lead (as Pb)	USEPA 3050 B: 1996	5.65	mg/kg
5	Total Cadmium (as Cd)	USEPA 3050 B: 1996	3.84	mg/kg
6 (Copper (as Cu)	USEPA 3050 B: 1996	14.25	mg/kg mg/kg

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

End of Report











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Sample Number : VTL/S0/03	3	Report No.	: VTL/S0/2406230003/B
	M/s ADANI POWER LIMITED	Format No	- 7.8 F-01
	Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh	Party Reference No	
Name & Address of the Party		Report Date	: 29/06/2024
		Period of Analysis	: 23/06/2024-29/06/2024
Sample Description	: SOIL	Receipt Date	: 23/06/2024
Sampling Location	: Mura Village	Sampling Date	: 20/06/2024
Sample Collected By	: VTL Team	Sampling Type	: Composite
Parameter Required	: As per work order	Sample Quantity	: 2 Kg.
Method of sampling	: IS 2720	Packing Status	: Temporary Sealed
2.0.000		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	-

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

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RK Yadav B Lab Incharge Authorized Signator

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perience the unimaginable"		UL
Sample Number : VTL/S0/04		Re
	M/s ADANI POWER LIMITED	Fo
	Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh	Pa
Name & Address of the Party	3	Re
Service Service and Service Se		Pe
Sample Description	: SOIL	Re
Sampling Location	: Chicholi Village	Sa
Sample Collected By	: VTL Team	Sa
Parameter Required	: As per work order	Sa
Method of sampling	: IS 2720	Pa
		Co

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/hec.
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

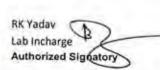
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Sample Number : VTL/S0/04	1	Report No.	: VTL/S0/2406230004/B
	M/s ADANI POWER LIMITED	Format No	: 7.8 F-01
	Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh	Party Reference No	÷
Name & Address of the Party	Cintatuagan	Report Date	: 29/06/2024
hame a Address of the Party		Period of Analysis	: 23/06/2024-29/06/2024
Sample Description	: SOIL	Receipt Date	: 23/06/2024
Sampling Location	: Chicholi Village	Sampling Date	: 20/06/2024
Sample Collected By	: VTL Team	Sampling Type	: Composite
Parameter Required	: As per work order	Sample Quantity	: 2 Kg.
Method of sampling	: IS 2720	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	-

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RK Yadav
Lab Incharge
Authorized Signatory

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IBKANI		ULR No.	: TC112272400000101F
Sample Number : VTL/S0/0	5	Report No.	: VTL/S0/2406230005/A
	M/s ADANI POWER LIMITED	Format No	: 7.8 F-01
	Village- Raikheda, Block- Tilda Raipur 493225	Party Reference No	:
Name & Address of the Party	Chhattisgarh	Report Date	: 29/06/2024
Hume & Address of the Party	·	Period of Analysis	: 23/06/2024-29/06/2024
Sample Description	SOIL	Receipt Date	: 23/06/2024
Sampling Location	: Near Field Hostel Garden	Sampling Date	: 20/06/2024
Sample Collected By	: VTL Team	Sampling Type	: Composite
Parameter Required	: As per work order	Sample Quantity	: 2 Kg.
Method of sampling	: IS 2720	Packing Status	: Temporary Sealed
		Coordinates	:NA

		Coordinates : NA		
S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.89	11.11
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/hec.
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	250.49	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

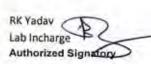
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Sample Number : VTL/S0/0	5	Report No.	: VTL/S0/2406230005/B
	M/s ADANI POWER LIMITED	Format No	: 7.8 F-01
	Village- Raikheda, Block- Tilda Raipur 493225	Party Reference No	1
Name & Address of the Party	Chhattisgarh	Report Date	: 29/06/2024
Name & Address of the Party		Period of Analysis	: 23/06/2024-29/06/2024
Sample Description	: SOIL	Receipt Date	; 23/06/2024
Sampling Location	: Near Field Hostel Garden	Sampling Date	: 20/06/2024
Sample Collected By	: VTL Team	Sampling Type	: Composite
Parameter Required	: As per work order	Sample Quantity	: 2 Kg.
Method of sampling	: IS 2720	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	-

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Sampi Name Sampi Sampi Sampi Preser	the unimaginable" e Number : VTL/W & Address of the Par e Description ing Location e Collected By vation d of sampling	M/s ADAN Village- Ra Chhattisga	ater t	ULR No. Report No. Format No 225 Party Refere Report Date Period of Ar Receipt Date Sampling D Sampling Ty Sample Qua Coordinate	: VTL/ ; 7.8 F ence No ; e ; 29/00 nalysis ; 23/00 e ; 2	5/2024 3/2024-29/06/2024 3/2024 3/2024
S.No.			Test Method	Result	Unit	Limits
1	pН		IS: 3025 (P-11); 2022	7,76		5.5 to 9.0
2	Total Suspended Soli	ds (TSS)	IS: 3025 (P-17): 2022	14.96	mg/l	100
3	Oil & Grease		IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/i	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)		IS: 3025 (P-44): 1993, RA: 2019	11.42	mg/i	90
5	Chemical oxygen Den	nand (COD)	IS 3025 (P-58) 2006 RA: 2017	51.00	mg/l	250

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	RANT the unimaginable" e Number : VTL/WW/(12		ULR No. Report No.	and the second sec	406230002/A
Name & Address of the Party : Ws Villa Chi Sample Description : Wa Sampling Location : STF Sample Collected By : VTI		; M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225		Format No Party Reference No	7.8 F-01	
		Chhattisgarh		Report Date Period of Analysis Receipt Date	: 29/06/2024 : 23/05/2024-29/06/2024	
		Waste Water STP Inlet VTL Team		Sampling Date Sampling Type Sample Quantity	: 23/06/2024 : 21/06/2024 : Grab : 2 Ltr	
	d of sampling	: Refrigerated : IS 3025		Coordinates	: NA	
S.No.	Test Param	eters	Test Method	Rest	ult.	Unit
1	pH		IS: 3025 (P-11): 2022	7.32	2	
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	176.3	12	mg/l
3	Oil & Grease		IS:3025 (P-39): 2021	29.4	5	mg/l
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)		IS: 3025 (P-44): 1993, RA: 2019 70		3	mg/l
5	Chemical oxygen Deman	d (COD)	15 : 3025 (P-58) : 2006 RA: 2017		0	mg/l

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

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erience	the unimaginable" e Number : VTL/WW/	12		ULR No. Report No.	: TC1122724	Trough and
Sample Number : VTL/WW/O Name & Address of the Party Sample Description Sample Collected By Preservation Method of sampling		: M/s ADANI POV	VER LIMITED fa, Block- Tilda Raipur 493225	Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date	± 7.8 F-01 No : : 29/06/2024	
		: VTL Team : Refrigerated : IS 3025		Sampling Type Sample Quantity Coordinates	: Grab : 2 Ltr : NA	
S.No.	Test Param	eters	Test Method	Resu	lt	Unit
1	pH		IS: 3025 (P-11): 2022		2	
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	152,	0	mg/l
3	Oil & Grease		18:3025 (P-39): 2021	*BLQ(**LC	*BLQ(**LOQ-4.0)	
4	Biochemical Oxygen Demand (BOD) (3 days @ 27 ⁴ C)		IS: 3025 (P-44): 1993, RA: 2019	42.0	α	ന്നൂർ
5	Chemical oxygen Demand (COD)		IS : 3025 (P-58) : 2006 RA: 2017	260.	0	mg/l

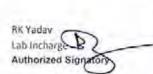
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	he unimaginable"			ULR No.	: TC11	122724000001278F	
	Number: VTL/WW	//03		Report No.	: VTL/	WW/2406230004/A	
	Providence - Southered	M/s ADAN	I POWER LIMITED	Format No	7.8 F	-01	
			aikheda, Block- Tilda Raipur 4932	225 Party Refere	nce No :		
			Chhattisgarh		: 29/00	5/2024	
vame 4	& Address of the Party	:		Period of An	alysis : 23/08	3/2024-29/06/2024	
Sample	e Description	: Waste Wa	ator	Receipt Date		: 23/06/2024	
Sampling Location : ETP Out Sample Collected By : VTL Tear			t	Sampling Date		; 21/06/2024	
			i	Sampling Ty	pe : Grab		
Preser	vation	: Refrigerate	ed	Sample Qua	ntity 12 Ltr		
Method	d of sampling	: 18 3025		Coordinates	: NA		
S.No.	Test Parame	ters	Test Method	Result	Unit	Limits	
1	pH		IS: 3025 (P-11): 2022	8.04		5 5 10 9.0	
2	Total Suspended Solids	(TSS)	IS: 3025 (P-17): 2022	21.12	mg/i	100	
3	Oll & Grease		IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10	
	Biochemical Oxygen Da (3 days @ 27°C)	mand (BOD)	IS: 3025 (P-44): 1993, RA: 2019	15.62	mg/i	30	
5	Chemical oxygen Dema	ind (COD)	IS : 3025 (P-58) : 2006 RA: 2017	69.45	mg/l	250	

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

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	the unimoginable"		ULR	No.	: TC1122724000001279F		
Sampl	e Number : VTL/WW	05	Repo	ort No.	: VTL/WW/2406230005/A		
		M/s ADANI POWER LIMITED	Form	nat No	: 7.8 F-01		
		Village- Raikheda, Block- Tild	a Raipur 493225 Party	Reference No	\$		
		Chhattisgarh	Repo	ort Date	: 29/06/2024		
Sampling Location : Cooling Sample Collected By : VTL Tea		÷	Perio	od of Analysis	23/06/2024-29/06/2024 23/06/2024 21/06/2024		
		: Waste Water	Rece	eipt Date			
		: Cooling Tower Blow Down Inl	et Unit-II Sam	pling Date			
		: VTL Team		pling Type	(Grab		
		: Refrigerated	Sam	ple Quantity	† 2 Ltr		
Metho	d of sampling	: IS 3025	Coor	rdinates	:NA		
S.No.	Test Paramet	ers Test Met	hod Result	Unit	Limits		
1	Chromium (as Cr)	APHA 23rd Edition 2017	on 3113 B. "BLQ(**LOQ	-0.1) mg/l	0.2		
2	Zinc (as Zn)	APHA 23rd Editi 3113 B, 2	AV COLLER A CLEW CLEW	-0.2) mg/)	1.0		
	Residual Free Chlorine	IS: 3025 (P-2	6):2021 0.332	mg/l	0.5		

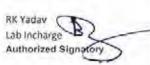
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merice the unimaginable"						
ample Number : VTL/WW	/05		Report No.		: VTL/WW/2	406230005/B
	M/s ADA	NI POWER LIMITED	Format No		: 7.8 F-01	
	Village-1 Chhattis	Raikheda, Block- Tilda Raipur 4932	25 Party Refere	nce No	÷	
Inne P Addense of the Dody	12.0.200	gan	Report Date	-	: 29/06/2024	
Name & Address of the Party : Sample Description : Waste : Sampling Location : Cooling			Period of Ar	nalysis	: 23/06/2024-29/06/2024 : 23/06/2024	
		Vater	Receipt Date	o		
		Tower Blow Down Inlet Unit-II	Sampling D	Sampling Date		: 21/06/2024
Sample Collected By	: VTL Tea	m	Sampling T	pe	: Grab	
reservation	: Refriger	ated	Sample Quantity		‡ 2 Ltr	
Method of sampling	: IS 3025		Coordinate:	5	:NA	
S.No. Test Parame	ters	Test Method	Result	Unit	t	Limits
1 Phosphate (as PO4)		IS 3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/l		3
2 Other Corrosion Inhibiti	an Meterial	APHA 23rd Edition : 2017	ND	mg/l		

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

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Name & Address of the Party Sample Description Sample Collected By Preservation		M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh : Waste Water : Cooling Tower Blow Down Outlet Unit-II : VTL Team	Report Date Period of Analy Receipt Date Sampling Date Sampling Type	: VTL/ ; 7.8 F e No : : 29/0 vsis : 23/0 : 23/0 : 21/0 : Grab	: 29/06/2024 : 23/06/2024-29/06/2024 : 23/06/2024 : 21/06/2024 : Grab	
	vation d of sampling	: Refrigerated : IS 3025	Sample Quanti Coordinates	ty :2 Lu : NA		
S.No.	Test Paramete	rs Test Method	Result	Unit	Limits	
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	5.0	
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	0.6	

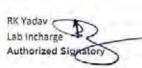
*BLQ-Below Limit OF Quantification, **LOQ- Limit Of Quantification

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perience	the unimaginable"							
Sampl	le Number : VTL/WW/	07		Report No.		: VTL/V	VW/2406230006/B	
		M/s AD/	ANI POWER LIMITED	Format No		: 7.8 F-	01	
			Raikheda, Block- Tilda Raipur 49322	25 Party Refere	nce No	\$		
		Chhattis	garh	Report Date		: 29/06	/2024	
Name	& Address of the Party			Period of Analysis		: 23/06/2024-29/06/2024		
Sample Description		: Waste V	Vater	Receipt Date		; 23/06/2024		
Sampling Location : Co			Tower Blow Down Outlet Unit-II	Sampling Date		: 21/06/2024		
Sample Collected By : V		: VTL Ter	im	Sampling Type		: Grab		
Prese	rvation	: Refriger	ated	Sample Quantity		: 2 Ltr		
Metho	od of sampling	: IS 3025		Coordinates		:NA		
S.No.	Test Paramet	ers	Test Method	Result	Uni		Limits	
1	Phosphate (as PO4)		IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/		5,0	
2	Other Corrosion Inhibitin	g Material	APHA 23rd Edition : 2017	ND	mg/		-	

*BLQ-Below Limit OF Quantification. **LOQ- Limit Of Quantification

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perience	the unimoginable"			ULR No.		TC1122724000001281F		
Samp	le Number : VTL/WW/	03		Report No.		VTL/WW/2406230007/A		
		Village-	NI POWER LIMITED Raikheda, Block- Tilda Raipur 4932	Format No 25 Party Refere	10 million (10	7.8 F-01		
Name	& Address of the Party	Chhattis	garh	Report Date Period of An		: 29/06/2024 : 23/06/2024-29/06/2024		
Samp	Sample Description : Waste \		ater Receipt D		: ::	: 23/06/2024 : 21/06/2024 : Grab : 2 Ltr : NA		
Sampling Location : Cooling Sample Collected By : VTL Tea Preservation : Refriger Method of sampling : IS 3025			Sampling D Sampling Ty Sample Qua Coordinates	ntity ::				
S.No	Test Paramet	ers	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/i	0,5		

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IB	KAN I			ULR No.	-	TC1122724000001282F	
	ble Number : VTL/WW/	14		Report No.	4	VTL/WW/2406230008/A	
		M/s ADA	ANI POWER LIMITED	Format No	1	7.8 F-01	
			Raikheda, Block- Tilda Raipur 4932	25 Party Refere	nce No :		
Name & Address of the Party :		Chhattis	garh	Report Date		29/06/2024	
		5		Period of An	alysis :	: 23/06/2024-29/06/2024	
Sample Description : Waste			Vater	Receipt Date	a 1	: 23/06/2024	
Sample Collected By 1 VTL Te		: Cooling	Water Condenset Outlet unit -II	Sampling Da	ate :	: 21/06/2024	
		L VTL Tea	m	Sampling Ty	pe :	Grab	
		: Refrigera	ated	Sample Qua	ntity :	: 2 Ltr	
Meth	od of sampling	: IS 3025		Coordinates		NA	
S.No	. Test Paramete	rs	Test Method	Result	Unit	Limits	
1	pН		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		15: 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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Sample Name Sample Sample	the unimaginable" a Number : VTL/WW/C & Address of the Party e Description ing Location a Collected By vation	M/s ADANI POWER	Block- Tilda Raipur 493:	ULR No. Report No. Format No 225 Party Referen Report Date Period of Ana Receipt Date Sampling Dat Sampling Typ Sample Quar	: VTi ; 7 8 nce No : ; 29// slysis : 23// ; 23// te ; 21// ce : Gra	06/2024 05/2024-29/06/2024 06/2024 06/2024 05
Metho S.No.	d of sampling	: IS 3025	Tool Mathead	Coordinates	: NA	
5.140.	Test Paramete	irs	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	АРНА	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(**LOO-0.2)	mg/l	1.0
3	Residual Free Chlorine	10	3025 (P-26):2021	0.38	mg/l	0.5

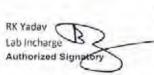
"BLO-Below Limit OF Quantification, "LOQ- Limit Of Quantification

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Sampl	e Number : VTL/WW	ber: VTL/WW/04				: VTL/WW/2406230009/B		
		M/s ADA	ANI POWER LIMITED	Format No		7.8 F-01		
		Village-	Raikheda, Block- Tilda Raipur 4932	25 Party Refere	nce No	: 29/05/2024		
		Chhattis	garh	Report Date				
Name	& Address of the Party			Period of Analysis Receipt Date		: 23/06/2024-29/06/2024 : 23/06/2024		
Sampl	le Description	: Waste V	Vator					
Sampling Location 2 Cooling			Tower Blow Down Inlet Unit-I	Sampling Date		: 21/06/2024		
Sampl	Sample Collected By : VTL Te		m	Sampling Type		: Grab		
Prese	rvation	: Refriger	ated	Sample Quantity		: 2 Ltr		
Metho	d of sampling	: 18 3025		Coordinates	s	:NA		
S.No.	Test Parame	ters	Test Method	Result	Uni	t	Limits	
1	Phosphate (as PO4)		IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/	1	5.0	
2	Other Corrosion Inhibitin	ng Material	APHA 23rd Edition : 2017	ND	mg/	1	~	
-								

*BLO-Below Limit OF Quantification, **LOO- Limit Of Quantification

End of Report











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Sampl	e Number: V	TL/WW/06		Report No.	: VTLA	WW/2406230010/A		
		M/s AD/	NI POWER LIMITED	Format No	: 7.8 F	-01		
			Raikheda, Block- Tilda Ralpur 4933	225 Party Refere	nce No :			
200		Chhattis	gam	Report Date	: 29/08	/2024		
Name	& Address of th	e Party :		Period of An	alysis : 23/06	2024-29/06/2024		
Sampl	e Description	: Waste V	Vater	Receipt Date	: 23/06	2024		
Sampling Location Sample Collected By Preservation		: Cooling	: Cooling Tower Blow Down Outlet Unit-I : VTL Team : Refrigerated		te : 21/06	/2024		
		: VTL Tes			pe : Grab			
		: Refriger			ntity :2 Ltr			
Metho	d of sampling	: 15 3025		Coordinates	: NA	: NA		
S.No.	Test P	arameters	Test Method	Result	Unit	Limits		
1	Chromium (as C	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 C	in a state of the	IS: 3025 (P-26):2021	0.23	mg/l	0.5		

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

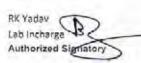
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perience	the unimaginable"						
Sampl	e Number : VTL/WW/	06		Report No.		: VTLW	VVV/2406230010/B
		M/s ADA	NI POWER LIMITED	Format No		: 7.8 F-	01
		Village-	Raikheda, Block- Tilda Raipur 49323	25 Party Refere	nce No		
		Chhattis	gath	Report Date		: 29/06/	2024
Name	& Address of the Party	÷		Period of Ar	alysis	: 23/06/	2024-29/06/2024
Sampl	e Description	: Waste V	Vater	Receipt Date	9	; 23/06/	2024
Sampl	ing Location	: Cooling	Tower Blow Down Outlet Unit-I	Sampling D	ate	; 21/06/	2024
Sampl	e Collected By	: VTL Tea	m	Sampling Ty	pe	: Grab	
Preser	vation	: Refriger	ated	Sample Qua	intity	: 2 Ltr	
Metho	d of sampling	: 18 3025		Coordinates		:NA	
S.No.	Test Paramet	ers	Test Method	Result	Uni	t	Limits
1	Phosphate (as PO4)		IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0,2)	mg/	1	5.0
2	Other Corrosion Inhibitin	g Material	APHA 23rd Edition : 2017	ND.	mg/	1	-

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

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Name & A Sample N Name & A Sample C Sampling	Address of the Party Description J Location Collected By	M/s AD/ Village- Chhattis	Water Water Condenset Inlet unit -I am	ULF Rep Fon 225 Part Rep Peri Rec San San	No. ort No. nat No y Reference ort Date od of Analy eipt Date upling Date upling Type uple Quantit	: No : sis : : t : t :	TC 1122/24000001285F TC 1122/24000001285F TL/WW/2406230011/A 7.8 F-01 29/06/2024 23/06/2024 23/06/2024 23/06/2024 23/06/2024 23/06/2024 21/06/2024 21/06/2024
Method c	of sampling	: 15 3025		Cod	rdinates		NA
S.No.	Test Paramete	ers	Test Method	Resul		Unit	Limits
t pt	4		IS: 3025 (P-11): 2022	7.32		-	5,5 to 8,5
2 Te	emperature		IS: 3025 (P-9): 1984, RA 2017	24.5		*C	Shall not exceed 5°C above the receiving water lemperature
3 R	esidual Free Chlorine	1000	IS: 3025 (P-26):2021	*BLQ(**LOC	1-0.2)	mg/l	0,5

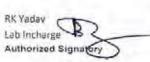
*BLQ-Below Limit OF Quantification, **LOQ- Limit Of Quantification

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	the unimaginable"			ULR No.	12	TG1122724000001286F		
Samp	e Number : VTL/WW/	02		Report No.	: 1	VTL/WW/2406230012/A		
		M/s ADA	NI POWER LIMITED	Format No	4	7.8 F-01		
			Raikheda, Block- Tilda Raipur 4932	25 Party Refere	nce No :			
in a	a land a land a land	Chhattis	garh	Report Date	:3	29/06/2024		
Name	& Address of the Party	-		Period of An	alysis :	23/06/2024-29/06/2024		
Samp	le Description	: Waste V	Vater	Receipt Date	:	23/06/2024		
Sampling Location Sample Collected By Preservation		: Cooling	: Cooling Water Condenset Outlet unit -I		te ::	21/06/2024		
		: VTL Team : Refrigerated		Sampling Ty	pe :	Grab		
				Sample Qua	ntity ::	: 2 Ltr		
Metho	d of sampling	: 18 3025		Coordinates	1	: NA		
S.No.	Test Paramet	ers	Test Method	Result	Unit	Limits		
1	pН		18: 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		

elow Limit OF Quantification, "LOQ- Limit Of Quantification

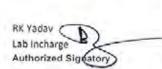
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Project Name: M/s Adani Power Limited

Formerly M/s Raipur Energen Limited located at Village: Raikheda, Block- Tilda, Dist.-Raipur (Chhattisgarh) Ist Quarterly Environmental Monitoring Report

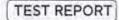
Chapter-5

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 ₂ , NO ₂ ,
		PM_{10} , $PM_{2.5}$, 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.







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

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
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
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
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
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
Time of Monitoring : 09:00 TO 09:00 Hrs. Ambient Temperature (*C) : Min. 25*C Max. 35*C
Ambient Temperature (*C) : Min. 25*C Max. 35*C
Provide and the second se
Surrounding Activity : Human, Vehicular & Other Ac
Scope of Monitoring : Regulatory Requirment
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	hð\w,	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	hð\w ₃	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	hð/w,	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)	hð/wa	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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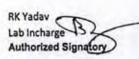
S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
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TEST REPORT

1



Sam

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

: VTL/A/2409270001/B
: 7.8 F-02
: NIL
: 07/10/2024
: 27/09/2024-07/10/2024
: 27/09/2024

npl	e Description : A	MBIENT AIR QUALITY N	40	ONITORING
	General Information:- Sampling Location Sample Collected By	-		Near Raw Water Area VTL Team
	Sampling Equipment use	d :		RDS/FPS
	Instrument Code	:		VTL/RDS/FPS/01
	Coordinates	1		-
	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) :	1	Min. 25°C Max. 35°C
	Surrounding Activity	:	1	Human, Vehicular & Other Act.
	Scope of Monitoring	1		Regulatory Requirment
	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/m³	4
-	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	202.0	hð\w,	
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	hð\w,	-

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

End of Report







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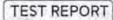
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0141-2954638

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10-11227

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/A
Format No	:	7.8 F-02
Party Reference No	÷	NIL
Report Date	1	07/10/2024
Period of Analysis	:	27/09/2024-07/10/2024
Receipt Date	:	27/09/2024

Sample Description	: AMBIENT AIR QUALIT	TY M	ONITORING
General Informa Sampling Locatio			Near STP
Sample Collected		:	VTL Team
Sampling Equipment used			RDS/FPS
Instrument Code		:	VTL/RDS/FPS/02
Coordinates		:	-
Meteorological co	ondition during monitoring	:	Clear Sky
Date of Monitorin	9		20/09/2024 To 21/09/2024
Time of Monitorin	19	:	09:30 TO 09:30 Hrs.
Ambient Tempera	iture (°C)	:	Min. 25°C Max. 35°C
Surrounding Acti	vity	:	Human, Vehicular & Other Act.
Scope of Monitor	ing	:	Regulatory Requirment
Method of Sampl	Ing	:	IS :5182
Sampling Duratio	n	:	24 Hrs.
Parameter Requir		;	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/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	24.94	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P-6)-2006, RA.2018	14.37	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	8.45	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)	hð/w,	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	µg/m¹	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	hð\w ₂	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



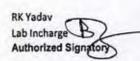
			1.10		
S.No.	Parameters	Test Method	Results	Units	NAAQS 2009

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 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 QUALIT	Y M	ONITORING
General Informa Sampling Location Sample Collected	n	:	Near STP VTL Team
Sampling Equipm	ent used	:	RDS/FPS
Instrument Code		+	VTL/RDS/FPS/02
Coordinates		:	-
Meteorological co	indition during monitoring	:	Clear Sky
Date of Monitoring	9	:	20/09/2024 To 21/09/2024
Time of Monitorin	g	:	09:30 TO 09:30 Hrs.
Ambient Tempera	ture (*C)	:	Min. 25°C Max. 35°C
Surrounding Activ	vity	:	Human, Vehicular & Other Act.
Scope of Monitori	ing	:	Regulatory Requirment
Method of Sampli	ng	:	IS :5182
Sampling Duratio	n	:	24 Hrs.
Parameter Requir	ed	:	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/m³	4
100	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	172.0	µg/m³	-
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	hð\w ₃	-

*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification ***End of Report***







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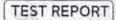
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Name & Address of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh

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 QUALIT	Y M	ONITORING	
General Informa Sampling Locatio	n		Near Old Project Doosan	
Sample Collected			VTL Team	
Sampling Equipm	nent used		RDS/FPS	
Instrument Code		1	VTL/RDS/FPS/03	
Coordinates		:	+	
Meteorological condition during monitoring		:	Clear Sky	
Date of Monitorin	9	:	20/09/2024 To 21/09/2024	
Time of Monitorin	g	:	11:30 TO 11:30 Hrs.	
Ambient Tempera	iture (*C)	-	Min. 25°C Max. 35°C	
Surrounding Acti	vity	:	Human, Vehicular & Other	
Scope of Monitor	ing	:	Regulatory Requirment	
Method of Sampling		:	IS :5182	
Sampling Duratio	n	1	24 Hrs.	
Parameter Requir	ed	4	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	hð/w,	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	hð/wa	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)	hð\w,	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	hð/w,	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	hð\w,	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



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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

ble Description	: AMBIENT AIR QUALIT	TY M	ONITORING
General Informa Sampling Location Sample Collected	n	:	Near Old Project Doosan
Sampling Equips	nent used	:	RDS/FPS
Instrument Code		;	VTL/RDS/FPS/03
Coordinates		:	-
Meteorological co	ondition during monitoring	:	Clear Sky
Date of Monitorin	g	:	20/09/2024 To 21/09/2024
Time of Monitorin	g	:	11:30 TO 11:30 Hrs.
Ambient Tempera	ature (°C)	- :	Min. 25°C Max. 35°C
Surrounding Acti	vity	:	Human, Vehicular & Other Act.
Scope of Monitor	ing	:	Regulatory Requirment
Method of Sampl	ing	:	IS :5182
Sampling Duratio	n		24 Hrs.
Parameter Requi	red	:	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/m³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	211.0	hð\w,	-
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m³	-

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

End of Report







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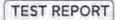
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Name & Address of the Party ; M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh

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

: 27/09/2024-07/10/2024

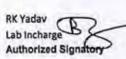
Sample Description : AMBIENT AIR QUALITY MONITORING General Information:-Sampling Location Village - Raikheda (Jitendra House) ÷ Sample Collected By VTL Team Sampling Equipment used RDS/FPS ŝ Instrument Code VTL/RDS/FPS/04 2 Coordinates : -Meteorological condition during monitoring : Clear Sky **Date of Monitoring** : 23/09/2024 To 24/09/2024 **Time of Monitoring** : 09:00 TO 09:00 Hrs. : Min. 27*C Max. 36*C Ambient Temperature (*C) Surrounding Activity : Human, Vehicular & Other Act. Scope of Monitoring **Regulatory Requirment** : 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	hð\w _a	100
2	Particulate Matter (as PM2.5)	IS:5182 (P-24)-2019	21.67	hð\w _a	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P-6)-2006, RA.2018	9.34	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	5.89	hð\w ₂	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006, RA.2017	*BLQ (**LOQ 1.0)	hð\w,	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	hð\w,	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	hð\w _a	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA 2019	*BLQ (**LOQ 0.02)	hð/w,	1
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	*BLQ (**LOQ 0.15)	ng/m²	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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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 QUALIT	YM	ONITORING
General Information Sampling Location Sample Collected	1	:	Village - Raikheda (Jitendra House)
Sampling Equipme	and the second of the second o	:	VTL Team RDS/FPS
Instrument Code Coordinates		:	VTL/RDS/FPS/04
	ndition during monitoring	:	Clear Sky
Date of Monitoring Time of Monitoring		-	23/09/2024 To 24/09/2024 09:00 TO 09:00 Hrs.
Ambient Temperat	ure (*C)	-	Min. 27*C Max. 36*C
Surrounding Activ Scope of Monitori		-	Human, Vehicular & Other Act. Regulatory Requirment
Method of Samplin	g	- :	IS :5182
Sampling Duration Parameter Require		-	24 Hrs. 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/m³	4
	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	142.0	hð/w,	-
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	hð\w,	-

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

""End of Report""







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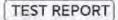
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Sample Number : VTL/AA/08 Re Name & Address of the Party : M/s ADANI POWER LIMITED For Village- Raikheda, Block- Tilda Raipur 493225 Par Chhattisgarh Re Per Re

eport No.	: VTL/A/2409270005/A
ormat No	: 7.8 F-02
arty Reference No	: NIL
eport Date	: 07/10/2024
eriod of Analysis	: 27/09/2024-07/10/2024
eceipt Date	: 27/09/2024

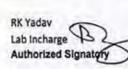
Sample Description	: AMBIENT AIR QUALI	TY M	ONITORING
General Inform Sampling Locati Sample Collecte	on		Village - Gaitara (Amardas House) VTL Team
Sampling Equip	ment used	:	RDS/FPS
Instrument Code		:	VTL/RDS/FPS/03
Coordinates		:	-
Meteorological c	ondition during monitoring	:	Clear Sky
Date of Monitori	ng	.:	23/09/2024 To 24/09/2024
Time of Monitori	ng	:	09:30 TO 09:30 Hrs.
Ambient Temper	ature (*C)	:	Min. 27*C Max. 36*C
Surrounding Act	tivity	- 2	Human, Vehicular & Other Act.
Scope of Monito	ring	:	Regulatory Requirment
Method of Samp	ling	:	IS :5182
Sampling Durati	no	:	24 Hrs.
Parameter Requ	ired	:	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	hð\w _a	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)	hð\w ₃	5
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	*BLQ (**LOQ 2.0)	hð\w,	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	hð\w,	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	hð\w,	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



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 QUALIT	TY M	IONITORING
General Informa Sampling Locatio Sample Collected	n By		Village - Gaitara (Amardas House) VTL Team
Sampling Equipm	ent used	:	RDS/FPS
Instrument Code		:	VTL/RDS/FPS/03
Coordinates		:	-
Meteorological co	ndition during monitoring	:	Clear Sky
Date of Monitoring	1	:	23/09/2024 To 24/09/2024
Time of Monitorin	9	:	09:30 TO 09:30 Hrs.
Ambient Tempera	ture (°C)	:	Min. 27*C Max. 36*C
Surrounding Activ	vity	:	Human, Vehicular & Other Act.
Scope of Monitori	ng	:	Regulatory Requirment
Method of Sampli	ng	:	IS :5182
Sampling Duration	1	:	24 Hrs.
Parameter Require	be	:	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/m³	4
2	Suspended Particulate Matter (as SPM)	IS:5182 (P- 4) :1999, RA.2014	127.0	hð/w,	-
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	µg/m³	-

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

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9929108691, 9810205356, 8005707098, 9549956601

- ☎ 0141-2954638
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a www.vibranttechnolab.com





: VTL/A/2409270006/A

: 27/09/2024-07/10/2024

: 7.8 F-02

: 07/10/2024

: 27/09/2024

: NIL

Report No. Name & Address of the Party : M/s ADANI POWER LIMITED Format No Village- Raikheda, Block- Tilda Raipur 493225 Party Reference No Chhattisgarh **Report Date** Period of Analysis **Receipt Date** Sample Description : AMBIENT AIR QUALITY MONITORING General Information:-Sampling Location : Village - Chicholi (Vikash Rajput House) Sample Collected By VTL Team 2 Sampling Equipment used RDS/FPS Instrument Code VTL/RDS/FPS/02 : Coordinates 2 Meteorological condition during monitoring Clear Sky 2 **Date of Monitoring** 1

Time of Monitoring : Ambient Temperature (*C) : Surrounding Activity : Scope of Monitoring : Method of Sampling : Sampling Duration :

Parameter Required

KUS/FPS
 VTL/RDS/FPS/02
 Clear Sky
 23/09/2024 To 24/09/2024
 12:30 TO 12:30 Hrs.
 Min. 27*C Max. 36*C
 Human, Vehicular & Other Act.
 Regulatory Requirment
 10.2520

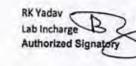
: IS :5182 : 24 Hrs. : As per work order Test Method

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) Nitrogen Dioxide (as NO2) Sulphur Dioxide (as SO2)	IS:5182 (P- 24)-2019 IS:5182 (P- 6)-2006, RA.2018 IS:5182 (P- 2)-2001, RA. 2018	23.16 7.29 5.43	hð\w ₃ hð\w ₃	60 80 80
3					
4					
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)	hð\w ₂	400
7	Ozone (as O3)	IS 5182 (P-9):1974, RA.2019	*BLQ (**LOQ 4.0)	hð\w ₂	180
8	Lead (as Pb)	IS 5182 (P-22) : 2004, RA.2019	*BLQ (**LOQ 0.02)	hð/w,	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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Name & Address of the Party ; M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh

: VTL/A/2409270006/B
: 7.8 F-02
: NIL
: 07/10/2024
: 27/09/2024-07/10/2024
: 27/09/2024

			in the second se	
Sample Description	: AMBIENT AIR QUALIT	YM	IONITORING	
Sampling Locatio	General Information:- Sampling Location Sample Collected By Sampling Equipment used Instrument Code Coordinates Meteorological condition during monitoring		Village - Chicholi (Vikash Rajput House) VTL Team RDS/FPS VTL/RDS/FPS/02	
			-	
Meteorological co			Clear Sky	
Date of Monitorin	9	:	23/09/2024 To 24/09/2024	
Time of Monitorin	Time of Monitoring Ambient Temperature (*C)		12:30 TO 12:30 Hrs.	
Ambient Tempera			Min. 27*C Max. 36*C	
Surrounding Activ	rity	:	Human, Vehicular & Other Act.	
Scope of Monitori	Scope of Monitoring Method of Sampling Sampling Duration		Regulatory Requirment	
Method of Sampli			IS :5182	
Sampling Duration			24 Hrs.	
Parameter Require	bed	:	As per work order	

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO) Suspended Particulate Matter (as SPM)	IS:5182 (P- 10)-1999, RA. 2019 (NDIR) IS:5182 (P- 4) :1999, RA.2014	0.31 139.0	mg/m³ µg/m³	4
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	hð\w ₂	

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

End of Report







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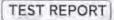
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1







: VTL/A/2409270007/A

: 27/09/2024-07/10/2024

: 7.8 F-02

: 07/10/2024

: 27/09/2024

Report No. Name & Address of the Party : M/s ADANI POWER LIMITED Format No Village- Raikheda, Block- Tilda Raipur 493225 Party Reference No : NIL Chhattisgarh Report Date Period of Analysis Receipt Date Sample Description : AMBIENT AIR QUALITY MONITORING General Information:-Sampling Location : Village - Mura (Near Petrol Pump) Sample Collected By

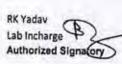
Sample Collected By	: VTL Team
Sampling Equipment used	: RDS/FPS
Instrument Code	: VTL/RDS/FPS/01
Coordinates	1 -
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 23/09/2024 To 24/09/2024
Time of Monitoring	: 10:30 TO 10:30 Hrs.
Ambient Temperature (*C)	: Min. 27*C Max. 36*C
Surrounding Activity	: Human, Vehicular & Other Act.
Scope of Monitoring	: Regulatory Requirment
Method of Sampling	: IS:5182
Sampling Duration	: 24 Hrs.
Parameter Required	*: As per work order

	· ·····	· 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)	hð\w,	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
	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004, RA.2019	*BLQ (**LOQ 0.2)	ng/m³	1











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

: VTL/A/2409270007/B
: 7.8 F-02
: NIL
: 07/10/2024
: 27/09/2024-07/10/2024
: 27/09/2024

manual manufactures			
Sample Description	: AMBIENT AIR QUALIT	TY M	ONITORING
General Inform Sampling Location	on	:	Village - Mura (Near Petrol Pump)
Sample Collecter	d By	:	VTL Team
Sampling Equipr	nent used	:	RDS/FPS
Instrument Code		:	VTL/RDS/FPS/01
Coordinates		:	-
Meteorological c	ondition during monitoring	:	Clear Sky
Date of Monitorin	19	:	23/09/2024 To 24/09/2024
Time of Monitori	ng	:	10:30 TO 10:30 Hrs.
Ambient Temper	ature (*C)	:	Min. 27*C Max. 36*C
Surrounding Act	ivity	:	Human, Vehicular & Other Act.
Scope of Monitor	ring	:	Regulatory Requirment
Method of Sampl	ing	:	IS :5182
Sampling Duration	n	:	24 Hrs.
Parameter Regul	red	:	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/m³	4
1.1	Suspended Particulate Matter (as SPM)	IS:5182 (P-4) :1999, RA.2014	128.0	hð\w,	
3	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ(**LOQ-0.5)	hð\w,	-

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

End of Report







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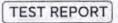
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Sampling Description:

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

Report No.:	
Format No.:	
Party Reference N	0.:
Report Date:	
Period of Analysis	÷
Sampling Date:	

VTL/FA/2409270001/B 7.8 F-01 NIL 07/10/2024 27/09/2024-07/10/2024 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

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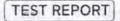
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 9929108691, 9810205356, 8005707098, 9549956601

2 0141-2954638

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Sampling Description:

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

BOTTOM ASH

Report No.: Format No.:

Party Reference No.: Report Date: Period of Analysis: Sampling Date: VTL/BA/2409270001/B 7.8 F-01

NIL 07/10/2024 27/09/2024-07/10/2024 24/09/2024

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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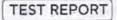
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0141-2954638

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Sampling Description:

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

POND ASH

Report No.: Format No.:

Party Reference No.: Report Date: Period of Analysis: Sampling Date: VTL/PA/2409270001/B 7.8 F-01

NIL 07/10/2024 27/09/2024-07/10/2024 24/09/2024

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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www.vibranttechnolab.com

Project Name: M/s Adani Power Limited

Formerly M/s Raipur Energen Limited located at Village: Raikheda, Block- Tilda, Dist.-Raipur (Chhattisgarh)

II nd Quarterly Environmental Monitoring Report

4.1b Stack Monitoring

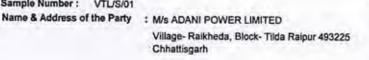


Figure No.4 Plan Showing Stack Location

Stack Location

- Stack Unit-I
- Stack Unit-II





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TC-11227

 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

S.No.	Parameters		Test Method
	Coordinates	1	-
	Protocol used	:	IS 11255 & USEPA
	Sampling condition	:	OK
	Flow rate of Gas (LPM)	:	2.0
	Flow rate of PM (LPM)	:	31
	Velocity of Stack Gases (m/sec.)	:	22.40
	Temperature of Stack Gases - Ts (°C)	4	138°c
	Ambient Temperature - Ta (°C)	:	30°C
	Meteorological Condition	1	Clear Sky
	Instrument calibration status	1	Calibrated
	Height of stack(m)	:	275 m
	Diameter of stack(m)	:	7.5 m
	Make of stack	:	MS
	Stack attached to	:	ESP
	Sampling duration (Minutes)		32 min. (12:20 to 12:52 hrs.
	Date of Sampling	-	19/09/2024
	Sample Collected By		VTL Team
	General Information:- Sampling Location		Stack Unit-I
Sample	Description : Stack Emission	Mo	nitoring

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 (SO2)	IS: 11255(P- 2): 1985, RA.2019	845.0	mg/Nm3	-
3	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017	211.06	mg/Nm3	4
4	Mercury (Hg)	USEPA 29: 1996	"BLQ(""LOQ0 01)	mg/Nm3	-

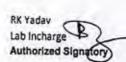
*BLQ= Below Limit Of Quantification, **LOQ= Limit Of Quantification

End of Report











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

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

Sampl	e Description : Stack Emission	n 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	4 -
S.No.	Parameters	Test Method
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019
2	Sulphur Dioxide (SO2)	IS: 11255(P-2): 1985, RA.2019
3	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017

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

End of Report

USEPA 29: 1996



4

Mercury (Hg)







Results

38.75

958.0

232.0

*BLQ(**LOQ-.0

01)

Units

mg/Nm3

mg/Nm3

mg/Nm3

mg/Nm3



Limits

50

-

+

-

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S.No. Test Para	ameters	-	Protocol		Test Result dB(A)
Coordinates		:	-		
Parameter Required		:	As per work order		
Surrounding Activity		:	Human, Vehicular & O	ther Act.	
Ambient Temperatur	e (*C)	:	Min. 27*C Max. 36*C		
Time of Monitoring		+	06:00 TO 06:00 Hrs.		
Date of Monitoring		:	23/09/2024 To 24/09/2	2024	
Meteorological cond	ition during monitoring	: :	Clear Sky		
Instrument Code		:	VTU/SLM/01		
Sampling Location		:	Near Admin Building		
General Informatio	on:-				
Protocol Used Instrument Used	: IS 9989 : SLM			Instrument Calibration Status	; Calibrated
Scope of Monitoring	: Regulatory Requirme	Int		Sample Collected	: VTL Team
Sample Description	: Ambient Noise Leve		toring	Sampling Duration	: 24 Hrs.
				Receipt Date	: 27/09/2024
	Chhattisgarh	100A- 11	ida Kalpul 495225	Party Reference No Report Date	: NIL : 07/10/2024
Name & Address of the Party	: M/s ADANI POWER Village- Raikheda, Bl	A		Format No	; 7.8 F-04
Sample Number : VTL/AN/0				Report No.	: VTL/N/2409270001/A

S.No.	Test Parameters	Test Parameters Protocol		Test Result dB(A)		
	All and a second		Day Time	Night Time		
1	Leg	IS 9989 - 1981 RA:2020	55.1	47.6		
	315	ands as per Noise Pollution (Regulation and Cont	mil Rules 2000			

Area Code	Category of Area/Zone	Limits i	n dB(A) Leq*
		Day Time	Night Time
A	Industrial area	75	70
8 -	Commercial area	65	55
C	Residential area	55	45
0	Silence Zone	50	40

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

Night Time is reckoned between 10.00 PM to 5.00 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

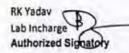
these zones. Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

***End of Report**











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- www.vibranttechnolab.com





Sample Number : VTL/AN/02	2			Report No.	: VTL/N/2409270002/A
Name & Address of the Party	: M/s ADANI POWER LIN	AITE	D	Format No	: 7.8 F-04
	Village- Raikheda, Block	(- T	Ida Raipur 493225	Party Reference No	: NIL
	Chhattisgarh			Report Date	: 07/10/2024
				Receipt Date	: 27/09/2024
Sample Description	: Ambient Noise Level N	Ion	itoring	Sampling Duration	: 24 Hrs.
Scope of Monitoring	: Regulatory Requirment			Sample Collected	: VTL Team
Protocol Used Instrument Used	: IS 9989 : SLM			Instrument Calibration Status	; Calibrated
General Informatio	n:-				
Sampling Location		:	Near Field Hostel		
Instrument Code		:	VTL/SLM/02		
Meteorological condi	tion during monitoring	:	Clear Sky		
Date of Monitoring		:	23/09/2024 To 24/09/20	24	
Time of Monitoring		:	06:00 TO 06:00 Hrs.		
Ambient Temperature	(°C)	:	Min. 27*C Max. 36*C		
Surrounding Activity		:	Human, Vehicular & Ot	her Act.	
Parameter Required		;	As per work order		

Coordinates

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

Area Code	Category of Area/Zone	Limits	n 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

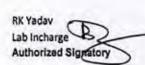
these zones. Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

""End of Report""











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9929108691, 9810205356, 8005707098, 9549956601

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EL)	
VIBRANT	
"Experience the unimoginable" Sample Number :	VT

aslance the unimeninghis"					
Sample Number : VTL/AN/0	3			Report No.	; VTL/N/2409270003/A
Name & Address of the Party	: M/s ADANI POWER LI	IMITED ock- Tilda Raipur 493225		Format No	: 7.8 F-04
				Party Reference No	: NIL
	Chhattisgarh			Report Date	: 07/10/2024
				Receipt Date	: 27/09/2024
Sample Description	: Ambient Noise Level N	Mon	itoring	Sampling Duration	: 24 Hrs.
Scope of Monitoring	: Regulatory Requirment			Sample Collected	: VTL Team
Protocol Used Instrument Used	: IS 9989 : SLM			Instrument Calibration Status	: Calibrated
General Informatio	on:-				
Sampling Location		;	Gate No2 (Gaitara G	late)	
Instrument Code		4	VTL/SLM/01		
Meteorological condi	ition during monitoring	:	Clear Sky		
Date of Monitoring		:	20/09/2024 To 21/09/2	024	
Time of Monitoring		:	06:00 TO 05:00 Hrs.		
Amblent Temperature	e (°C)		Min. 25°C Max. 35°C		
Surrounding Activity		:	Human, Vehicular & O	ther Act.	
Parameter Required		:	As per work order		

Coord	inates	
-	Test	D

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

Area Code	Category of Area/Zone	Limits i	n dB(A) Leg*
		Day Time	Night Time
A	Industrial area	75	70
8	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 unimoginable Sample Number :	v
Name & Address of	the

Sample Number: VTL/AN/0	4			Report No.	: VTL/N/2409270004/A
Name & Address of the Party	: Ws ADANI POWER LI Village- Raikheda, Bloc Chhattisgarh		the second se	Format No Party Reference No Report Date Receipt Date	: 7.8 F-04 : NIL : 07/10/2024 : 27/09/2024
Sample Description Scope of Monitoring Protocol Used	: Ambient Noise Level I : Regulatory Requirment	-	litoring	Sampling Duration Sample Collected	: 24 Hrs. : VTL Team
Instrument Used	: IS 9989 : SLM			Instrument Calibration Status	; Calibrated
General Informatio)n:-				
Sampling Location		:	Near Gate No,-01		
Instrument Code		;	VTL/SLM/01		
	tion during monitoring	:	Clear Sky		
Date of Monitoring		12	20/09/2024 To 21/09/	2024	

:

	Coordinates			
S.No.	Test Parameters	Protocol	Test Re	suit dB(A)
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	51.5	40.3
200	Ambient Noise Quality	Standards as per Noise Pollution (Regulation and	Control) Rules, 2000	
Area	Code	Category of Area/Zone	Limits in dB(A) Leg*
			Day Time	Night Time
2	A	Industrial area	75	70
	B	Commercial area	65	55
	C	Residential area	55	45
	D	Silence Zone	50	40

06:00 TO 06:00 Hrs.

: Human, Vehicular & Other Act.

: Min. 25°C Max. 35°C

: As per work order

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

Time of Monitoring

Surrounding Activity

Parameter Required

Ambient Temperature (*C)

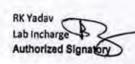
 Night Time is reckoned between 10.00 PM to 6.00 AM.
 Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones. Note: Mixed categories of areas be declared as one of the four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

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Test Para	meters		Protocol		Test Result dB(A)
Coordinates		:	-	martin	
Parameter Required		:	As per work order		
Surrounding Activity		:	Human, Vehicular & O	ther Act.	
Ambient Temperature	(°C)	:	Min. 27*C Max. 36*C		
Time of Monitoring		:	06:00 TO 06:00 Hrs.		
Date of Monitoring		:	23/09/2024 To 24/09/2	024	
Meteorological condi	tion during monitoring	;	Clear Sky		
Instrument Code		1	VTL/SLM/03		
Sampling Location		.:	Near Mura Village Gat	e	
General Informatio	n:-				
ent Used	: SLM			Instrument Calibration Status	; Calibrated
		t		Sample Collected	: VTL Team
			itoring	Sampling Duration	: 24 Hrs.
	· · ·			Receipt Date	: 27/09/2024
	Chhattisgarh	CK- I	ida Raipur 493225		: NIL : 07/10/2024
Address of the Party	· Contraction of the last of t		The second s	Format No	: 7.8 F-04
	The state of the second s			Report No.	: VTL/N/2409270005/A
	Address of the Party Address of the Party Description f Monitoring Used ent Used General Informatio Sampling Location Instrument Code Meteorological condii Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Parameter Required Coordinates	Number: VTL/AN/05 Address of the Party : M/s ADANI POWER L Village- Raikheda, Bio Chhattisgarh Description : Ambient Noise Level f Monitoring : Regulatory Reguliment I Used : IS 9989 ent Used : SLM General Information:- Sampling Location Instrument Code Meteorological condition during monitoring Date of Monitoring Time of Monitoring Ambient Temperature (*C) Surrounding Activity Parameter Reguired	Nimosinable" VTL/AN/05 Address of the Party : M/s ADANI POWER LIMITA Village- Raikheda, Block- T Chhattisgarh Description : Amblent Noise Level Mon f Monitoring : Regulatory Requirment I Used : IS 9989 ent Used : SLM General Information:- Sampling Location : Instrument Code : Meteorological condition during monitoring : Date of Monitoring : Time of Monitoring : Amblent Temperature (*C) : Surrounding Activity :	Number : VTL/AN/05 Address of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh Description : Amblent Noise Level Monitoring f Monitoring : Regulatory Requirment I Used : IS 9989 ent 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 24/09/2 Time of Monitoring : 06:00 TO 06:00 Hrs. Amblent Temperature (*C) : Min. 27*C Max. 36*C Surrounding Activity : Human, Vehicular & O Parameter Required : As per work order Coordinates :	Number : VTL/AN/05 Address of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh Description : Ambient Noise Level Monitoring Monitoring : Regulatory Requirment 1 Used : IS 9989 ent 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 : -

S.No.	Test Parameters	Protocol	Test Re	sult dB(A)
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	51.6	40.8
-	Ambient Noise Quality Stand	ards as per Noise Pollution (Regulation and Cont	roll Rules 2000	

Area Code	Category of Area/Zone	Limits	n dB(A) Leq*
		Day Time	Night Time
A	Industrial area	75	70
8	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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<u> </u>	Leq Ambler	nt Noise Quality Standards a	s per	IS 9989 - 1981 RA:2 Noise Pollution (Regulati		49.8	38.5
-	1		-	10 0000 1001 01 0		Day Time	
S.No.	Test Para	meters		Protocol	IL.	Tes	t Result dB(A)
_	Coordinates		:	-			
	Parameter Required		:	As per work order			
	Surrounding Activity		-	Human, Vehicular & C	ther Act.		
	Ambient Temperature	e (°C)	4	Min. 27*C Max. 36*C			
	Time of Monitoring		:	06:00 TO 06:00 Hrs.			
	Date of Monitoring		:	23/09/2024 To 24/09/2	2024		
	Meteorological cond	tion during monitoring	:	Clear Sky			
	Instrument Code		:	VTL/SLM/04			
	Sampling Location		:	Gate No3 (Bhatapan	a)		
	General Informatio	on:-			ounoration stat	19	
Instru	ment Used	: SLM			Instrument Calibration Stat		brated
Proto	col Used	: IS 9989			Sample Collecte	a :VTL	. Team
	e of Monitoring	: Ambient Noise Level : Regulatory Requirment		itoring	Sampling Durat		
Samo	le Description				Receipt Date		09/2024
					Report Date	: 07/	10/2024
		Village- Raikheda, Blo Chhattisgarh	ck-T	lida Raipur 493225	Party Reference	No : NIL	
Name	& Address of the Party	: M/s ADANI POWER L			Format No	: 7.8	F-04
	le Number : VTL/AN/0	0			Report No.	: VII	L/N/2409270006/A

Area Code	Category of Area/Zone	Limits i	n 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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S.No. Test Para	meters .		Protocol		Test Result dB(A)
Coordinates		:	-		
Parameter Required		:	As per work order		
Surrounding Activity		:	Human, Vehicular & O	ther Act.	
Ambient Temperature	(°C)	;	Min. 28°C Max. 36°C		
Time of Monitoring		:	06:00 TO 05:00 Hrs.		
Date of Monitoring		:	24/09/2024 To 25/09/2	024	
Meteorological condi	tion during monitoring	:	Clear Sky		
Instrument Code		:	VTL/SLM/01		
Sampling Location		:	Near OHC		
General Informatio	n:-				
Instrument Used	: SLM			Instrument Calibration Status	: Calibrated
Scope of Monitoring Protocol Used	: Regulatory Requimen : IS 9989			Sample Collected	: VTL Team
Sample Description	: Ambient Noise Level		nitoring	Sampling Duration	: 24 Hrs.
				Receipt Date	: 27/09/2024
	Chhattisgarh			Report Date	: 07/10/2024
	Village- Raikheda, Blo	ck-T	ilda Raipur 493225	Party Reference No	: NIL
Name & Address of the Party	: M/s ADANI POWER L	IMIT	ED	Format No	: 7.8 F-04
Sample Number : VTL/AN/0	7			Report No.	: VTL/N/2409270007/A

S.No.	Test Parameters .	Protocol	Test Re	sult dB(A)
1			Day Time	Night Time
1 Le	P	IS 9989 - 1981 RA:2020	49.1	38.4
-	Ambient Noise Quality Standan	is as per Noise Pollution (Regulation and Cont	rol) 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
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VIBRANT Experience the unimoginable Sample Number :	•
Name & Address of t	h

Sample Number : VTL/AN/0	B			Report No.	: VTL/N/2409270008/A
Name & Address of the Party		-	and the second sec	Format No	: 7.8 F-04
		:k- T	ilda Raipur 493225	Party Reference No	: NIL
Conattisgam				Report Date	: 07/10/2024
				Receipt Date	: 27/09/2024
Sample Description	: Ambient Noise Level I	Mon	itoring	Sampling Duration	: 24 Hrs.
				Sample Collected	: VTL Team
Protocol Used Instrument Used	: IS 9989 : SLM			Instrument Calibration Status	: Calibrated
General Informatio	n:-				
Sampling Location			Near Weigh Bridge		
Instrument Code	n:- ion during monitoring	:	VTL/SLM/02		
Meteorological condi	tion during monitoring	:	Clear Sky		
Date of Monitoring		:	24/09/2024 To 25/09/2	024	
Time of Monitoring	Address of the Party : M/s ADANI POWER U Village- Raikheda, Bio Chhattisgarh Description : Ambient Noise Level of Monitoring : Regulatory Requirment Used : IS 9989 ent Used : SLM General Information:- Sampling Location Instrument Code Meteorological condition during monitoring Date of Monitoring	:	06:00 TO 06:00 Hrs.		
Ambient Temperature			Min. 28"C Max 36"C		

Surrounding Activity : Human, Vehicular & Other Act. Parameter Required : As per work order Coordinates : -

S.No.	Test Parameters	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 S	tandards as per Noise Pollution (Regulation and Cont	rol) Rules, 2000		
	Cada	Categoon of Area Deea	I lepite in d0/	Alleat	

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

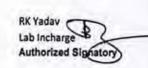
1. Day Time is from 6.00 AM to 10.00 PM.

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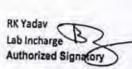


Nam Sam Sam Pres	the winnapirable" VTL/SW/C iple Number : VTL/SW/C iple Description ipling Location iple Collected By servation hod of sampling	: M/s ADANI PO		ULR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: VTL/W/24 : 7.8 F-01 : NIL : 07/10/2024	4 4-07/10/2024 4
S.No	o. Test Param	eters	Test Method	Resu	lts	Unit
1	pH value		IS: 3025 (P-11): 2022	7.0	5	-
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 20	17 5.6		NTU
3	Total Dissolved Solids (TI	DS)	IS : 3025 (P-16) : 1984, RA 201	17 325.	0	mg/l
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 201	9 82.0)	mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec. RA 2	022 18.3	8	mg/l
6	Total Alkalinity (as CaCO		IS: 3025 (P- 23) : 1985, RA 201	19 121.	0	mg/l
7	Total Hardness (CaCO3)		IS: 3025 (P- 21) : 2009, RA 201	19 112.	0	mg/l
8	Calcium (as Ca)		IS : 3025 (P-40) : 1991 RA 201	9 26.0	26.0	
9	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 201	19 11.4	5	mg/l
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 201	7 0.58	6	mg/l
11	Phenolic compounds		APHA 23rd Edition, 5530C, 201	7 *BLQ(**LOC	2-0.001)	mg/l
12	Dissolved oxygen (DO)	-	IS : 3025 (P -38) : 1989, RA 20	19 5.2		mg/l
13	Biochemical Oxygen Dem days at 27°C)	nand (BOD) (3	IS: 3025 (P-44) : 1993, RA : 201	9 6.1		mg/l
14	Chemical Oxygen Demand	(COD)	IS: 3025 (P-58) : 2006 RA 20	17 30.0	1	mg/l
15	Iron (as Fe)		APHA 23rd Edition,3111B, 201	7 *BLQ(**LO	Q-0.1)	mg/l
16	Zinc (as Zn)		APHA 23rd Edition, 3030D,3113 2017	B, *BLQ(**LO	Q-0.2)	mg/l
17	Copper (as Cu)		APHA 23rd edition, 3111B, 201	7 *BLQ(**LOC	2-0.02)	mg/l
18	Manganese (as Mn)		APHA 23rd Edition, 3030D,3113 2017	B, BLQ("LOO	2-0.05)	mg/l
19	Lead (as Pb)		APHA 23rd Edition, 3030D,3113 2017	B, *BLQ(**LOQ	-0.005)	mg/l
20	Arsenic (as As)		APHA 23rd Edition, 3030D,31140 2017	C, *BLQ(**LOQ	-0.005)	mg/l
21	Boron (as B)		APHA 23rd Edition, 4500D, 2017	BLQ(**LOC	2-5.0)	mg/l











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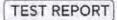
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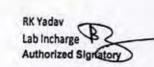
Sampl	e Number : VTL/SW/01		R No. : TC1122724 port No. : VTL/W/240	
S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition, 3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

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Vill Ch Sample Description : SL Sampling Location : Mu Sample Collected By : VT Preservation : Re Method of sampling : IS		ddress of the Party : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh escription : SURFACE WATER		Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date	: VTL/W/2409270011/8 : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024-07/10/2024 : 27/09/2024 : 25/09/2024	
		: VTL Team : Refrigerated : IS 3025	Refrigerated		: Grab : 2 Ltr : NA	
S.No.	Test Param	eters	Test Method	Resul	ts	Unit
1	Colour		IS : 3025 (P-4) : 2021	*BLQ(**LO	Q-5.0)	CU
2	Odour		IS: 3025 (P-5): 2018	Agreea	ble	
3	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017	*BLQ(**LO	Q-5.0)	mg/l
4	4 Aluminium (as Al)		IS : 3025 : (P-55) 2003, RA 2019	BLQ(**LO	2-0.03)	mg/l
5	5 Oil & Grease		IS : 3025 (P-39) 1991, RA 2019	*BLQ(**LO	Q-4.0)	mg/l
6	Anionic Detergents (MBA	S)	APHA 23rd ed., 2017, 5530C	"BLQ(""LOO	2 0.02)	mg/i

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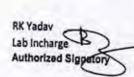


San San San Pre	me & Address of the Par nple Description npling Location nple Collected By servation thod of sampling			Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: 7.8 F-01 : NIL : 07/10/202	4-07/10/2024 4
S.N	o. Test Par	ameters	Test Method	Resu		Unit
1	pH value		IS: 3025 (P-11): 2022	7.2	2	-
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 20	17 6.9		NTU
3	Total Dissolved Solids	(TDS)	IS : 3025 (P-16) : 1984, RA 201	17 435.	0	mg/i
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 201	9 28.6	7	mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec. RA 2	022 17.3	2	mg/l
6	Total Alkalinity (as Ca	CO3)	IS: 3025 (P- 23) : 1986, RA 201	19 147.	0	mg/l
7	Total Hardness (CaCO	03)	IS: 3025 (P- 21) : 2009, RA 201	9 108.0	0	mg/l
8	Calcium (as Ca)		IS : 3025 (P-40) : 1991 RA 201	9 22.6	22.6	
9	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 201	19 12.54	12.54	
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 201	7 0.69		mg/i mg/i
11	Phenolic compounds		APHA 23rd Edition, 5530C, 201	7 *BLQ(**LOG	-0.001)	mg/l
12	Dissolved oxygen (DO)	IS : 3025 (P -38) : 1989, RA 201	19 5.2		mg/l
13	Biochemical Oxygen D days at 27°C)		IS: 3025 (P-44) : 1993, RA : 201	9 5.0		mg/l
14	Chemical Oxygen Dem	and (COD)	IS: 3025 (P-58) : 2006 RA 201	17 25.0		mg/l
15	Iron (as Fe)		APHA 23rd Edition,3111B, 2017	7 *BLQ(**LO	2-0.1)	mg/l
16	Zinc (as Zn)		APHA 23rd Edition, 3030D,31131 2017	B, *BLQ(**LOO	2-0.2)	mg/l
17	Copper (as Cu)	Fre	APHA 23rd edition, 3111B, 2017	7 *BLQ(**LOC	-0.02)	mg/l
18	Manganese (as Mn)		APHA 23rd Edition, 3030D,31138 2017	B, *BLQ(**LOO	-0.05)	mg/l
19	Lead (as Pb)		APHA 23rd Edition, 3030D,3113E 2017	BLQ(**LOQ	0.005)	mg/l
20	Arsenic (as As)		APHA 23rd Edition, 3030D,31140 2017	BLQ("LOQ-	0.005)	mg/l
21	Boron (as B)		APHA 23rd Edition, 4500D, 2017	"BLQ("LOC	5.0)	mg/l











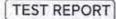
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Sample	Number: VTL/SW/02		R No. : TC1122724 port No. : VTL/W/240	
S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cedmium (as Cd)	APHA 23rd Edition, 3113B ,2017	*BLQ(**LOQ-0.002)	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

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Name Samp Samp Prese	le Number : VTL/SW/0 & Address of the Party le Description ling Location le Collected By rvation d of sampling	2 : M/s ADANI POWER LIM Village- Raikheda, Block Chhattisgarh : SURFACE WATER : Chicholi Pond Water : VTL Team : Refrigerated : IS 3025	1.0.2	Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: VTLW/2408 : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024- : 27/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	
S.No.	Test Param	eters	Test Method	Resul		Unit
1	Colour		IS : 3025 (P-4) : 2021	"BLQ("LO		CU
2	Odour		IS : 3025 (P-5) : 2018	Agreeat		-
3	Cyanide (as CN)	APH	A 23rd Edition, 4500D, 2017	*BLQ(**LOG	2-5.0)	mg/l
4	Aluminium (as Al)	IS : 3	025 : (P-55) 2003, RA 2019		25-07 M	
5	Oil & Grease		025 (P-39) 1991, RA 2019	*BLQ(**LOO	and the second sec	mg/l
Anionic Detergents (MBAS)			HA 23rd ed., 2017, 5530C	"BLQ("LOO		mg/l mg/l

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Nar Sar Sar Sar	mple Number : VTL/SW/ me & Address of the Party mple Description mpling Location nple Collected By servation thod of sampling	: M/s ADANI PO		Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: 7.8 F-01 : NIL : 07/10/202	24-07/10/2024 24
S.N	lo. Test Param	neters	Test Method	Resu	Its	Unit
1	pH value		IS: 3025 (P-11): 2022	7.11	Ki i s	-
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 20	17 4.8		NTU
3	Total Dissolved Solids (T	DS)	IS : 3025 (P-16) : 1984, RA 20	17 425.	0	mg/l
4	Chloride (as CI)		IS: 3025 (P-32) : 1988, RA 201	9 45.2		mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec. RA 2	022 19.3	2	mg/l
6	Total Alkalinity (as CaCC		IS: 3025 (P- 23) : 1985, RA 201	19 116.0)	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 201	9 28.0	28.0	
9	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 201	19 9.75	9.75	
10	Fluoride (as F)	First Cond Edition, 40000, 2017		7 0.39	0.39	
11	Phenolic compounds			*BLQ(**LOQ-0.001)		mg/l mg/l
12	Dissolved oxygen (DO)		IS : 3025 (P -38) : 1989, RA 20	19 6.4		mg/l
13	Biochemical Oxygen Den days at 27*C)	nand (BOD) (3	IS: 3025 (P-44) : 1993, RA : 201	8.0		mg/l
14	Chemical Oxygen Deman	d (COD)	IS: 3025 (P-58) : 2006 RA 20	17 40.0		mg/l
15	Iron (as Fe)		APHA 23rd Edition,3111B, 201	7 *BLQ(**LOO	2-0.1)	mg/l
16	Zinc (as Zn)	1	APHA 23rd Edition, 3030D,3113 2017	the second se	0.0120	mg/l
17	Copper (as Cu)		APHA 23rd edition, 3111B, 201	7 *BLQ(**LOQ	-0.02)	mg/l
18	Manganese (as Mn)		APHA 23rd Edition, 3030D,3113 2017	The R. P. LEWIS CO., MICH. MICH. & MICH.		mg/l
19	Lead (as Pb)		APHA 23rd Edition, 3030D,3113i 2017	B, BLQ(**LOQ-	0.005)	mg/l
20	Arsenic (as As)		APHA 23rd Edition, 3030D,31140 2017	C, BLQ("LOQ-	0.005)	mg/I
21	Boron (as B)		APHA 23rd Edition, 4500D, 2017	BLQ("LOO	-5.0)	mg/l







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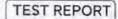
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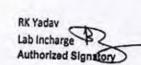
Samp	e number : VTL/SW/03		R No. : TC1122724 port No. : VTL/W/240	
S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017		mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.002)	mg/l
	Mercury (as Hg)		*BLQ(**LOQ-0.005)	mg/l
	mercury (as ny)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

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Name Samp Samp Prese	Die Number : VTL/SW/C e & Address of the Party Die Description Ding Location Die Collected By ervation Die Sampling	: M/s ADANI PO	ida, Block- Tilda Raipur 493225 TER	Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity	: VTL/W/240 : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024 : 27/09/2024 : 25/09/2024 : Grab : 2 Ltr	-07/10/2024
S.No.	Test Param	0.0000000	Test Method	Coordinates	:NA	
1	Colour		IS: 3025 (P-4): 2021			Unit
2	Odour		IS : 3025 (P-5) : 2018	*BLQ(**LO		CU
3	Cyanide (as CN)			Agreeat	111	-
4	Aluminium (as Al)		APHA 23rd Edition, 4500D, 2017		Q-5.0)	mg/l
-			IS : 3025 : (P-55) 2003, RA 2019	"BLQ(""LOO	2-0.03)	mg/l
5	Oil & Grease		IS: 3025 (P-39) 1991, RA 2019	"BLQ(""LOO	IBI ONIII OO 1 BI	
-	Anionic Detergents (MBAS)					mg/l

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	KANI			ULR No.	: TC11227	24000002099F
Na Sai Sai Pre Me	e the unimaginable" mple Number : VTL/SW/0 me & Address of the Party mple Description mpling Location mple Collected By eservation thod of sampling	: Ws ADANI Pr Village- Raikh Chhattisgarh : SURFACE W : Gaitara Pond : VTL Team : Refrigerated : IS 3025		Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: VTLW/24 : 7.8 F-01 : NIL : 07/10/202	409270014/A 44 4-07/10/2024 4
S.N		eters	Test Method	Resu	Its	Unit
1	pH value		IS: 3025 (P-11): 2022	7.27		
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 20			NTU
3	Total Dissolved Solids (TI	DS)	IS : 3025 (P-16) : 1984, RA 201	17 421.0	0	mg/l
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 201	9 55.6	0	mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec.RA 2	022 18.37	1	mg/l
6	Total Alkalinity (as CaCO	31 ⁻¹ F 1	IS: 3025 (P- 23) : 1986, RA 201	19 153.0)	mg/l
7	Total Hardness (CaCO3)		IS: 3025 (P- 21) : 2009, RA 201	9 132.0)	mg/l
8	Calcium (as Ca)		IS : 3025 (P-40) : 1991 RA 201			mg/l
9	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 201			mg/l
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 201			mg/l
11	Phenolic compounds		APHA 23rd Edition, 5530C, 201			
12	Dissolved oxygen (DO)		IS : 3025 (P -38) : 1989, RA 20		0.0017	mg/l
13	Biochemical Oxygen Dem days at 27*C)		IS: 3025 (P-44) : 1993, RA : 201			mg/l mg/l
14	Chemical Oxygen Demand	(COD)	IS : 3025 (P- 58) : 2006 RA 201	17 32.0		mg/l
15	Iron (as Fe)		APHA 23rd Edition,3111B, 2017		2-0.1)	mg/l
16	Zinc (as Zn)		APHA 23rd Edition, 3030D,3113 2017	the second se		mg/l
17	Copper (as Cu)	10.3	APHA 23rd edition, 3111B, 2017	BLQ("LOQ	-0.02)	mg/l
18	Manganese (as Mn)		APHA 23rd Edition, 3030D,31138 2017			mg/l
19	Lead (as Pb)		APHA 23rd Edition, 3030D,3113E 2017	3, *BLQ(**LOQ-	0.005)	mg/l
20	Arsenic (as As)		APHA 23rd Edition, 3030D,31140 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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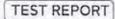
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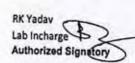
Sampl	e Number : VTL/SW/04	1	R No. : TC1122724 port No. : VTL/W/240	
S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	mg/l
24	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

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Sample Number : VTL/SW/0 Name & Address of the Party Sample Description Sampling Location Sample Collected By Preservation Method of sampling		: M/s ADANI POV	VER LIMITED a, Block- Tilda Raipur 493225	Report No. Format No Party Reference No Report Date Period of Analysis	: VTLW/240 : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024	
		: SURFACE WATER : : Gaitara Pond Water : : VTL Team : : Refrigerated :		Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: 27/09/2024 : 25/09/2024 : Grab : 2 Ltr	
S.No.	Test Param	eters	Test Method	Resul	:NA	Unit
1	Colour		IS: 3025 (P-4): 2021	*BLQ(**LO		CU
2	Odour		IS: 3025 (P-5): 2018	Agreeal	1. A.M	cu
3	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017			mg/l
4	Aluminium (as Al)		IS: 3025: (P-55) 2003, RA 2015			-
5	Oil & Grease		IS : 3025 (P-39) 1991, RA 2019			mg/l mg/l
6	Anionic Detergents (MBAS)		APHA 23rd ed., 2017, 5530C		*BLQ(**LOQ 0.02) m	

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TEST REPORT





IB	RANT			10.5 11		
	e the unimaginable" mple Number : VTL/SW/	05		ULR No.		4000002100F
Name & Address of the Party : M/s ADANI PO		OWERLIMITED	Report No.	: VTL/W/24	09270015/A	
		neda, Block- Tilda Raipur 493225	Format No	: 7.8 F-01		
		Chhattisgarh		Party Reference No		
				Report Date	: 07/10/2024	
Sa	mple Description	: SURFACE W	ATER	Period of Analysis Receipt Date	: 27/09/2024	a service the sec
Sa	mpling Location	: Bangoli Dam		Sampling Date	: 27/09/2024	
	mple Collected By	: VTL Team		Sampling Type	: 25/09/2024 : Grab	
	servation	: Refrigerated		Sample Quantity	: 2 Ltr	
_	thod of sampling	: IS 3025		Coordinates	:NA	
S.N	rest i diali	eters	Test Method	Resul		Unit
1	pH value		IS: 3025 (P-11): 2022	7.15		
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 20	17 7.9		NTU
3	Total Dissolved Solids (TI	DS)	IS : 3025 (P-16) : 1984, RA 201	7 398.0		mg/l
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 201	9 57.46		mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec.RA 20	022 19.34	-	mg/l
5	Total Alkalinity (as CaCO		IS: 3025 (P- 23) : 1986, RA 201			mg/l
1	Total Hardness (CaCO3)	CO3) IS: 3025 (P- 21) : 2009, RA 2019 116.0		1	mg/l	
3	Calcium (as Ca)	_	IS : 3025 (P-40) : 1991 RA 2019			mg/l
)	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 201			mg/l
0	Fluoride (as F)		APHA 23rd Edition, 4500D, 2017			
1	Phenolic compounds		APHA 23rd Edition, 5530C, 2017		0.001)	mg/l
2	Dissolved oxygen (DO)	100	IS : 3025 (P -38) : 1989, RA 201		0.001/	mg/l
3	Biochemical Oxygen Dem	and (BOD) (3	IS: 3025 (P-44) : 1993, RA : 2011			mg/l
_	days at 27°C)			0,7		mg/l
4	Chemical Oxygen Demand	(COD)	IS: 3025 (P- 58) : 2006 RA 201	7 40.12		mg/l
5	Iron (as Fe)	1.1	APHA 23rd Edition,3111B, 2017		-0.1)	mg/l
6	Zinc (as Zn)		APHA 23rd Edition, 3030D,3113E			mg/l
-			2017			gri
7	Copper (as Cu)		APHA 23rd edition, 3111B, 2017	"BLQ("LOQ-	0.02)	mg/l
8	Manganese (as Mn)		APHA 23rd Edition, 3030D,3113B 2017	*BLQ(**LOQ-	0.05)	mg/l
	Lead (as Pb)		APHA 23rd Edition, 3030D,3113B 2017	"BLQ(""LOQ-0	.005)	тgЛ
R.	Arsenic (as As)		APHA 23rd Edition, 3030D,3114C	1010/01 00.0	000	
			2017	*BLQ(**LOQ-0	.005)	mg/l
	Boron (as B)	1	APHA 23rd Edition, 4500D, 2017	*8LQ(**LOQ-	5.0)	mg/i







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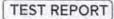
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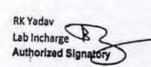
Samp	e unimogiaable" le Number : VTL/SW/05		R No. : TC1122724 port No. : VTL/W/240	
S.No.	Test Parameters	Test Method	Results	Unit
22	Chromium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOQ-0.02)	mg/l
23	Cadmium (as Cd)	APHA 23rd Edition,3113B ,2017	*BLQ(**LOQ-0.002)	
24	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
25	Mercury (as Hg)	APHA 23rd Edition,3114C, 2017	1	mg/l
1000		AFTA 2310 Edition,3114C, 2017	*BLQ(**LOQ- 0.001)	mg/l

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Name Samp Samp Prese	Address of the Party A Address of the Party Ple Description Ming Location Ne Collected By rivation od of sampling	: M/s ADANI PO	eda, Block- Tilda Raipur 493225	Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: VTL/W/240 : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024 : 27/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	-07/10/2024
S.No.	Test Param	eters	Test Method	Result	1.0016	Unit
1	Colour		IS: 3025 (P-4): 2021			CU
2	Odour		IS: 3025 (P-5): 2018	Agreeat	*BLQ(**LOQ-5.0)	
3	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017	and the second s	S	-
4	Aluminium (as Al)		IS : 3025 : (P-55) 2003, RA 2019	"BLQ(""LOO		mg/l
5	Oil & Grease					mg/l
6			IS : 3025 (P-39) 1991, RA 2019	"BLQ(""LOO	2-4.0)	mg/l
0	Anionic Detergents (MBA)	5)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOO	0.02)	mg/l

End of Report







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TEST REPORT





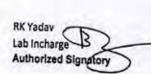
Sample Number : VTLW/0	1		ULR No.		4000002101F
Name & Address of the Party	: M/s ADANI PO	WER LIMITED da, Block- Tilda Raipur 493225	Report No. Format No Party Reference No Report Date	: VTL/W/240 : 7.8 F-01 : NIL : 07/10/2024	
Sample Description Sampling Location Sample Collected By Preservation Method of sampling	: Water Sample : Ash Recovery V : VTL Team : Refrigerated : IS 3025	Vater Pump Area	Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: 27/09/2024 : 27/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	
S.No. Test Param	neters	Test Method	Result	ts	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

End of Report











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Samj	ple Number : VTL/W/01			Denest Ma		
Nam	e & Address of the Party	: Ws ADANI POWE Village- Raikheda, I Chhattisgarh	R LIMITED Block- Tilda Raipur 493225	Report No. Format No Party Reference No	1005	
Samp Samp Prese Meth	ole Description oling Location ole Collected By ervation od of sampling	: Water Sample : Ash Recovery Wate : VTL Team : Refrigerated : IS 3025	er Pump Area	Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: 07/10/2024 : 27/09/2024 : 27/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	07/10/2024
S.No	Test Parame	eters	Test Method	Resu	Ite	Units
1	Biochemical Oxygen Dima at 27*)	ind (BOD 3 Days	IS :3025, (P-44),2023	6.31	10	mg/l
2	Chemical Oxygen Demand	(COD)	IS :3025, (P-58) 2023	45.20		
3	Oil & Grease		IS :3025(P-39) 2021	*BLQ**(LO		mg/l
	the state of the state of the state			(mg/l

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TEST REPORT



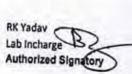


Na Sa Sa Pri	or the unimoginable" VTL/W/01 ame & Address of the Party ample Description ampling Location ample Collected By eservation athod of sampling	: M/s ADANI P		ULR No. Report No. Format No Party Reference N Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: VTLW/2 : 7.8 F-01 lo : NIL : 07/10/20	24 24-07/10/2024 24
S.M	No. Test Param	eters	Test Method	Res	1.4.	1
1	pH value		IS: 3025 (P-11): 2022	7.5	1.1.1	Units
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 20		1	-
3	Total Dissolved Solids (TE	DS)	IS : 3025 (P-16) : 1984, RA 201		1	NTU
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 201		1.	mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec. RA 20			mg/l
6	Total Alkalinity (as CaCO		IS: 3025 (P- 23) : 1986, RA 201			mg/l
7	Total Hardness (CaCO3)	1	IS: 3025 (P- 21) : 2009, RA 201			mg/l
8	Calcium (as Ca)	-	IS : 3025 (P-40) : 1991 RA 2019			mg/l
9	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 201		1/	mg/l
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 2017			mg/l
11	Phenolic compounds		APHA 23rd Edition, 5530C, 2017			mg/l
12	Dissolved oxygen (DO)		IS : 3025 (P -38) : 1989, RA 201			mg/l
13	Biochemical Oxygen Dema days at 27*C)	and (BOD) (3	IS: 3025 (P-44) : 1993, RA : 2019	1.00		mg/l mg/l
4	Chemical Oxygen Demand	(COD)	IS : 3025 (P- 58) : 2006 RA 201	7 38.0		
5	Iron (as Fe)		APHA 23rd Edition,3111B, 2017			mg/l
6	Zinc (as Zn)		APHA 23rd Edition, 3030D,31138 2017			mg/l mg/l
7	Copper (as Cu)	-	APHA 23rd edition, 3111B, 2017	"BLQ(""LOO	0.0.02)	
8	Manganese (as Mn)		APHA 23rd Edition, 3030D,3113B 2017			mg/l mg/l
9	Lead (as Pb)		APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ	-0.005)	mg/l
)	Arsenic (as As)		APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOO	0.005)	mg/l
1	Boron (as B)		APHA 23rd Edition, 4500D, 2017	"BLQ("LOO	5.0)	mg/l











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TEST REPORT





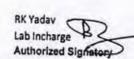
ginable" iber: VTLW/01		TOTILETE	and the second second
Test Parameters	Test Method	Results	Units
nium (as Cr)	APHA 23rd Edition,3113B, 2017	*BLQ(**LOO-0.02)	mg/l
ium (as Cd)	APHA 23rd Edition,3113B ,2017		
ium (as Se)			mg/l
ry (as Hg)	The second s		mg/i mg/i
	Test Parameters nium (as Cr) ium (as Cd) ium (as Se)	UL UL aber : VTL/W/01 Re Test Parameters Test Method nium (as Cr) APHA 23rd Edition,3113B, 2017 ium (as Cd) APHA 23rd Edition,3113B, 2017 um (as Se) APHA 23rd Edition,3114C, 2017	ULR No. : TC112272/ Report No. : VTL1272/ VTLW/01 Test Parameters Test Method Results nium (as Cr) APHA 23rd Edition,3113B, 2017 *BLQ(**LOQ-0.02) ium (as Cd) APHA 23rd Edition,3113B, 2017 *BLQ(**LOQ-0.002) uum (es Se) APHA 23rd Edition,3114C, 2017 *BLQ(**LOQ-0.005)

End of Report











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TEST REPORT



Sample Number : VTLW/01 Name & Address of the Party Sample Description Sampling Location Sample Collected By Preservation Method of sampling		: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh : Water Sample : Raw Water Area Reservoir : VTL Team : Refrigerated : IS 3025		Report No. Format No Party Reference No Report Date	: VTL/W/2409270017/B : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024-07/10/2024 : 27/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	
				Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates		
S.No.	restratal	neters	Test Method	Result	(H)	
1	Colour		IS: 3025 (P-4): 2021			Units
2	Odour		IS: 3025 (P-5): 2018		*BLQ(**LOQ-5.0)	
3	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017		Agreeable	
4	Aluminium (as Al)				*BLQ(**LOQ-5.0)	
_	Oil & Grease		IS: 3025: (P-55) 2003, RA 2019	*BLQ(**LOQ	*BLQ(**LOQ-0.03) mg/	
-	Anionic Detergents (MBAS)		IS : 3025 (P-39) 1991, RA 2019	"BLQ("LOC	*BLQ(**LOQ-4.0) mg	
Autorito Detergents (MBAS)		APHA 23rd ed., 2017, 5530C	*BI 0/**1 00	*BLQ(**LOQ 0.02) mg/l		

End of Report

	checked by	ANTUR DU ANTUR	RK Yadav Lab Incharge Authorized Signatory	onditions PTO
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SC-40, 3rd Floor,	no Lab Pvt. L Narayan Vihar S, Ajm 2205356, 8005707098	S 014	41-2954638 @vibranttechnolab.com w.vibranttechnolab.com	



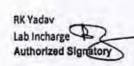


Sample Number : VTLW/01 Name & Address of the Party Sample Description Sampling Location Sample Collected By Preservation Method of sampling S.No. Test Parameters		: W/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur - Chhattisgarh : Water Sample : Piezometer Well No01 (Near Raw Wa : VTL Team : Refrigerated : IS 3025	Ri 193225 Pi Ri Pi ter Pump Si Si Si	LR No. eport No. ormat No arty Reference No eport Date eriod of Analysis eccipt Date ampling Date ampling Type ample Quantity oordinates	: TC1122724000002086F : VTL/W/2409270001/A : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024-07/10/2024 : 27/09/2024 : 25/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA		
S.No.	Test Parameters	s Test Method	Results	Units	IS:105 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	03) 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 CaCC	3) 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 SO4)	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 NO3)	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	0.02) mg/l	0.05	1.5	
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	"BLQ("LOQ-0	1.05) mg/l	0.1	0.3	











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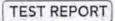
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	animaginable" Number: VTLW/01		ULR No Report I		: TC1122724000002086F : VTL/W/2409270001/A		
S.No.	Test Parameters	Test Method	Results	Units	IS:1050	00-2012	
					Acceptable Limit	Permissible Limit	
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation	
19	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	тgЛ	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		•	

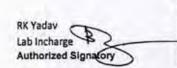
*BLQ-Below Limit Of Quantification, Limit of

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ence the	Number: VTL/W/01				Report N	No.	: VTL/W/24092	70001/B	
Name	ame & Address of the Party :		ADANI POWER LIMITED		Format	121	- 7.8 F-01		
		Villag	ge- Raikheda, Block- Tilda Raipur 4	93225	Party Re	ference No	: NIL		
		Chha	attisgarh		Report I	Date	: 07/10/2024		
					Period o	of Analysis	: 27/09/2024-07	/10/2024	
Sample	e Description	: Water Sample			Receipt	Date	: 27/09/2024		
Sampl	ing Location	: Piezometer Well No01 (Near Raw Water Pump			Samplin	g Date	: 25/09/2024		
		: VTL	: VTL Team			g Type	: Grab		
Preservation		: Refrigerated			Sample	Quantity	: 2 Ltr		
Method of sampling		: IS 3025			Coordin	ates	:NA		
S.No.	Test Parameters		Test Method	Rest	ults	Units	IS:105	00-2012	
							Acceptable Limit	Permissible Limit	
1	Colour		IS : 3025:(P-4)1983, :RA 2017	*BLQ(**L	OQ-5.0)	Hazen	5	15	
2	Odour		IS : 3025 (P-5) : RA 2018	Agree	able	-	Agreeable	Agreeable	
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agree	able	-	Agreeable	Agreeable	
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**L	.OQ-5.0)	mg/l	0.05	No Relaxation	
5	Mineral Oil		IS 3025 (P-39) 1989	*BLQ(**L0	OQ-0.05)	mg/l	0.5	No Relaxation	
6	Anionic Detergents (as N	IBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LO	OQ-0.05)	mg/l	0.2	1.0	
7	Barium as Ba		APHA 23rd Edition,3111B 2017	*BLQ(**L0	0Q-0.02)	mg/l	0.7	No relaxation	

End of Report







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BR	e unimaginable" Number : VTL/W/02				ULR No.		: TC112272400	
1000	& Address of the Party		DANI POWER LIMITED e- Raikheda, Block- Tilda Raipur 4	93225	Report N Format I		: VTL/W/240927 ; 7.8 F-01 : NIL	70002/A
		Chha	ttisgarh		Report D Period o	late f Analysis	: 07/10/2024 : 27/09/2024-07	/10/2024
Sampl Sampl	e Description ing Location e Collected By vation	: Piezo : VTL	r Sample ometer Well No02 (Near Mura Gal Team gerated	e)	Receipt Samplin Samplin Sample	g Date	: 27/09/2024 : 25/09/2024 : Grab : 2 Ltr	
Metho	d of sampling	: IS 30	25		Coordin	ates	:NA	
S.No.	Test Parameters	5	Test Method	Res	ults	Units	IS:1050	00-2012
							Acceptable Limit	Permissible Limit
1	pH (at 25*C)		IS : 3025 (P-11) : 2022	7.4	1	-	6.5 to 8.5	No Relaxation
2	Turbidity		IS : 3025: (P-10)1984, RA 2017	"BLQ("L	OQ-1.0)	NTU	1	5
3	Total Hardness (as CaCC	03)	IS: 3025 (P-21): 2009, RA 2019	235	.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	(3)	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	5.0	mg/l	500	2000
9	Sulphate (as SO4)	-	IS: 3025 (P-24): 1986, RA 2022	16	.0	mg/l	200	400
10	Fluoride (as F)		APHA 23rd Edition .4500FD :2017	0.5	52	mg/l	1.0	1.5
11	Nitrate (as NO3)		IS: 3025 (P-34): 1988	13.	24	mg/l	45.0	No Relaxation
12	Iron (as Fe)		APHA 23rd Edition , - 3111B,2017	0.2	25	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	1	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LC	DQ-0.03)	mg/l	0.03	0.2
14	Boron (as B)		APHA 23rd Edition, 4500B,2017	*BLQ(**L	OQ-0.2)	mg/l	0.5	1.0
15	Zinc (as Zn)		APHA 23rd Edition,3030D, 3113 B , 2017	0.3	32	mg/l	5.0	15.0
16	Copper (as Cu)		APHA 23rd Edition 3111B 2017	"BLQ(""L	OQ-0.02)	mg/l	0.05	1.5
17	Manganese (as Mn)		APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**L	0Q-0.05)	mg/l	0.1	0.3











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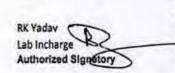
	e unimaginable" e Number : VTLW/02		ULR No Report I		: TC1122724000002087F : VTL/W/2409270002/A		
S.No.	Test Parameters	Test Method	Results	Units	IS:105	00-2012	
					Acceptable Limit	Permissible Limit	
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation	
19	Arsenic (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	•	•	

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TEST REPORT



Sample Number : VTL/W/02 Name & Address of the Party Sample Description Sample Description Sample Collected By Preservation Method of sampling S.No. Test Parameters		: W/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 49 Chhattisgarh : Water Sample : Piezometer Well No02 (Near Mura Gate : VTL Team : Refrigerated : IS 3025	93225 Pa Ri Pi Ri Ri Ri Ri Si Si Si	Report No. Format No 25 Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates		70002/B 1/10/2024
S.No.	Test Parameters	s Test Method	Results	Units		00-2012
					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 M	IBAS) 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

End of Report







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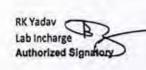


Sample Number : VTL/W/03 Name & Address of the Party Sample Description Sample Description Sample Collected By Preservation Method of sampling S.No. Test Parameter		ty : M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh : Water Sample : Piezometer Well No03 (Near Ash Recovery Water)			nce No alysis ate pe ntity	: TC1122724000002088F : VTL/W/2409270003/A : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024-07/10/2024 : 27/09/2024 : 25/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA		
S.No	. Test Parameters	a Test Method	Result	ts I	Jnits	Acceptable	Permissible	
		IS : 3025 (P-11) : 2022	7.45		-	Limit 6.5 to 8.5	Limit No Relaxation	
1	pH (at 25°C)				NTU	1	5	
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LO				600	
3	Total Hardness (as CaCO		201.0		mg/l	200		
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	62.0		mg/l	75	200	
5	Total Alkalinity (as CaCO		208.0	-	mg/l	200	600	
6	Chloride (as Ci)	IS: 3025 (P-32): 1988, RA 2019	66.7	- 1	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	6 I I I	mg/l	500	2000	
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	22.14	k - L	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	11.34		mg/i	45.0	No Relaxation	
12	Iron (as Fe)	APHA 23rd Edition , 31118,2017	0.24		mg/l	1.0	No Relaxation	
13	Atuminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOC	2-0.03)	mg/l	0.03	0.2	
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	"BLQ(""LO	Q-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(**LO	2-0.02)	mg/l	0.05	1.5	
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	"BLQ(""LO	Q-0.05)	mg/l	0.1	0.3	











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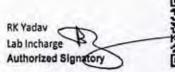
ence the	Number: VTLW/03		ULR No Report		: TC1122724000002088F : VTL/W/2409270003/A		
S.No.	Test Parameters	Test Method	Results	Units	IS:1050	00-2012	
					Acceptable Limit	Permissible Limit	
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation	
19	Arsenic (as 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		•	

End of Report











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sample	"unimaginable" VTL/W/03				Benert	da.	NTI ANIZADOS	1000010	
	& Address of the Party	: Mie 4	ADANI POWER LIMITED		Report I		: VTL/W/24092	10003/8	
			e- Raikheda, Block- Tilda Raipur 4	93225	Format Party Re	No ference No	: 7.8 F-01 : NIL		
			ittisgarh	OVELO	Report		: NIL : 07/10/2024		
						of Analysis	: 27/09/2024-07	100001	
Sampl	e Description	: Wate	er Sample		Receipt		: 27/09/2024-07	/10/2024	
	ing Location		ometer Well No03 (Near Ash Rec	(ater)	Samplin		: 25/09/2024		
	e Collected By		VTL Team Refrigerated			g Type	: 25/09/2024 : Grab : 2 Ltr		
	vation					Quantity			
Metho	d of sampling	: 15 30			Coordin	ates	:NA		
S.No.	Test Parameters	F.	Test Method	Resul	Its	Units	IS:105	00-2012	
							Acceptable Limit	Permissible Limit	
1	Colour	-	IS : 3025:(P-4)1983, :RA 2017	"BLQ("LO	Q-5.0)	Hazen	5	15	
2	Odour		IS : 3025 (P-5) : RA 2018	Agreea	ble	-	Agreeable	Agreeable	
3	Taste	-	IS :3025 (P-8): 1984 RA 2017	Agreea	ble	-	Agreeable	Agreeable	
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**LO	Q-5.0)	mg/l	0.05	No Relaxation	
5	Mineral Oil		IS 3025 (P-39) 1989	*BLQ(**LO	Q-0.05)	mg/l	0.5	No Relaxation	
6	Anionic Detergents (as M	IBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LO	Q-0.05)	mg/l	0.2	1.0	
7	Barium as Ba		APHA 23rd Edition,3111B 2017	*BLQ(**LO	Q-0.02)	mg/l	0.7	No relaxation	

End of Report







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VIBRANT *teperinge the unimogenable* Sample Number :



Sample Sample Sample Sample Sample Preser	e Description : ing Location : e Collected By : vation :	M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 4 Chhattisgarh Water Sample Piezometer Well No04 (Near Wagon T VTL Team Refrigerated IS 3025	Report Dat Period of A Receipt Da Tippler Area Sampling T Sampling T Sample Qu Coordinate		Io. : VTL/W/240927 No : 7.8 F-01 ference No : NIL Date : 07/10/2024 f Analysis : 27/09/2024-07/ Date : 27/09/2024 g Date : 25/09/2024 g Type : Grab Quantity : 2 Ltr		70004/A
S.No.	Test Parameters	Test Method	Resu	lts	Units	IS:105	00-2012
						Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.42	1	-	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LC	Q-1.0)	NTU	1	5
3	Total Hardness (as CaCO3	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 CaCO3)	IS: 3025 (P-23): 1986, RA 2019	198.	0	mg/l	200	600
8	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	66.8	5	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	15.1	6	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	586.	0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	25.6	1	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	18.6	3	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(**LO	Q-0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	"BLQ(""LC	0Q-0.2)	mg/l	0.5	1.0



15

16

17

Zinc (as Zn)

Copper (as Cu)

Manganese (as Mn)

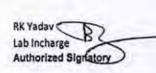




0.33

*BLQ(**LOQ-0.02)

*BLQ(**LOQ-0.05)



mg/l

mg/l

mg/l



15.0

1.5

0.3

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APHA 23rd Edition, 3030D,

3113 B , 2017 APHA 23rd Edition 3111B

2017

APHA 23rd Edition, 3030D,

3111 B, 2017

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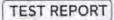
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	ANT		ULR No Report		: TC112272400 ; VTL/W/24092	
S.No.	Test Parameters	Test Method	Results	Units	IS:1050	00-2012
		1			Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
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	Shali not be detectable in any 100 mi 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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Sampl	e Number : VTL/W/04				Report I	No.	. VTLW/24092	70004/B
	& Address of the Party	: M/s #	ADANI POWER LIMITED		Format	(E) .	· 7.8 F-01	and the second
		Villag	ge- Raikheda, Block- Tilda Raipur 4	93225		ference No	: NIL	
		Chha	attisgarh		Report		: 07/10/2024	
						of Analysis	: 27/09/2024-07	/10/2024
Sampl	e Description	: Wate	er Sample		Receipt		: 27/09/2024	11012024
Sampl	ing Location	: Piezo	ometer Well No04 (Near Wagon 1	ippler Area	Samplin		: 25/09/2024	
Sampl	e Collected By	: VTL			Samplin	•	: Grab	
Prese	vation	: Refri	gerated		Sample	Quantity	:2 Ltr	
Metho	d of sampling	: IS 30			Coordin	ates	:NA	
S.No.	Test Parameters		Test Method	Resu	ilts	Units	IS:105	00-2012
							Acceptable Limit	Permissible Limit
1 *	Colour		IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LC	DQ-5.0)	Hazen	5	15
2	Odour		IS : 3025 (P-5) : RA 2018	Agrees	able	-	Agreeable	Agreeable
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agreea	able	-	Agreeable	Agreeable
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**LC	DQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil	10	IS 3025 (P-39) 1989	*BLQ(**LO	Q-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as M	BAS)	APHA 23rd Edilion , 5540C 2017	*BLQ(**LO	Q-0.05)	mg/l	0.2	1.0
7	Barium as Ba		APHA 23rd Edition,3111B 2017	*BLQ(**LO	Q-0.02)	mg/l	0.7	No relaxation

End of Report







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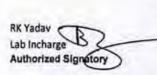


	e Number : VTLW/05		ULR No.		: TC1122724000002090F			
	& Address of the Party	: M/s ADANI POWER LIMITED		Report N		: VTL/W/2409270005/A : 7.8 F-01		
			Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh		ference No	• (*/**/*/) (***		
		Chhattisgarh			Date			
				Period o	f Analysis	: 27/09/2024-07	/10/2024	
	e Description	: Water Sample		Receipt	Date	: 27/09/2024		
1000	ling Location	: Piezometer Well No05 (Near Old Pro	oject Doosan)	Samplin	-	: 25/09/2024		
0.00	le Collected By rvation	: VTL Team : Refrigerated		Samplin	g Type Quantity	Grab		
	d of sampling	: IS 3025		Coordin		: 2 Ltr : NA		
S.No.			Resu	2724741	Units	Photo	00-2012	
			1 1004				tontes.	
						Acceptable Limit	Permissible Limit	
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.30	5	-	6.5 to 8.5	No Relaxation	
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LC	DQ-1.0)	NTU	1	5	
3	Total Hardness (as CaC	O3) 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	0	mg/l	75	200	
5	Total Alkalinity (as CaCO	03) IS: 3025 (P-23): 1986, RA 2019	114.	0	mg/i	200	600	
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	45.8	3	mg/l	250	1000	
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	6.38	в	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	3	mg/l	200	400	
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.13	2	mg/l	1.0	1.5	
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	8.64	4	mg/l	45.0	No Relaxation	
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.15	5	mg/l	1.0	No Relaxation	
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	"BLQ("LO	Q-0.03)	mg/l	0.03	0.2	
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LC	Q-0.2)	mg/i	0.5	1.0	
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.25	5	mg/l	5.0	15.0	
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LO	Q-0.02)	mg/l	0.05	1.5	
17	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LO	Q-0.05)	mg/l	0.1	0.3	











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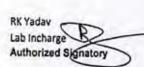
Sampl	e Number: VTL/W/05		ULR No Report		: TC1122724000002090F : VTLW/2409270005/A		
S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012		
					Acceptable Limit	Permissible Limit	
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation	
19	Arsenic (as As)	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	•		

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Sampl	e Number: VTL/W/05				Report	No	: VTL/W/24092	20005/0	
Name			ADANI POWER LIMITED		Format		: 7.8 F-01	1000318	
			ge- Raikheda, Block- Tilda Raipur 4	93225		eference No	: NIL		
		Chha	attisgarh		Report	Concernate as a	: 07/10/2024		
						of Analysis	: 27/09/2024-07	/10/2024	
Sampl	e Description	: Wat	er Sample		Receipt Date		: 27/09/2024	TURUET	
Sampl	ing Location	: Piez	Piezometer Well No05 (Near Old Project Doosan)			g Date	: 25/09/2024		
Sample Collected By : Preservation :		: VTL	VTL Team		Samplin	g Type	: Grab		
		: Refri	: Refrigerated			Quantity	: 2 Ltr		
Metho	d of sampling	: IS 30	025		Coordin	ates	:NA		
S.No.	Test Parameter	5	Test Method	Resu	Its	Units	IS:105	00-2012	
							Acceptable Limit	Permissible Limit	
1	Colour		IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LC	Q-5.0)	Hazen	5	15	
2	Odour		IS : 3025 (P-5) : RA 2018	Agreea	ble	-	Agreeable	Agreeable	
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agreea	ble	-	Agreeable	Agreeable	
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**LC	Q-5.0)	mg/l	0.05	No Relaxation	
5	Mineral Oil		IS 3025 (P-39) 1989	"BLQ("LO	Q-0.05)	mg/l	0.5	No Relaxation	
6	Anionic Detergents (as M	IBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LO	Q-0.05)	mg/l	0.2	1.0	
7	Barium as Ba		APHA 23rd Edition,3111B 2017	"BLQ(""LO	Q-0.02)	mg/l	0.7	No relaxation	

""End of Report""







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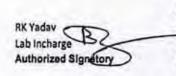
	wimoginable" VTL/W/06			ULR No		: TC112272400			
	& Address of the Party		Report	22	: VTL/W/2409270006/A				
	a riadices of and rang	: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipu	1 493225	Format Party P	No eference No	: 7.8 F-01			
		Chhattisgarh		Report					
					of Analysis	: 07/10/2024			
Samp	le Description	: Water Sample		Receipt		: 27/09/2024-07	: 27/09/2024-07/10/2024		
Samp	ling Location	: Piezometer Well No06 (Near OWC)	Area (Brick	Samplin	g Date	: 25/09/2024			
	le Collected By	: VTL Team		Samplin	C	: Grab			
	rvation d of sampling	: Refrigerated			Quantity	: 2 Ltr			
		: 15 3025	1	Coordin	1	:NA			
S.No.	Test Parameters	s Test Method	Rest	ults	Units	IS:1050	00-2012		
						Acceptable Limit	Permissible Limit		
1	pH (at 25*C)	IS : 3025 (P-11) : 2022	7.3	8	-	6.5 to 8.5	No Relaxation		
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	"BLQ("L	OQ-1.0)	NTU	1	5		
3	Total Hardness (as CaCC	03) IS: 3025 (P-21): 2009, RA 2019	210	0.0	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	3) 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.	26.14		250	1000		
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	15.0	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 SO4)	IS: 3025 (P-24): 1986, RA 2022	16.	38	mg/l	200	400		
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.4	1	mg/l	1.0	1.5		
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	14.3	27	mg/l	45.0	No Relaxation		
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	- 0.2	0	mg/l	1.0	No Relaxation		
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	"BLQ("LC	Q-0.03)	mg/l	0.03	0.2		
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**L	0Q-0.2)	mg/l	0.5	1.0		
15	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.3	1	mg/l	5.0	15.0		
16	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LC	00-0.02)	mg/t	0.05	1.5		
17	Manganese (as Mn)	APHA 23rd Edition, 3030D,	"BLQ(""LC	Q-0.05)	mg/l	0.1	0.3		







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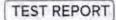
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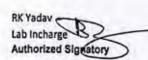
	KANI * the unimoginable" VTL/W/06		ULR No Report		: TC1122724000002091F : VTL/W/2409270006/A		
S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012		
					Acceptable Limit	Permissible Limit	
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation	
19	Arsenic (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			

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Name & Address of the Party Sample Description Sampling Location Sample Collected By Preservation Method of sampling		: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh : Water Sample : Piezometer Well No06 (Near OWC Area (Brick : VTL Team : Refrigerated : IS 3025		Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates		: VTL/W/2409270006/B : 7.8 F-01 > : NIL : 07/10/2024 : 27/09/2024-07/10/2024 : 27/09/2024 : 25/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA		
S.No.	Test Parameters	1	Test Method	Res		Units		00-2012
							Acceptable Limit	Permissible Limit
1	Colour		IS : 3025:(P-4)1983, :RA 2017	"BLQ(""L	OQ-5.0)	Hazen	5	15
2	Odour		IS : 3025 (P-5) : RA 2018	Agree	able	-	Agreeable	Agreeable
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agree	able		Agreeable	Agreeable
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**L	0Q-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil		IS 3025 (P-39) 1989	"BLQ(""LC	Q-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as Mi	BAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LC	Q-0.05)	mg/l	0.2	1.0
7	Barlum as Ba		APHA 23rd Edition,3111B 2017	*BLQ(**LC	Q-0.02)	mg/l	0.7	No relaxation

End of Report







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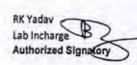


	e unimaginable" Number: VTL/W/07		1000	No.	: TC1122724000002092F		
	& Address of the Party	: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur	Form	ort No. nat No y Reference No	: VTLW/2409270007/A : 7.8 F-01 : NIL		
		Chhattisgarh	Rep	ort Date od of Analysis	: 07/10/2024 : 27/09/2024-01	7/10/2024	
Samp Samp Prese	le Description ling Location le Collected By rvation id of sampling	: Water Sample : Village - Mura Hand Pump Water : VTL Team : Refrigerated : IS 3025	Sam Sam Sam	eipt Date opling Date opling Type ople Quantity rdinates	: 27/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA		
S.No.	Test Parameter	Test Method	Results	Units	IS:105	00-2012	
					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 CaCO	03) 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 CaCO	3) 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/i	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,	*BLQ(**LOQ-0.05) mg/l	0.1	0.3	











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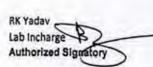
sample	ANI unimoginable" VTL/W/07		ULR No Report		: TC1122724000002092F : VTL/W/2409270007/A		
S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012		
					Acceptable Limit	Permissible Limit	
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation	
19	Arsenic (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	detectable in any 100 ml sample	-	
21	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shali 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		- •	

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TEST REPORT



1 Colour 2 Odour		: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur Chhattisgarh : Water Sample : Village - Mura Hand Pump Water : VTL Team : Refrigerated : IS 3025	493225 P: 493225 P: Ri Pi Ri Si Si Si Si	eport No. ormat No arty Reference No eport Date eriod of Analysis eccipt Date ampling Date ampling Type ample Quantity oordinates	: VTLW/2409270007/B : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024-07/10/2024 : 25/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	
S.No.	Test Parameter	s Test Method	Results	Units	IS:105	00-2012
					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	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 N	BAS) 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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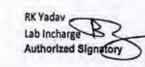


	unimaginable"		U	R No.	: TC112272400	00002093F		
	Number: VTL/W/08		R	eport No.	: VTL/W/2409270008/A			
Name	& Address of the Party	: M/s ADANI POWER LIMITED	Contract of the second second	ormat No	: 7.8 F-01			
		Village- Raikheda, Block- Tilda Raipur Chhattisgarh	493225 Pa	25 Party Reference No		: NIL		
		and a second sec	R	eport Date	: 07/10/2024			
Samel	e Description			eriod of Analysis	: 27/09/2024-07	7/10/2024		
	ing Location	: Water Sample : Village - Chicholi Tap Water		eceipt Date	: 27/09/2024			
	e Collected By	: VTL Team		Impling Date	: 25/09/2024 : Grab			
	vation	: Refrigerated		mple Quantity	: 2 Ltr			
Metho	d of sampling	: IS 3025	C	pordinates	:NA			
S.No.	Test Parameters	s Test Method	Results	Units	IS:105	00-2012		
					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 CaCO	03) 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 CaCO	3) IS: 3025 (P-23): 1986, RA 2019	189.0	mg/i	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 Relaxatio		
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-0.0	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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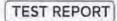
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sample	wimpginable" VTLW/08		ULR No Report		: TC1122724000002093F : VTL/W/2409270008/A	
S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	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	•	•

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Sample Description Sampling Location Sample Collected By Preservation		: W/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh : Water Sample : Village - Chicholi Tap Water : VTL Team : Refrigerated : IS 3025		193225	Report No. Format No 225 Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates		: 07/10/2024	
S.No. Test Parameters				Results		Units	IS:10500-2012	
							Acceptable Limit	Permissible Limit
1	Colour		IS : 3025:(P-4)1983, :RA 2017	*BLQ(**L	OQ-5.0)	Hazen	5	15
2	Odour		IS : 3025 (P-5) : RA 2018	Agree	able	-	Agreeable	Agreeable
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agree	able	-	Agreeable	Agreeable
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**L	OQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil		IS 3025 (P-39) 1989	"BLQ(""LO	Q-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as M	BAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**L0	DQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba		APHA 23rd Edition,3111B 2017	"BLQ(""LO	DQ-0.02)	mg/l	0.7	No relaxation

End of Report







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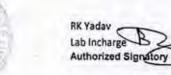
Name Sampl Sampl Preser Metho	e Collected By vation d of sampling	: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur A Chhattisgarh : Water Sample : Village - Raikheda Tap Water : VTL Team : Refrigerated : IS 3025	Repor Period Receij Samp Samp Samp	t No.	: TC112272400 : VTL/W/24092 : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024-0: : 27/09/2024 : 25/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	70009/A
S.No.	Test Parameters	Test Method	Results	Units	IS:105 Acceptable Limit	Permissible
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	3) 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 CaCO3	3) IS: 3025 (P-23): 1986, RA 2019	177.0	mg/i	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 SO4)	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 NO3)	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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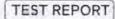
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sample	unimoginoble" VTL/W/09		ULR No Report		: TC112272400 : VTL/W/24092	
S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
			-	Acceptable Limit	Permissible Limit	
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/I	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		•

End of Report







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Samp	e Number : VTL/W/09				Report	No	: VTLW/24092	7000070
Name	& Address of the Party		ADANI POWER LIMITED		Format		: 7.8 F-01	10009/15
			ge- Raikheda, Block- Tilda Raipur	493225	Party R	eference No	: NIL	
		Chhi	attisgarh		Report	Date	: 07/10/2024	
					Period	of Analysis	: 27/09/2024-07	/10/2024
	le Description	: Wat	er Sample		Receipt	Date	: 27/09/2024	
0.00	ling Location	: Villa	ge - Raikheda Tap Water		Samplin	ng Date	: 25/09/2024	
	le Collected By	: VTL	Team		Samplin	ng Type	: Grab	
	rvation	: Refri	gerated		Sample	Quantity	: 2 Ltr	
Metho	d of sampling	: IS 30	025		Coordin	ates	:NA	
S.No.	Test Parameters	Parameters Test Method Results		ults	Units	IS:10500-2012		
							Acceptable Limit	Permissible Limit
1	Colour		IS : 3025:(P-4)1983, :RA 2017	*BLQ(**L	.OQ-5.0)	Hazen	5	15
2	Odour		IS : 3025 (P-5) : RA 2018	Agree	able	-	Agreeable	Agreeable
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agree	able	-	Agreeable	Agreeable
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**L	OQ-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil		IS 3025 (P-39) 1989	*BLQ(**L(Q-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as M	BAS)	APHA 23rd Edition , 5540C 2017	"BLQ(""LO	DQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba		APHA 23rd Edition,3111B	*BLQ(**L0	00-0.02)	mg/l	0.7	No relaxation

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2017







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TEST REPORT



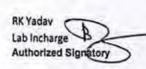


Sampl Name Sampl Sampl Sampl Preser Metho	e Description Ing Location e Collected By vation d of sampling	M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur - Chhattisgarh Water Sample Village - Gaitara Hand Pump Water VTL Team Refrigerated IS 3025	Repor Period Receij Samp Samp Samp	t No.	: TC112272400 : VTL/W/24092 : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024-01 : 27/09/2024-01 : 27/09/2024 : 25/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	70010/A
S.No.	Test Parameters	Test Method	Results	Units	IS:105 Acceptable Limit	00-2012 Permissible Limit
1	pH (at 25*C)	IS : 3025 (P-11) : 2022	7.25	-	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	195.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	55.0	mg/i	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	168.0	mg/l	200	600
6	Chloride (as CI)	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









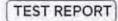


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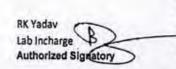
Sample	ANI unimoginable" VTLW/10		ULR No Report		: TC112272400 : VTL/W/24092	
S.No.	Test Parameters	Test Method	Results	Units	IS:105	00-2012
					Acceptable Limit	Permissible Limit
18	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
19	Arsenic (as As)	APHA 23rd 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		

End of Report











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Name Samp Samp Samp Prese	le Description ling Location le Collected By rvation d of sampling	: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur Chhattisgarh : Water Sample : Village - Gaitara Hand Pump Water : VTL Team : Refrigerated : IS 3025	493225 Form 493225 Party Repo Perio Rece Samj Samj Samj	ort No. hat No r Reference No ort Date od of Analysis ipt Date oling Date oling Type ole Quantity dinates	: VTL/W/24092 : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024-0 : 27/09/2024 : 25/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	
S.No. Test Parameter	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 ME	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

End of Report







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IDRANI		ULR No.	: TC112272400000130F
Sample Number : VTU/S0/01		Report No.	: VTL/S0/2409270001/A
	M/s ADANI POWER LIMITED	Format No	: 7.8 F-01
	Village- Raikheda, Block- Tilda Raipur 493225	Party Reference No	: NIL
Name & Address of the Party	Chhattisgarh	Report Date	: 07/10/2024
Name & Address of the Party	1	Period of Analysis	: 27/09/2024-07/10/2024
Sample Description	SOIL	Receipt Date	: 27/09/2024
Sampling Location	: Raikheda Village	Sampling Date	: 25/09/2024
Sample Collected By	: VTL Team	Sampling Type	: Composite
Parameter Required	: As per work order	Sample Quantity	: 2 Kg.
Method of sampling	: IS 2720	Packing Status	: Temporary Sealed
		Coordinates	:NA

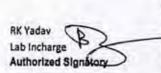
S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.82	
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.314	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.39	gm/c.c.
4	Chloride (as CI)	USDA:1954 Method 13 (Page-98), RA: 2010	95.76	mg/kg
5	Exchangeable Calcium (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/hec.
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

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4	Colour		UCDA:1064 Deaffirmed 2010	Dedel		
S.No.	Paramet	ers	Test Method	Resul	Its	Units
_			and the second s	Coordinates	:NA	_
Metho	d of sampling	: IS 2720		Packing Status	: Temporary Se	aled
Param	eter Required	: As per work order		Sample Quantity	: 2 Kg.	
Sampl	e Collected By	: VTL Team		Sampling Type	: Composite	
Sampl	ing Location	: Raikheda Village		Sampling Date	: 25/09/2024	
Sampl	e Description	: SOIL		Receipt Date	: 27/09/2024	
reamo	a Address of the Farty			Period of Analysis	: 27/09/2024-07	7/10/2024
Name	& Address of the Party	- Chinatusgam		Report Date	: 07/10/2024	
		Village- Raikheda, Chhattisgarh	Block- Tilda Raipur 493225	Party Reference No	: NIL	
		M/s ADANI POWE		Format No	: 7.8 F-01	
Sampl	Number: VTL/S0/01	Paul same		Report No.	: VTL/S0/24092	270001/B

Colour	USDA:1954-Reaffirmed, 2010	Reddish	
Water holding capacity	USDA:1954-Reaffirmed, 2010	35.16	%
Total Chromium (as Cr)	USEPA 3050 B:1996	3.15	mg/kg
Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	-
	Water holding capacity Total Chromium (as Cr)	Water holding capacity USDA:1954-Reaffirmed, 2010 Total Chromium (as Cr) USEPA 3050 B:1996	Water holding capacity USDA:1954-Reaffirmed, 2010 35.16 Total Chromium (as Cr) USEPA 3050 B:1996 3.15

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IBRANI		ULR No.	: TC112272400000131F
Sample Number : VTL/S0/02		Report No.	: VTL/S0/2409270002/A
	M/s ADANI POWER LIMITED	Format No	: 7.8 F-01
	Village- Raikheda, Block- Tilda Raipur 493225	Party Reference No	: NIL
Name & Address of the Party	Chhattisgarh	Report Date	: 07/10/2024
Hanie & Address of the Party	1	Period of Analysis	: 27/09/2024-07/10/2024
Sample Description	: SOIL	Receipt Date	: 27/09/2024
Sampling Location	: Gaitara Village	Sampling Date	: 25/09/2024
Sample Collected By	: VTL Team	Sampling Type	: Composite
Parameter Required	: As per work order	Sample Quantity	: 2 Kg.
Method of sampling	: IS 2720	Packing Status	: Temporary Sealed
		Coordinates	:NA

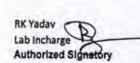
S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.85	
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.295	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.22	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	86.34	mg/kg
5	Exchangeable Calcium (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/hec.
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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1 Colour		LICDA-10Ed Dealfirmed 2010	Dedd		
S.No. Paramete	ers	Test Method	Resul	Its	Units
			Coordinates	:NA	
Method of sampling	: IS 2720		Packing Status	: Temporary Se	ealed
Parameter Required	: As per work order		Sample Quantity	: 2 Kg.	
Sample Collected By	: VTL Team		Sampling Type	: Composite	
Sampling Location	: Gaitara Village		Sampling Date	: 25/09/2024	
Sample Description	: SOIL		Receipt Date	: 27/09/2024	
nume a nations of the rang			Period of Analysis	: 27/09/2024-0	7/10/2024
Name & Address of the Party	Crimatusgam		Report Date	: 07/10/2024	
	Village- Raikheda, Chhattisgarh	Block- Tilda Raipur 493225	Party Reference No	: NIL	
	M/s ADANI POWE		Format No	: 7.8 F-01	
Sample Number : VTL/S0/02	and the second bullet		Report No.	: VTL/S0/2409	270002/B

Colour	USDA:1954-Reaffirmed, 2010	Reddish	
Water holding capacity	USDA:1954-Reaffirmed, 2010	38.46	%
Total Chromium (as Cr)	USEPA 3050 B:1996	4.15	mg/kg
Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	-
	Water holding capacity Total Chromium (as Cr)	Water holding capacity USDA:1954-Reaffirmed, 2010 Total Chromium (as Cr) USEPA 3050 B:1996	Water holding capacity USDA:1954-Reaffirmed, 2010 38.46 Total Chromium (as Cr) USEPA 3050 B:1996 4.15

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stream the union sleadsta"		
Sample Number : VTL/S0/	03	Report
	M/s ADANI POWER LIMITED	Format
	Village- Raikheda, Block- Tilda Raipur 493225	Party R
	Chhattisgarh	Report
Name & Address of the Party		Period
Sample Description	SOIL	Receipt
Sampling Location	: Mura Village	Sampli
Sample Collected By	: VTL Team	Sampli
Parameter Required	: As per work order	Sample
Method of sampling	: IS 2720	Packing
		Court.

: TC112272400000132F
: VTL/S0/2409270003/A
: 7.8 F-01
: NIL
: 07/10/2024
: 27/09/2024-07/10/2024
: 27/09/2024
: 25/09/2024
: Composite
: 2 Kg.
: Temporary Sealed
:NA

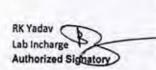
S.No.	Parameters	Test Method	Results	Units
1	pН	IS : 2720 (P- 26): 1987, RA: 2021	7.87	
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.276	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.39	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	95.67	mg/kg
5	Exchangeable Calcium (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/hec.
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

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1	Colour			USDA:1954-Reaffirmed, 2010	Redd	ish	
S.No.		Paramete	rs	Test Method	Resu	lts	Units
					Coordinates	:NA	
Metho	d of sampling		: IS 2720		Packing Status	: Temporary Se	ealed
Parameter Required		: As per work order		Sample Quantity	: 2 Kg.		
	le Collected B	•	: VTL Team		Sampling Type	: Composite	
100	ling Location		: Mura Village		Sampling Date	: 25/09/2024	
	le Description		: SOIL		Receipt Date	: 27/09/2024	
Name & Address of the Party		•		Period of Analysis	: 27/09/2024-07/10/2024		
		the Party			Report Date	: 07/10/2024	
			M/s ADANI POW Village- Raikhed Chhattisgarh	a, Block- Tilda Raipur 493225	Format No Party Reference No	: 7.8 F-01 : NIL	
Samp	le Number :	VTL/S0/03		and the second se	Report No.	: VTL/S0/2409	270003/B

Colour	USDA:1954-Reaffirmed, 2010	Reddish	
Water holding capacity	USDA:1954-Reaffirmed, 2010	28.64	%
Total Chromium (as Cr)	USEPA 3050 B:1996	5.16	mg/kg
Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	
	Water holding capacity Total Chromium (as Cr)	Water holding capacity USDA: 1954-Reaffirmed, 2010 Total Chromium (as Cr) USEPA 3050 B: 1996	Water holding capacity USDA:1954-Reaffirmed, 2010 28.64 Total Chromium (as Cr) USEPA 3050 B:1996 5.16

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IBKANI		ULR No.	: TC112272400000133F
Sample Number : VTL/S0/04	Contraction of the second s	Report No.	: VTL/S0/2409270004/A
	M/s ADANI POWER LIMITED	Format No	: 7.8 F-01
	Village- Raikheda, Block- Tilda Raipur 493225	Party Reference No	: NIL
Name & Address of the Party	Chhattisgarh	Report Date	: 07/10/2024
Hanne & Address of the Party		Period of Analysis	: 27/09/2024-07/10/2024
Sample Description	: SOIL	Receipt Date	: 27/09/2024
Sampling Location	: Chicholi Village	Sampling Date	: 25/09/2024
Sample Collected By	: VTL Team	Sampling Type	: Composite
Parameter Required	: As per work order	Sample Quantity	: 2 Kg.
Method of sampling	: IS 2720	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-05	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/hec.
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

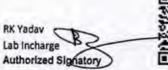
BLQ=Below Limit of Quantification,**LOQ=Limit of Quantification

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1	Colour			USDA:1954-Reaffirmed, 2010		Reddi		
S.No.	A	Paramete	rs	Test Method		Resu		Units
Param Metho	le Collected B leter Required d of sampling		: VTL Team : As per work ord : IS 2720	ler	Sampling Sample (Packing Coordina	Quantity Status	Composite 2 Kg. Temporary S NA	Sealed
	ing Location		: Chicholi Village		Sampling		: 25/09/2024	
Sampl	& Address of le Description		M/s ADANI PO' Village- Raikhe Chhattisgarh : : SOIL	WER LIMITED da, Block- Tilda Raipur 493225	Format M Party Re Report D	lo ference No Pate f Analysis	: 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024- : 27/09/2024	
Sampl	o Nambers	VTL/S0/04			Report N	0	: VTL/S0/240	9270004/B

pr.	Colour	USUA:1954-Reammed, 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

End of Report







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S.No. Pa	rameters	Test Method	Paquel	to l	Ilatio
			Coordinates	:NA	
Method of sampling	: 1S 2720		Packing Status	: Temporary :	Sealed
Parameter Required	: As per work order		Sample Quantity	: 2 Kg.	
Sample Collected By	: VTL Team		Sampling Type	: Composite	
Sampling Location	: Near Field Hostel G	Sarden	Sampling Date	: 25/09/2024	
Sample Description	: SOIL		Receipt Date	: 27/09/2024	
			Period of Analysis	: 27/09/2024-	07/10/2024
Name & Address of the			Report Date	: 07/10/2024	
	Village- Raikheda, I Chhattisgarh	Block- Tilda Raipur 493225	Party Reference No	: NIL	
	M/s ADANI POWE		Format No	: 7.8 F-01	
Sample Number VT	L/S0/05		Report No.	: VTL/S0/240	9270005/A
IBRANT			ULR No.	: TC1122724	00000134F

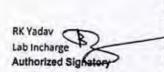
S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.95	
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.321	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.33	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	98.45	mg/kg
5	Exchangeable Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	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/hec.
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-06	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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11	Colour			LICDA-1054 Dealformed 2010	Deddi		
S.No.		Paramete	rs	Test Method	Resul	Its	Units
		_			Coordinates	:NA	
Metho	d of sampling	9	: IS 2720		Packing Status	: Temporary S	ealed
Param	eter Required	d	: As per work orde	r	Sample Quantity	: 2 Kg.	
	e Collected E		: VTL Team		Sampling Type	: Composite	
Sampl	ing Location		: Near Field Hoste	I Garden	Sampling Date	: 25/09/2024	
	e Description		: SOIL		Receipt Date	: 27/09/2024	
		an second			Period of Analysis	: 27/09/2024-0	7/10/2024
Name	& Address of	the Party			Report Date	: 07/10/2024	
			Village- Raikhed: Chhattisgarh	a, Block- Tilda Raipur 493225	Party Reference No	: NIL	
			M/s ADANI POW		Format No	: 7.8 F-01	
Sampl	e Number :	VTL/S0/05			Report No.	: VTL/S0/2409	270005/B

Colour	USDA:1954-Reaffirmed, 2010	Reddish	
Water holding capacity	USDA:1954-Reaffirmed, 2010	35.16	%
Total Chromium (as Cr)	USEPA 3050 B:1996	4.12	mg/kg
Soil Texture	IS:2720 (P-4), RA:2006	Sandy Loam	-
	Water holding capacity Total Chromium (as Cr)	Water holding capacity USDA:1954-Reaffirmed, 2010 Total Chromium (as Cr) USEPA 3050 B:1996	Water holding capacity USDA:1954-Reaffirmed, 2010 35.16 Total Chromium (as Cr) USEPA 3050 B:1996 4.12

End of Report

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				ULR No.	: TC112272	4000002049F
Samp	le Number : VTL/WW/0	1		Report No.	: VTLWW	2409270001/A
		M/s ADAN	I POWER LIMITED	Format No	: 7.8 F-01	
			alkheda, Block- Tilda Raipur 493225	Party Reference No	: NIL	
Name	& Address of the Party	Chhattisga	am	Report Date	: 07/10/202	4
	a Address of the Farty			Period of Analysis	: 27/09/2024-07/10/2024	
Samp	le Description	: Waste Wa	iter	Receipt Date	: 27/09/202	4
Samp	ling Location	: STP Outle	t	Sampling Date	: 25/09/202	4
Samp	le Collected By	: VTL Team	1	Parameter Required	: As per wo	rk order
Coord	114134	: NA				
S.No.	Test Parameter	s	Test Method	Result	Unit	Limits
1	pH		IS: 3025 (P-11): 2022	7.68		5.5 to 9.0
2	Total Suspended Solids (T	SS)	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 Dema (3 days @ 27°C)	and (BOD)	IS: 3025 (P-44): 1993, RA: 2019	10.50	mg/l	30
5		(COD)	IS : 3025 (P-58) : 2006 RA: 2017	48.90		

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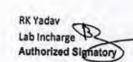
Village Chhatti		: M/s ADANI POW	VER LIMITED Ia, Block- Tilda Raipur 493225	ULR No. Report No. Format No Party Reference No Report Date	: TC1122724 : VTLWW/24 : 7.8 F-01 : NIL : 07/10/2024	
Samp Samp Prese	le Description ling Location le Collected By rvation of of sampling	: Waste Water : STP Inlet : VTL Team : Refrigerated : IS 3025		Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: 27/09/2024- : 27/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	07/10/2024
S.No.	Test Param	eters	Test Method	Resu	it	Unit
1	pH		IS: 3025 (P-11): 2022	7.29		
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	162.7	4	mg/l
3	Oil & Grease		IS:3025 (P-39): 2021	25.34	1	mg/l
4 Biochemical Oxygen Demand (BOD) (3 days @ 27*C)		IS: 3025 (P-44): 1993, RA: 2019	66.12	2	mg/l	
5	Chemical oxygen Demand	(COD)	IS : 3025 (P-58) : 2006 RA: 2017	295.0)	mg/l

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		02		ULR No.	: TC1122724	
Name Samp Samp Samp Prese	& Address of the Party le Description ling Location le Collected By rvation of of sampling	: M/s ADANI POV	VER LIMITED Ia, Block- Tilda Raipur 493225	Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: VTL/WW/24 : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024 : 27/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	
S.No.	Test Param	eters	Test Method	Resu		Unit
1	pH	IS: 3025 (P-11): 2022 al Suspended Solids (TSS) IS: 3025 (P-17): 2022 & Grease IS:3025 (P-39): 2021		7.38		
2	Total Suspended Solids (147.0)	mg/l
3	Oil & Grease			"BLQ("LO	Q-4.0)	
Biochemical Oxygen Demand (BOD) (3 days @ 27*C)		IS: 3025 (P-44): 1993, RA: 2019	39.0		mg/l	
5	Chemical oxygen Deman	d (COD)	IS : 3025 (P-58) : 2006 RA: 2017	252.0)	mg/l

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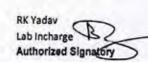
ience the	e unimaginable" le Number : VTL/WW/03		ULR No.		4000002054F
Name Samp Samp	M/s AD/ Village- Chhattis & Address of the Party : le Description : Waste V ling Location : ETP Ou le Collected By : VTL Tes	Vater let	Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Parameter Required	: 7.8 F-01 : NIL : 07/10/202/ : 27/09/202/ : 27/09/202/ : 25/09/202/	4-07/10/2024 4 4
S.No.	Test Deservations	Test Method	Result	Unit	1 Leather
5.NO.	Test Parameters	Tearmeniou	Treoute	Othe	Limits
1	pH	IS: 3025 (P-11): 2022	7.98	-	5.5 to 9.0
1 2	A SAMA SAMA SAMA SAMA SAMA SAMA SAMA SA		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2404	
1	рн	IS: 3025 (P-11): 2022	7.98		5.5 to 9.0
1 2	pH Total Suspended Solids (TSS)	IS: 3025 (P-11): 2022 IS: 3025 (P-17): 2022 IS:3025 (P-39): 2021	7.98 18.64	- mg/l	5.5 to 9.0 100

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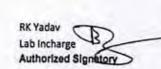
Samp	KANT	: M/s ADANI PO Village- Raikhe	WER LIMITED da, Block- Tilda Raipur 493225	ULR No. Report No. Format No Party Reference No	: TC1122724000002055F : VTL/WW/2409270005/A : 7.8 F-01 : NIL	
Sample Description : Waste Water Sampling Location : Cooling Tower Sample Collected By : VTL Team Preservation : Refrigerated Method of sampling : IS 3025					: 07/10/2024 : 27/09/2024-07/10/2024	
			Die Des Literation	Receipt Date	: 27/09/2024	
		Blow Down Inlet Unit-II	Sampling Date Sampling Type	: 25/09/2024 : Grab		
				Sample Quantity Coordinates	: 2 Ltr : NA	
S.No.	. Test Param	eters	Test Method	Resu	lt	Unit
1	Chromium (as Cr)		APHA 23rd Edition 3113 B, 2017	BLQ("LO	Q-0.1)	ng/l
2	Zinc (as Zn)		APHA 23rd Edition-3030D, 3113 2017	B, *BLQ(**LO	Q-0.2)	mg/l
3	Residual Free Chlorine		IS: 3025 (P-26):2021	0.34	0.000	mg/i

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Samp	le Number: VTLWW/	05		Report No.	: VTLWW/24	409270005/B
Name	a & Address of the Party			Format No Party Reference No Report Date	: 7.8 F-01 : NIL : 07/10/2024	
Sample Description : Waste Wate Sampling Location : Cooling Tow Sample Collected By : VTL Team Preservation : Refrigerated Method of sampling : IS 3025			Blow Down Inlet Unit-II	Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: 27/09/2024-07/10/2024 : 27/09/2024 : 25/09/2024 : Grab : 2 Ltr : NA	
S.No	o. Test Parameters		Test Method	Resu	lt	Unit
1	Phosphate (as PO4)		IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022		Q-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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	VAUAI		ULR No.	: TC1122724000002056F		
Samp	Bre Nomber VTLWW	07		Report No.	: VTLWW/	2409270006/A
		M/s AD/	ANI POWER LIMITED	Format No	: 7.8 F-01	
			Raikheda, Block- Tilda Raipur 493225	Party Reference No	: NIL	
Name	& Address of the Party	Chhattis	garh	Report Date	: 07/10/2024	4
marine	a Address of the Party			Period of Analysis	: 27/09/2024-07/10/2024	
Sample Description : Waste W			Vater	Receipt Date	: 27/09/2024	
Samp	oling Location	: Cooling	Tower Blow Down Outlet Unit-II	Sampling Date	: 25/09/2024	
Sample Collected By : VTL Tea Coordinates : NA			/TL Team	Parameter Required	As per work order	
S.No	. Test Paramete	ers	. 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

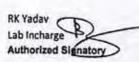
3 Residual Free Chlorine IS: 3025 (P-2 *BLQ-Below Limit OF Quantification, **LOQ- Limit Of Quantification

End of Report











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"Stanifild"Nonifor?" VTLWW		M/s AD/	NI POWER LIMITED Raikheda, Block- Tilda Raipur 493225 narb	Report No. Format No Party Reference No	: VTL/WW/2409270006/B : 7.8 F-01 : NIL	
Name	& Address of the Party		30.11	Report Date	: 07/10/2024	4
	Sample Description		Vater	Period of Analysis Receipt Date	: 27/09/2024-07/10/2024 : 27/09/2024	
Samp	ling Location	: Cooling	Tower Blow Down Outlet Unit-II	Sampling Date	: 25/09/2024	
Sample Collected By Coordinates		: VTL Tea : NA	m	Parameter Required	As per work order	
S.No.	Test Paramet	ers	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 *BLQ-Below Limit OF Quantification, **LOQ- Limit Of Quantification

End of Report

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mg/l

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RK Yadav
Lab Incharge
Authorized Signatory

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Sample Number : VTL/WW/	Contractor and		ULR No. Report No.		24000002057F 2409270007/A	
Name & Address of the Party	: M/s ADANI POV		Format No	: 7.8 F-01		
	Chhattisgarh	da, Block- Tilda Raipur 493225	Party Reference No	: NIL		
	onnamagan		Report Date	: 07/10/2024		
			Period of Analysis	: 27/09/2024-	-07/10/2024	
Sample Description	: Waste Water		Receipt Date	: 27/09/2024		
Sampling Location : Cooling Wate		Condenset Inlet unit -II	Sampling Date	: 25/09/2024 : Grab		
Sample Collected By	: VTL Team	VTL Team				
Preservation	: Refrigerated		Sample Quantity	: 2 Ltr		
Method of sampling	: IS 3025		Coordinates	:NA		
S.No. Test Param	eters	Test Method	Resu	lt	Unit	
1 pH	IS: 3025 (P-11): 2022		7.29			
2 Temperature		IS: 3025 (P-9): 1984, RA 2017	22.8	8 °C		
3 Residual Free Chlorine		IS: 3025 (P-26):2021	*BLQ(**LO		mg/l	

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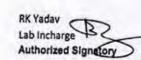
	fe Number: VTLWW/	The second second		ULR No. Report No.		724000002058F V/2409270008/A
Village- Chhattis Name & Address of the Party : Sample Description : Waste V				Format No Party Reference No Report Date Period of Analysis Receipt Date	: 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024-07/10/2024 : 27/09/2024	
Samp Coord	ling Location le Collected By inates	: Cooling V : VTL Team : NA	Vater Condenset Outlet unit -II n	Sampling Date Parameter Required	: 25/09/2024 As per work order	
S.No.	Test Paramete	ers	Test Method	Result	Unit	Limits
1	pН		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

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	KAN I Number : VTL/WW/	04		ULR No. Report No.		24000002059F 2409270009/A
Name & Address of the Party : M/s A Villag		: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 Chhattisgarh		Format No Party Reference No	: 7.8 F-01 • : NIL : 07/10/2024	
Sample Description : Waste Water			r er Blow Down Inlet Unit-I	Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates		
S.No	. Test Param	est Parameters Test Method		Resu	Result	
1	Chromium (as Cr)	n (as Cr) APHA 23rd Edition 3113 B, 2017		BLQ(**LO	Q-0.1)	mg/l
2	Zinc (as Zn)		APHA 23rd Edition-3030D, 3113 2017	B, *BLQ(**LO	Q-0.2)	mg/l
3	Residual Free Chlorine		IS: 3025 (P-26):2021	0.36	0.36	

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

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Name & Address of the Party : M/s ADANI POWER LIMITED Format No : 7.8 F-01 Village- Raikheda, Block- Tilda Raipur 493225 Party Reference No : NIL Chhattisgarh Report Date : 07/10/2024 Sample Description : Waste Water Receipt Date : 27/09/2024-07/10/2024 Sample Collected By : VTL Team Sampling Date : 25/09/2024 Sample Collected By : VTL Team Sample Quantity : 2 Ltr Method of sampling : IS 3025 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	
Name & Address of the Party : M/s ADANI POWER LIMITED Format No. : 7.8 F-01 Village- Raikheda, Block- Tilda Raipur 493225 Party Reference No. : NIL Sample Description : Waste Water Receipt Date : 07/10/2024 Sample Collected By : VTL Team Sampling Type : 25/09/2024 Preservation : Refrigerated Sample Quantity : 2 Ltr Method of sampling : IS 3025 Coordinates : NA				Chloride Method) Sec.3 RA: 2022	the second se)Q-0.2) mg/l		
Name & Address of the Party: M/s ADANI POWER LIMITED Village- Raikheda, Block- Tilda Raipur 493225 ChhattisgarhFormat No: 7.8 F-01Sample Description: Waste WaterParty Reference No: NILSampling Location: Cooling Tower Blow Down Inlet Unit-ISampling Date: 27/09/2024-07/10/2024Sample Collected By: VTL TeamSampling Type: GrabPreservation: RefrigeratedSample Quantity: 2 LtrMethod of sampling: IS 3025Coordinates: NA	S.No.	roott aran	eters	2010 105 T (F	Resu	lt	Unit	
Name & Address of the Party : M/s ADANI POWER LIMITED Format No : 7.8 F-01 Village- Raikheda, Block- Tilda Raipur 493225 Party Reference No : NIL Chhattisgarh Report Date : 07/10/2024	Sampling Location : Co Sample Collected By : VTI Preservation : Rel		: Cooling Tower : VTL Team : Refrigerated	Blow Down Inlet Unit-I	Receipt Date Sampling Date Sampling Type Sample Quantity	: 27/09/2024 : 25/09/2024 : Grab : 2 Ltr		
	Village-				Format No : 7.8 F-01 Party Reference No : NIL Report Date : 07/10/202		4	

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RK Yadav	
Lab Incharge	-
Authorized Signatory	

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Village Chhatt Name & Address of the Party : Sample Description : Waste Sampling Location : Cooling		M/s AD Village- Chhatti : : Waste	Water Tower Blow Down Outlet Unit-I	ULR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Parameter Required	: TC112272400002060F : VTL/WW/2409270010/A : 7.8 F-01 : NIL : 07/10/2024 : 27/09/2024-07/10/2024 : 27/09/2024 : 25/09/2024	
Coord	dinates	: NA			As per wo	rk order
S.No	. Test Paramete	ers	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

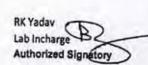
*BLQ-Below Limit OF Quantification, **LOQ- Limit Of Quantification

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TEST REPORT



Samp	le Number : VTLWW/	06		Report No.	: VTLWW/	2409270010/B
		M/s AD	ANI POWER LIMITED	Format No	. 7.8 F-01	
		Village- Chhattis	Raikheda, Block- Tilda Raipur 493225	Party Reference No	: NIL	
Name	& Address of the Party	· ·	gam	Report Date	: 07/10/2024	
Sample Description		: Waste Water		Period of Analysis Receipt Date	: 27/09/2024-07/10/2024 : 27/09/2024	
Samp	ling Location	: Cooling	Tower Blow Down Outlet Unit-I	Sampling Date	: 25/09/2024	
	le Collected By inates	: VTL Team : NA		Parameter Required	As per work order	
S.No.	Test Paramete	ors	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 *BLQ-Below Limit OF Quantification, **LOQ- Limit Of Quantification

End of Report

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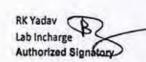
Samp	KAN I Se Number * VTLWW/ a & Address of the Party	: M/s ADANI POW	VER LIMITED a, Block- Tilda Raipur 493225	ULR No. Report No. Format No	: TC1122724000002061F : VTL/WW/2409270011/A : 7.8 F-01		
		Chhattisgarh		Party Reference No Report Date	 NIL 07/10/2024 27/09/2024-07/10/2024 27/09/2024 		
Sample Description : Waste Water				Period of Analysis Receipt Date			
			ondenset Inlet unit -I	Sampling Date	: 25/09/2024 : Grab : 2 Ltr		
	ble Collected By ervation	: VTL Team : Refrigerated		Sampling Type Sample Quantity			
Meth	od of sampling	: IS 3025		Coordinates	:NA		
S.No	. Test Param	eters	Test Method	Resu	lt	Unit	
1	pH		IS: 3025 (P-11): 2022	7.29	7.29		
2 Temperature			IS: 3025 (P-9): 1984, RA 2017	23.14	23.14		
3 Residual Free Chlorine		IS: 3025 (P-26):2021	"BLQ(""LO	*BLQ(**LOQ-0.2)			

End of Report











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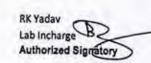
	ANI			ULR No.	: TC1122	724000002062F	
Sampl	e Number! VTL/WW/	02		Report No.	: VTLAW	V/2409270012/A	
		M/s AD	ANI POWER LIMITED	Format No	: 7.8 F-01		
		and the second se	Raikheda, Block- Tilda Raipur 493225	Party Reference No	: NIL		
Mama	P Address of the Darks	Chhattis	sgarh .	Report Date	: 07/10/20	24	
Name & Address of the Party : Sample Description : Waste W				Period of Analysis	: 27/09/2024-07/10/2024		
			Water	Receipt Date	: 27/09/2024		
Sampl	ling Location	: Cooling	Water Condenset Outlet unit -I	Sampling Date	: 25/09/2024		
Sampl	le Collected By	: VTL Te	am	Parameter Required	: As per w	ork order	
Coordi	nates	: NA					
S.No.	Test Paramete	ers	Test Method	Result	Unit	Limits	
1	рН		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	

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Project Name: M/s Adani Power Limited

Formerly M/s Raipur Energen Limited located at Village: Raikheda, Block- Tilda, Dist.-Raipur (Chhattisgarh) IInd Quarterly Environmental Monitoring Report

Chapter-5

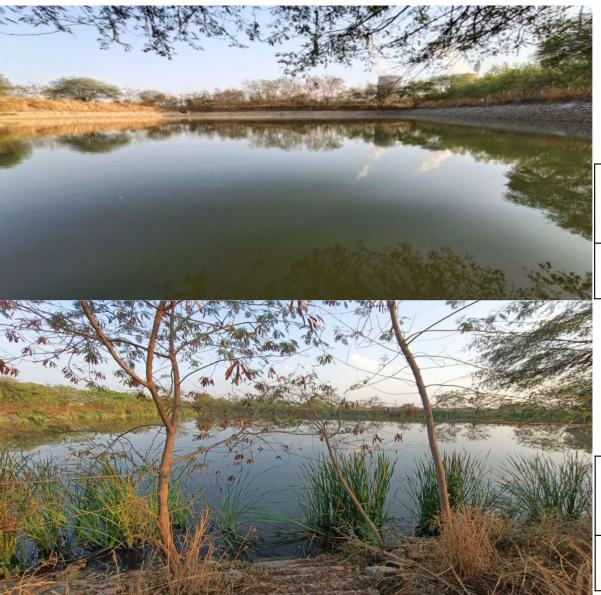
CONCLUSION

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 ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , 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 an 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

Name of Structure	Length (In Mtr)	Width (In Mtr)	Depth (In Mtr)	Total Area (In M ³)	
Recharge Pond -1	70	55	10	38500	

Rainwater Harvesting Pond -2

Name of Structure	Length (In Mtr)	Width (In Mtr)	Depth (In Mtr)	Total Area (In M³)
Recharge Pond - 2	48	46	10	22080

Sr. No.	Plant Activities	Pollution Control Measures
1	Coal Yard	Dust Suppression System
2	Coal Handling system:	
	 Wagon Tippler Crusher House Coal Bunker Coal Transfer House 	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 SO2 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 SO2 emission is up to December 2026. Accordingly, the work is under progress

List of Pollution Control Equipment/Devices

Annexure- IV

	Fly Ash Generation & Utilization Details - Apr. 2024 to Sep. 2024 Adani Power Limited, Raipur										
		As	sh Generatio	on and Utilization	(in MT)				f Ash Utiliz n in each Mo	ation and ode (in MT)	
SI. No.	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
	TOTAL	1137691	284423	1422114	1440302	101.28	10963	482318	4840	647162	295018

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" 8/5, "JASMATI BHAWAN", NEAR OLD KATTHA FACTORY, GODHANPUR, AMBIKAPUR – 497001 CONTACT – #99261-54460 #94255-80401

WEBSITE – <u>www.navaastha.in</u>

Email – <u>najvss@gmail.com</u>

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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 07th 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 the inclusion of environmental considerations for 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 **Environmental** on 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 $1/3^{rd}$ (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.	Acacia auriculiformis A.cunn	Mimoseae	Australian Wattle	Tree	16
2.	Acacia nilotica (Linn) Wild	Mimoseae	Indian gum	Tree	8
3.	Albizia lebbeck Benth	Mimoseae	Sirisha		15
4.	Anthocephalus chinensis (Lamk.)	Rubiaceae	Kadambama	Tree	20
5.	Azadirachta indica	Meliaceae	Neem	Tree	20
6.	Bambusa arundinacia (Retz)Roxb	Poaceae	Thorny Bamboo	Shrub	20
7.	Bambusa vulgaris Schrad	Poaceae	The Golden Bamboo	Shrub/ Tree	15
8.	Bauhinia purpurea Linn	Caesalpinaceae	Butterfly tree	Tree	7
9.	Bauhinia varigata Linn	Caesalpinaceae	Budhist bauhinia	Tree	5
10.	Cassia fistula Linn	Caesalpinaceae	Golden showers	Tree	12
11.	Citrus aurantium Linn	Rutaceae	Citrus tree	Tree	5
12.	Cocos nucifera Linn	Arecaceae	Coconut tree	Tree	15
13.	Delonix regia (Boijer) Rafin.	Caesalpinaceae	Flame tree	Tree	15
14.	Emblica officinalis Gaertn.	Euphorbiaceae	Gooseberry	Tree	5
15.	Eucalyptus citriodora Hook	Myrtaceae	Lemon scented gum	Tree	20
16.	Ficus benghalensis Linn	Moraceae	Banyan tree	Tree	20
17.	Ixora undulate	Rubiaceae	Ixora	Tree	6
18.	Madhuca longifolia (Koen)	Sapotaceae	The butter tree	Tree	15
19.	Mangifera indica Linn	Anacardiaceae	Mango tree	Tree	15
20.	Nerium indicum	Apocynaceae	Pink oleander	Shrub	5
21.	Peltophorum pterocarpum	Caesalpinaceae	Copper pod tree	Tree	20
22.	Polythia longifolia	Anonaceae	Ashoka tree	Tree	20
23.	Terminalia catappa	Combretaceae	The Indian almond	Tree	10

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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.

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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 $1/3^{rd}$ (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, snacks etc. thus biodiversity is restored.
- 3. A properly designed green belt of adequate width alts 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 with in 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 = Pollution level at a point a just outside without the greenbelt 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

					[•] Limited, Raikheo to 31.08.2023	14		
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
		em premises.	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
		2020-2021	16.04	9718		3100.00	1200.00	106.00
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

Sr.	Green	Location	Area in	Tree	to 31.08.2023 Tree Spp.	Shrubs	Green	Palm
No.	Zone		(Hect.)	(No.)	The spp.	(Sq. Mt.)	Carpet (Sq.Mt.)	(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
			12.594	5760		300	0	0
3	90/3	Fire building to Technical	0.544	0	Lawn	0	5441	0
		building.	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
			0.687	0		1350	5441	80
4	90/4 Nursery Development	0.250	100	Mangifera indica	0	0	0	
		(Capacity: 144000 Number Saplings incl. all species)	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
			0.189	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

Sr. No.	Green Zone	Location	Area in (Hect.)	Tree (No.)	to 31.08.2023 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
			1.773	954		1860	0	0
		2021-2022	15.05	6714.00		3510.00	5441.00	80.00
5	90/5	Plantation at Nursery and	0.17	12	Ficus religiosa	0	0	0
		CHP surrounding area.	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
		Premises.	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 & Phillps office between area	0.58	1460	Tectona grandis	0	0	0

					Limited, Raikhe to 31.08.2023	da		
Sr. No.	Green Zone	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm (No.)
			2.84	5318		0	0	0
6	90/6	CWPH & SYCR Between	0.10	0	Lawn Carpet	0	1000	0
		area.	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
			0.61	450		228	1000	15
7	90/7	Main Security Gate	0.012	0	Lawn Carpet	0	120	0
		Entrance / Friendship park.	0.001	0	Hedge Plantation	12	0	0
			0.001	0	Group Plantation	12	0	0
			0.048	0	Lawn Carpet	0	484	0
			0.0628	0		24	604	0
8	90/8	All internal approach roads of plant premises. (Murum Roads available in Natural Jungle)	2.9472	7368	Teak	0	0	0
9	90/9	Precison Workshop surrounding.	0.1440	90	Bauhinia blackiana, Ficus bengalensis, Swietenia macrophylla, Azadirachta indica, Pongamia pinnata, Delonix regia Mixed plants Each 15 No.	0	0	0
10	90/10	AWRS	0.0888	222	Mahogany	0	0	0
			0.0712	178	Conocarpus	0	0	0

				-	to 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
			2.9410	498		34	98	42
11	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
			0.5839	1031		132	1463	120
12	90/12	Security main Gate to CSR	0.0864	54	Mahogany	0	0	0
		premises, Safety park back side and Hostel premises.	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
			0.9695	180		238	6499	25
13	90/13	Helipad Ground	0.0028	7	Casuarina	0	0	0

					Limited, Raikhe to 31.08.2023	da		
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
			0.7604	937		79	9623	334
	<u> </u>	2022-2023	11.7987	15872		711	18683	536
14	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
			1.0761	288		267	5430	86
15	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
			1.7909	0		156	13913	240
16	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

Sr.	Green	Location	Area in	Tree	to 31.08.2023 Tree Spp.	Shrubs	Green Carpet	Palr
No.	Zone		(Hect.)	(No.)		(Sq. Mt.)	(Sq.Mt.)	(No
			0.0098	0	Ornamental Group plantation.	98	0	0
			1.4817	510		284	12061	48
17	90/17	Guesthouse area	0.004	40	conocarpus	0.00	0.00	0.00
			0.009	93	Delonix regia (mini)	0.00	0.00	0.00
			0.002	16	Bauhinia blakeana	0.00	0.00	0.00
			0.001	6	Mahogany	0.00	0.00	0.00
			0.002	15	Ashoka pendula	0.00	0.00	0.00
			0.017	170		0.00	0.00	0.00
18	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
			0.65	6480.00				
19		Zone A, B and Old project office side, loko	0.077	773	conocarpus	0.00	0.00	0.00
		side	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
			0.031	309	Karanj	0.00	0.00	0.00
			0.397	3967				
20	90/20	ZoneA, Zone B and Zone	0.014	139	Ashoka	0.00	0.00	0.00
		C	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

		Green			Limited, Raikhee to 31.08.2023	da		
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
			0.146	1464				
21	90/21	ZoneA, Zone B and Zone	0.003	25	Ashoka			
		С	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			
			0.047	474				
		2023-24 till Sep 2023	5.60	13353		707.00	31404.00	374.0
	Total (20	00- till 30.09.2023)	48.50	45657		8028.00	56728.00	1096.0

	Details of Plantation (Adani Powe	r Ltd., Raij	pur)	
Sr. No.	Description of Area	Hectare	Area in Acre	Total no. of Plants/Saplings
Natu	iral Forest & Plantation done during Project State (ti	ll FY: 2017	7)	
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 Lioyd 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
	Total till FY 2017	111.70	275.97	227218

Plantation period: Jan. 2020- Sep 2023	19.63	48.50	45657
Total Green Belt	131.33	324.47	272875

		Name of	Unit - Adar	ii Power Limited, Raikheda	
Sr. No.	Location	Area (in Hect.)	Tree (Nos.)	Tree Species	Remarks
		0.02	170	Conocarpus	
		0.01	100	Karanj] [
		0.00	30	Jamun	
1.	Vauerangi	0.00	30	Amla	Plantation in RIPA area
1.	Kausrangi	0.00	25	Kadam	
		0.00	35	Gulmohar]
		0.00	35	Jack fruit] [
		0.01	80	Neem]
	Total		505		
		0.02	190	Anjan	
2.	Mura	0.02	150	Karanj	Plantation in Mura
		0.01	70	Neem	<u>] </u>
	Total		410		
		0.01	112	Cassia grandis	
		0.01	130	Spathodia compunalata]
		0.01	142	Bahunia blackinia]
3.	Naya Raipur	0.03	310	Bouganvilia	Plantation in Naya Raipur
		0.04	419	Nerium dwarf]
		0.02	245	Thewatia nerifolia]
		0.03	324	Pulchurima	
	Total		1682		
	Grand Total		2597		

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 conservation 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(400m²)**. 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:

Density = No. of individual of the plant species Total number of plots in which the species is present

		-	ies in Natural Forest ani Power Limited, Raikheda
Location	Area	Tree (Nos.)	Tree Species
Campus of Adani Power Limited, Raikheda, Tilda, Raipur	42 Hectares	52968	Teak (Tectona grandis)Sal (Shorea robusta)Shisham (Dalbergia sissoo)Harra (Terminalia chebula)Baheda (Terminalia bellirica)Mahua (Madhuca indica)Amla (Phyllanthus emblica)Semul (Bombax ceiba)Kusum (Schleichera oleosa)Chandan (Santalum album)Tendu (Diospyros melanoxylon)Palas (Butea monosperma)Amaltas (Cassia fistula)Bel (Aegle marmelos)Khair (Senegalia catechu)Dhawra (Anogeissus latifolia)Saja (Terminalia elliptica)Bija (Pterocarpus marsupium)Bamboo (Bambusa vulgaris)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 Decideuos 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==

Annexure - VI



1

Site: Raipur

Utilization Status

Site name: RAIPUR

Verticals Budget NFA expected NFA approved **PR** approved PO issued Utilization 69.12 68.6 68.6 25.01 1. Edu 52.37 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 17.17 13.17 5.08 5.02 4 CD 13.67 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 Total 255.25 228.41 206.59 166.07 137.85 120.94



Key programmatic accomplishments



- Multi Specialty Health Camps :- Catering to the specific diesese centric problems of the villagers, AF organized 02 Multi specialty & 01 Gyneac 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





Key programmatic accomplishments



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



adani

Key programmatic accomplishments



- 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



- 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





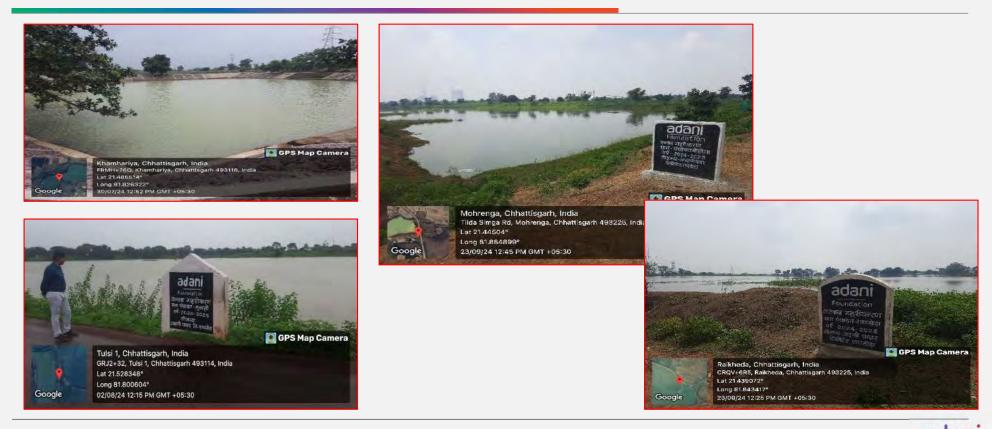
Key programmatic accomplishments



- 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



adani

Growth ^{with} Goodness adani

Thank You!



adani

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

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India

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:



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 31st MARCH 2023

<u> PART – A</u>

(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

<u> PART – B</u>

WATER AND RAW MATERIAL CONSUMPTION

I. Water Consumption (m³ / Day)

Process :	1061.37	m ³ /day (Wate consumption in DM water generation)
Cooling :	50793.70	m ³ /day (CT Makeup water consumption)
Domestic:	160.46	m ³ /day (Potable water Consumption)

Sr. No.	Name of product	Water consumption per unit of product output for plant operation		
	Electricity	During the current financial Year 2022-23	During the current financial Year 2023-24	
		2.268 m³/MWh	2.242 m ³ /MWh	

II. Raw Material Consumption

SI.	Name of raw	Name of	Consumption of raw material per unit of output	
51. No.	material	product	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

<u> PART – C</u>

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/Nm3)	Percentage of variation from prescribed standards with reason	
а.	Water	0.00	0.00	Plant is designed for zero discharge	
	Air: PM	4.64	38.90	Within the standards of CECB/CPCB	
b.	SO2	131.63	1104.66	As per MoEF&CC notification dated 05th September 2022, APL is a Category "C" TPP and timelines for compliance of SO2 emission is up to 31st December 2026.	
	NOx	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.

<u> PART – D</u>

HAZARDOUS WASTES

AS SPECIFIED UNDER HAZARDOUS WASTES (MANAGEMENT, HANDLING AND TRANS BOUNDARY MOVEMENT) RULES, 2016

	Total quantity (KL)			
Hazardous wastes	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		

<u> PART – E</u>

SOLID WASTES (ASH)

		Total Quantity in MT		
Sr. No.	Solid Wastes	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	
	(1) Quantity recycled or re- utilized within the unit	0.00	0.00	
(c)	(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 Odisa 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 Shiking Stone Ordshell
 M/s Raj Laxmi Traders
 - M/s Ashish Group of Industries
 - M/S Mahamaya Stone Pvt Ltd
 - M/s Anmadi Transport

- M/s Chakladharrot
 M/s A V Enterprises
 - M/s A v Encerpris
 M/s Raj Traders
 - M/s Akash Enterprises
 - 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 form plant canteens and guest houses is decomposed in Organic Waste Composting System to produce green manure,

<u> PART – G</u>

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 O3 wagon tipplers 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 M³ 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.

<u> PART - H</u>

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) O3 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 1st to 5th 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

Name of Structure	Length (In Mtr)	Width (In Mtr)	Depth (In Mtr)	Total Area (In M ³)
Recharge Pond -1	70	55	10	38500

Rainwater Harvesting Pond -2

Name of Structure	Length (In Mtr)	Width (In Mtr)	Depth (In Mtr)	Total Area (In M³)
Recharge Pond - 2	48	46	10	22080

Annexure - II

Green-Belt area developed: Trees & Shrubs Planted Adani Power Limited, Raipur

Green Belt Required as per Environmental Clearance: 113.51 Ha.				
Plantation Details	Completed	Under Progress		
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

Sr. No.	Expense Details	Expense Incurred (Rs. in Lakhs)
1.	Cost incurred on procurement of spares, flanges and fittings of Ash Handling System for: – Ash Conveying and slurry lines replacement	391.34
	 CAC and IAC Maintenance ESP Electrodes replacement Bottom ash Clinker grinder maintenance 	
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) - Assy, Gold Mirror, MM:C4N-GCEM40HT Mirror for CEMS - Protector F/Outdoor Temp. Sensor, ALRE for CEMS/CO - Datconn ⁺ FM Data Unit (Black Box), for CEMS - KIT- Probe, MM:C4N-H TOPTICSKIT-Complete for CEMS - Interface, PCB, MM:C4N-PC BDDU Interface for CEMS	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
	Total Capital Expenditure (Rs. in Lakhs)	75440
		754.18
Rec	uring Expenditure (Waste disposal, emissions treatment, and remediation of	
Rec 1.		
	uring Expenditure (Waste disposal, emissions treatment, and remediation of Cost incurred on overhauling of DE system @ Coal Bunker and Filter replacement	costs)
1.	 uring Expenditure (Waste disposal, emissions treatment, and remediation of Cost incurred on overhauling of DE system @ Coal Bunker and Filter replacement in Ventilation System at Coal Handling Plant Cost incurred on ESP Overhauling work (Internal repair and TR maintenance) Cost incurred on Ash utilization/disposal system: Hiring of Machinery & Equipment for excavation & loading of pond ash for further disposal in allocated abandon mine void and other low laying areas 	costs) 15.00
1. 2.	 uring Expenditure (Waste disposal, emissions treatment, and remediation of Cost incurred on overhauling of DE system @ Coal Bunker and Filter replacement in Ventilation System at Coal Handling Plant Cost incurred on ESP Overhauling work (Internal repair and TR maintenance) Cost incurred on Ash utilization/disposal system: Hiring of Machinery & Equipment for excavation & loading of pond ash for further disposal in allocated abandon mine void and other low laying areas inside plant premises. Transportation & Disposal of ash from plant site to abandon Mine Voids 	costs) 15.00 26.00
1. 2.	 uring Expenditure (Waste disposal, emissions treatment, and remediation of Cost incurred on overhauling of DE system @ Coal Bunker and Filter replacement in Ventilation System at Coal Handling Plant Cost incurred on ESP Overhauling work (Internal repair and TR maintenance) Cost incurred on Ash utilization/disposal system: Hiring of Machinery & Equipment for excavation & loading of pond ash for further disposal in allocated abandon mine void and other low laying areas inside plant premises. 	26.00 224.87
1. 2. 3.	 uring Expenditure (Waste disposal, emissions treatment, and remediation of Cost incurred on overhauling of DE system @ Coal Bunker and Filter replacement in Ventilation System at Coal Handling Plant Cost incurred on ESP Overhauling work (Internal repair and TR maintenance) Cost incurred on Ash utilization/disposal system: Hiring of Machinery & Equipment for excavation & loading of pond ash for further disposal in allocated abandon mine void and other low laying areas inside plant premises. Transportation & Disposal of ash from plant site to abandon Mine Voids 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 	costs) 15.00 26.00 224.87 2286.86
1. 2. 3. 4.	 uring Expenditure (Waste disposal, emissions treatment, and remediation of Cost incurred on overhauling of DE system @ Coal Bunker and Filter replacement in Ventilation System at Coal Handling Plant Cost incurred on ESP Overhauling work (Internal repair and TR maintenance) Cost incurred on Ash utilization/disposal system: Hiring of Machinery & Equipment for excavation & loading of pond ash for further disposal in allocated abandon mine void and other low laying areas inside plant premises. Transportation & Disposal of ash from plant site to abandon Mine Voids 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. 	costs) 15.00 26.00 224.87 <u>2286.86</u> 31.21
1. 2. 3. 4.	 uring Expenditure (Waste disposal, emissions treatment, and remediation of Cost incurred on overhauling of DE system @ Coal Bunker and Filter replacement in Ventilation System at Coal Handling Plant Cost incurred on ESP Overhauling work (Internal repair and TR maintenance) Cost incurred on Ash utilization/disposal system: Hiring of Machinery & Equipment for excavation & loading of pond ash for further disposal in allocated abandon mine void and other low laying areas inside plant premises. Transportation & Disposal of ash from plant site to abandon Mine Voids 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. Cost incurred on chemical treatment of Effluent at Water Treatment Plant 	costs) 15.00 26.00 224.87 2286.86 31.21 10.91
1. 2. 3. 4. 5. 6.	 uring Expenditure (Waste disposal, emissions treatment, and remediation of Cost incurred on overhauling of DE system @ Coal Bunker and Filter replacement in Ventilation System at Coal Handling Plant Cost incurred on ESP Overhauling work (Internal repair and TR maintenance) Cost incurred on Ash utilization/disposal system: Hiring of Machinery & Equipment for excavation & loading of pond ash for further disposal in allocated abandon mine void and other low laying areas inside plant premises. Transportation & Disposal of ash from plant site to abandon Mine Voids 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. Cost incurred on chemical treatment of Effluent at Water Treatment Plant Cost incurred on hiring services for environmental monitoring by CECB/MoEFCC authorized Environmental Monitoring agency as per compliance requirement. 	costs) 15.00 26.00 224.87 <u>2286.86</u> 31.21 10.91 13.95
1. 2. 3. 4. 5. 6. 7.	 uring Expenditure (Waste disposal, emissions treatment, and remediation of Cost incurred on overhauling of DE system @ Coal Bunker and Filter replacement in Ventilation System at Coal Handling Plant Cost incurred on ESP Overhauling work (Internal repair and TR maintenance) Cost incurred on Ash utilization/disposal system: Hiring of Machinery & Equipment for excavation & loading of pond ash for further disposal in allocated abandon mine void and other low laying areas inside plant premises. Transportation & Disposal of ash from plant site to abandon Mine Voids 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. Cost incurred on hiring services for environmental monitoring by CECB/MoEFCC authorized Environmental Monitoring agency as per compliance requirement. Cost incurred on Operation & Maintenance of Organic waste Composter System (Disposal of food waste) 	costs) 15.00 26.00 224.87 2286.86 31.21 10.91 13.95 1.74

ANNEXURE-TH



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 Singleuse 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 08th June 2023 to 07th June 2024.





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.



CII-ITC Centre of Excellence for Sustainable Development



Confederation of Indian Industry

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.

Annexure - IV

Expenditure incurred towards the implementation of Environmental Protection - 2022-23

Sr.	Expense Details	Expense Incurred (Rs. in Lakhs)
No.	High Pressure dust suppression system is installed at 03 wagon tipplers of Coal	57.30
1.	Handling Plant to control fugitive dust emission Dry Fog Dust control system installed in Conveyor belt receiving points and Transfer	46.00
	points at Coal Handling Plant area to control air born particles during movement of coal.	100.30
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 cola runoff water generated during wagon tippler operation	internation
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 O6 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
-	Total Capital Expenditure (Rs. in Lakhs)	259.71
1.	Expense on Ash handling and dust suppression system at Ash Handling Plant: Replacement of 1000 Mtr. Fly ash and 650 Mtr. slurry line	351.55
1000	suring Expenditure (Waste disposal, emissions treatment, and remediation costs):	
•	Installation of clinker grinder mechanical seal (32 Nos.) Hiring of AMC of expert service for maintenance of Geho Pump for ash conveying	
•	system	
2.	Installation of new Coal Slurry Pump at existing Coal settling pond for smooth operation at Coal Handling Plant	9.90
3.		1
۰	disposal in allocated abandon mine void and other low laying areas inside plant	184.8
	premises. Transportation & Disposal of ash from plant site to abandon Mine Voids	815.4
4.	the interview of OEM approved for	
	authorized Environmental Monitoring agenay as per complication equi	
5.	Cost incurred on Operation & Maintenance of Organic waste Composter System	4.2
5.	(Disposal of food waste)	
	Cost incurred on development and maintenance of green belt area (Horticultural	
6.	Cost incurred on development and maintenance of green belt area (Horticultural Activities) inside and around plant premises	
6. 7.	Cost incurred on development and maintenance of green belt area (Horticultural Activities) inside and around plant premises	1.7

Annexure - VIII

भारत सरकार परमाणु ऊर्जा विभाग विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड



Certificate Tracking ID / CTID : 2400624 Date of Issue / DOI : 23-Feb-2024 Certificate Serial No. / CSN : ULR-TC1170324000001748F TC-11703

Department of Atomic Energy

Board of Radiation & Isotope Technology

Government of India



Radioanalytical Laboratory

RADIOACTIVITY TEST CERTIFICATE

Ref : BRIT/RAL/DOM/1198-1205/MISC/875-882/23-24

То

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.

<u>Note</u>: (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



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The authenticity of this certificate is verifiable. Please scan the QR code using a QR scanning application on any mobile devices. Upon redirection you must enter the necessary information in landing page https://eportal.britatom.gov.in. We will then revert you back with a digital copy of the certificate in your verified e-mail ID. 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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