



Power

Ref: APL/Raigarh/TPP/EMD/MoEFCC/EC/229/11/24
Date: 28.11.2024

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 Six Monthly Compliance status of Environment Clearance (EC) for 1x600 MW Raigarh Energy Generation Limited, a Coal based Thermal Power Plant at village Chote Bhandar, Bade Bhandar, Sarvani & Amali Bhona in Tehsil Pussore of Raigarh District, Chhattisgarh.

Ref: Environment clearance vide letter no. **J-13012/57/2008-IA.II (T) dated 20.05.2011** and its subsequent amendment vide letter dated 16.04.2015 and 26.11.2019.

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 details, 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, Raigarh

**(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,
TV Tower road, Raigarh – 496 001, Chhattisgarh**

**Member Secretary,
Chhattisgarh Environment Conservation Board,
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SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE (EC)

For

1x600 MW

Raigarh Thermal Power Plant

At

**BADE BHANDAR VILLAGE, PUSSORE TEHSIL
RAIGARH DISTRICT CHHATTISGARH**

Submitted to:

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



Submitted By:

Environment Management Department

Adani Power Limited

**Bade & Chhote Bhandar Village,
Pussore Tehsil Raigarh District,
Chhattisgarh**

Period: April'2024 – September'2024

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Adani Power Limited, Raigarh

600 (1x600) MW Coal Based Thermal Power Plant

Introduction

Adani Power Limited, Raigarh (formerly known Raigarh Energy Generation Limited) has set up a Coal based Thermal Power Plant of capacity 1x600 MW at Village Chote Bhandar, Bade Bhandar, Sarvani & Amali Bhona, in Tehsil Pussore of Raigarh District.

Environmental Clearance has been granted by Hon'ble MoEFCC vide letter No. J-13012/57/2008-IA.II (T), dated 20.05.2010, subsequent amendment dated 16.04.2015 & transferred EC from REGL to APL, dated 24.04.2023.

Raigarh TPP has proposed expansion of existing unit of 600MW (1x600MW) Coal based the Thermal Power Plant by adding 1600 (2x800) MW deploying the state-of-the-art technology based on Ultra Super Critical Technology within the plant land area. The Terms of Reference (ToR) for proposed expansion is granted by MoEFCC, New Delhi vide File No: J-13012/57/2008.IA.II (T) dated: 23.09.2023.

Raigarh TPP has engaged NABL Accredited environment consultant M/s Vibrant Techno Lab Pvt. Ltd., Jaipur for sampling, monitoring & analysis of environmental parameters as per the statutory guidelines.

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

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Compliance Status on Environment Clearance

Vide letter no. F. No. J 13012/57/2008-IA. II (T), dated: 20.05.2010 and amendment dated: 16.04.2015 and extension dated 26.11.2019 & 17 & 30.07.2020 & EC transferred from Raigarh Energy Generation Limited to Adani Power Limited dated: 24.04.2023.

Sr. No.	EC Conditions	Compliance Status
A.	Specific Conditions	
i	Detailed hydro-geological study shall be conducted and submitted within six months from an institute/organization of repute to assess impact of surface water regime. Specific mitigation measures shall be spelt out and action plan for implementation of the same shall be provided. It shall be ensured that the area drainage is not disturbed due to the proposed power plant.	Complied. The Hydro-geological study has been carried out by reputed institute "M/S Water Solution Pvt. Ltd. "report had submitted in previous compliance report. The entire plant area is almost flat. There are no streams within the plant premises. Regular water quality monitoring being carried out by an agency accredited by NABL & Recognized by MoEFCC.
ii	Hydro-geological study of the area shall be also reviewed annually, and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity and quality is observed at any stage, immediate mitigating steps to contain any adverse impact on groundwater shall be undertaken.	Complied. The ground water quality and ground water level monitoring being carried out on regular basis and monitoring report is enclosed as Annexure – I.
iii	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within three months.	Being complied. 15 MCM Water has been allotted from Mahanadi River by Water Resources Dept. This quantity is adequate to meet the plant's requirements, including the lean season.
iv	No ground water shall be extracted for use in operation of the power plant even in lean season.	Being Complied. No ground water is being extracted for use in operation of Raigarh TPP. Water has been allotted from Mahanadi River by Water Resources Dept.
v	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.	Noted & Complied. There is no water body within the power plant premises.
vi	COC of 5.0 shall be adopted.	Being Complied COC of 5.0 is being maintained during plant operation.

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vii	Local employable youth shall be trained in skills relevant to the project for eventual employment in the project itself. The action taken report and details thereof to this effect shall be submitted to the Regional Office of the Ministry and the State Govt. Dept. concerned from time to time.	Complied. About 70 Number of local employments has been created which is 36% of total on Roll employees. For contractual side we deployed approx. 340 number which is 43% of total contract manpower.
viii	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.	There are no natural streams within the plant premises.
ix	Provision for installation of FGD shall be provided for future use.	Complied. Space for FGD is provided in plant layout. However, as per MoEFCC Notification dated 05 th September 2022 APL Raigarh TPP fall 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 & shall be completed within the scheduled time.
x	A stack 275 m with flue gas velocity of 25 m/s shall be installed.	Complied. One flue stack 275 meters has been provided and online continuous emission monitoring system (CEMS) installed for PM, SO _x & NO _x . Flue gas velocity is being maintained.
xi	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	Complied High Efficiency Electrostatic Precipitators have been provided (ESPs) to meet particulate emission less than 50 mg/Nm ³ . Monitoring report enclosed as Annexure – I .
xii	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 Adequate dust suppression system like water sprinkling system, dust extraction system, dry fog dust suppression system has been installed throughout coal handling chain and bag filters in LHS, RHS bunkers and crusher house, The high concentrated slurry disposal system and closed transferring pipelines have installed for ash disposal in Dyke.
xiii	Utilization of 100% Fly Ash generated shall be made from 4 th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Being Complied Fly ash utilization for the period of April'2024 to September'2024 is attached as Annexure – IV .

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xiv	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.	Complied. We have established two nos. of silo (Intermediate and Main) with capacity of 1000 MT & 2500 MT respectively for utilization of dry fly ash. High concentration slurry disposal system is provided for disposal of unutilized ash in ash pond. Ash water circulation system is provided. Monitoring of Mercury and other heavy metals (As, Cr, Pb etc.) is being carried out regularly and report is enclosed in Annexure - I.
xv	Ash pond shall be lined with HDP/LDP 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 Well-designed Ash Pond with LDPE lining has been established as per guidelines of MoEFCC/CEA/CPCB. Safety measures such as bund with toe wall and lining of side slope done to prevent any leachate.
xvi	For disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) it shall be ensured 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.	Compliance assured, after getting approval from concerned authority.
xvii	Green Belt consisting of 3 tiers plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised, and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 75 %.	Complied Green belt / plantation is developed in more than 33% of total plant area. Approximate 3,10,000 trees have been planted. Local plant species being preferred for the plantation as fast growing with thick canopy cover adequate height with longer duration of foliage, Perennial, and evergreen along with fruit bearing plants in adequate have also been planted. Greenbelt development plan has been approved by DFO. Greenbelt development status is enclosed as Annexure - III.
xviii	Two nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health	Complied Four nearby villages are adopted for development of basic amenities such as

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	centre, primary school etc. shall be developed in co-ordination with the district administration.	Construction of approach road, community hall, school room, safe drinking water facilities have been completed in all the adopted villages. Pond deepening work has been undertaken in village Bade bhandar and Sarwani. Tailoring training has been started from September 2022, total trained about 110 during the year. The activities carried out earlier are being monitored and sustained by the beneficiaries.
xix	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing fluoride free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Development activities are being carried out in the neighboring villages. Water filter cum cooler has been provided to Govt H S School, Bade Bhandar village. CSR report enclosed as Annexure-III
xx	A good action plan for R&R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R&R policy within three months from the date of issue of this letter.	Complied The project is out of Abadi/population area. The R&R plan has already been prepared, implemented, under progress and submitted to MoEFCC & CECB, Raipur.
xxi	An amount of Rs 6.0 Crores shall be specially earmarked for development activities for tribals of the nearby villages as committed by the project proponent vide its letter dated 23.03.2010. Specific schemes for upliftment of tribal families mentioning sustainable livelihood schemes shall be submitted to the Ministry within three months with time bound implementation and in-built monitoring programme. The above amount shall be over and above the fund earmarked for CSR activities.	Being Complied. CSR activities are under implementation. CSR report enclosed as Annexure-II .
xxii	Further an amount of Rs 15.0 Crores shall be earmarked as one-time capital cost for CSR programme as committed by the project proponent vide its letter dated 23.03.2010. Subsequently a recurring expenditure of Rs 3.0 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	Complied. INR 16.05 Crores was spent during the period of FY 2010- 2012 in CSR activities in compliance of Public hearing 2009. The CSR activities are undertaken through Adani Foundation: 1. Infrastructure development in the villages, 2. Livelihood Enhancement and training, 3. Education, 4. Community Health and Promotion of Sports and Culture. CSR report enclosed as Annexure-II

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xxiii	While identifying CSR programme the company shall conduct need-based assessment for the nearby villages 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 besides 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. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs.	Various income-generating activities were implemented and are under execution. Self Employed Tailor training conducted where 110 girls and women are trained. The company is industry partner for ITI Sariya, where Fitter, Electrician and COPA trade course is under operation. CSR report enclosed as Annexure-II
xxiv	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.	Being Complied. Social audit has been carried out by reputed institute IISWBM, Kolkata and Audit report already submitted with previous compliance report.
xxv	Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.	Complied. All streetlights have been replaced with Solar & solar geysers are installed in roof top of residential complexes within plant premises.
xxvi	A long-term study on 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.	Complied. Radioactive analysis carried out by Board of Radiation and Isotope Technology, Department of Atomic Energy, Govt. of India. Radioactive analysis report enclosed in Annexure - VI .
xxvii	Mercury emissions shall also be monitored. on periodic basis.	Complied Analysis report for Mercury emission monitoring in stack is enclosed in Annexure - I .

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xxix	Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, proper detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close co- ordination with the State Pollution Control Board.	Complied & being followed.
xxx	Green Belt shall also be developed around the ash pond over and above the Green Belt around the plant boundary.	Being Complied Green belt / plantation is developed in more than 33% of total plant area. About 3,10,000 saplings have been planted. Local plant species being preferred for the plantation as fast growing with thick canopy cover adequate height with longer duration of foliage, Perennial and evergreen along with fruit bearing plants in adequate have also been planted. Greenbelt development plan has been approved by DFO. Greenbelt development status is enclosed as Annexure - III .
xxxi	An Environmental Cell comprising of at least one expert in environmental science/ engineering, ecology, occupational health and social science, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social. impact improvement/ mitigation measures.	Complied. We have already established an Environmental Management Cell & Environment Head has direct reported to Senior Management.
xxxii	The project proponent shall formulate a well laid Corporate Environmental Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.	Complied APL Raigarh formulated Corporate Environmental Policy and formed environment management cell to ensure compliance with environmental laws and regulations.

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B.	GENERAL CONDITIONS	
i	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.	Complied ETP has been established to treat effluents and treated water is being reused within the premises. The concept of "Zero Liquid Discharge Condition" is implemented. Separate drainage networks are established for storm water. Effluent water quality report is enclosed in 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 Plants have been installed and the treated effluent is being used for plantation/greenbelt. Analysis report of STP is enclosed in Annexure - I.
iii	Rainwater harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Complied A rainwater harvesting & recharging system has already been constructed. 04 nos. of rainwater harvesting ponds have been constructed within premises.
iv	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 Adequate safety personnel are available in the plant site to take preventive control measures. Fire hydrant system provided for prevention of spontaneous fires in coal yard, especially during summer season. An Emergency Preparedness Plan is submitted to respective authorities. Following system provided for prevention of spontaneous fires in coal yard, especially during summer season. 1. For Easy access 3m gap is give on either side of coal heaps in case of vehicle or personnel movement, whenever required. 2. Thirty yard sprinkler are operational covering all heaps from both side. During dry season, all yard sprinklers are being operated twice in every shift, even if system is stopped. 3. During stacking. Dozer compaction is being done every 1.5 m of height of coal heap to mitigate air pockets in heaps preventing spontaneous combustion. 4. Continuous & whenever required, HEMM (Dozer, excavator etc.) is deployed for heap compaction & shaping & heap toe shaping. 5. Heap is covered via green aerated net to prevent any foreign VM, during dry season.

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		<p>6. Pile age is strictly maintained below 45 days per our in-house SOP.</p> <p>7. Thermography is being cloned in biweekly basis to spot any internal hot spot & if spotted immediate reclaiming is done as a precaution.</p>
v	<p>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.</p>	<p>Complied</p> <p>The fuel such as LDO and HFO are properly stored in minimum risk area & in consultation with Department of Explosives, Nagpur after getting NOC for the same.</p> <p>Disaster management plan (DMP) has been prepared to handle any eventuality in case of an accident taking place due to storage of oil.</p>
vi	<p>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.</p>	<p>Complied</p> <p>05 Nos. Piezometric wells are established within the plant premises. 02 Nos. upstream, 02 Nos are in Downstream & 01 is on cross center.</p>
vii	<p>Monitoring surface water quantity and quality shall also be regularly conducted, and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.</p>	<p>Complied</p> <p>The surface water samples being collected, and analysis report is enclosed as Annexure I.</p>
viii	<p>First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.</p>	<p>Complied</p> <p>First aid and sanitation for labours was provided during the construction.</p>
ix	<p>Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. 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</p>	<p>Complied</p> <p>Necessary action has been taken to maintain noise levels in work zone area within 75 dB (A) from source during the plant operation. The personal protective equipment (PPE) are provided to workers & employees working in noisy areas. Noise level monitoring is carried out regularly. Periodic audiometric check-up is being carried out.</p>

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	hearing loss including shifting to non-noisy/less noisy areas.	
x	Regular monitoring of ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed 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 Regular monitoring of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ CO and Hg is being carried and records are being maintained during construction phase as well as operational phase. Environmental monitoring report is enclosed as Annexure – I . Three online Continuous Ambient Air Quality Monitoring Station (CAAQM) System and one mobile Van for Ambient Air Quality Monitoring have been established within plant premise in consultation with Regional Office, Chhattisgarh Environment Conservation Board, Raigarh.
xi	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied. All necessary facilities were provided during construction for contractual labors.
xii	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 locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied. Advertised in three newspapers Hindustan Times, Dainik bhaskar & Nai Duniya on 28.02.2010.
xiii	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/ representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied. Copy of Environment Clearance has been provided to concerned authority. Previous compliance status updated in company website. http://www.adanipower.com

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xiv	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Complied. We have already established an Environment Management Cell with well qualified staff for implementation of the stipulated environmental safeguards.
xv	The proponent shall upload the status of compliance of the stipulated EC 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, R S P M (PM2.5& PM10), SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Complied. Regular Environmental Monitoring report is being submitted to Regional office, MoEFCC, CPCB and CECB, Chhattisgarh. The environmental parameters display board provided at the main gate of the plant. Previous compliance status was updated on the company website. http://www.adanipower.com
xvi	The environment statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Complied The Environment Statement for the year 2023-24 has been submitted to Chhattisgarh Environment Conservation Board (CECB) vide letter no. APL/Raigarh/ENV/CECB/208/24, dated-20.08.2024. Copy of Environmental statement report is enclosed as Annexure - V .
xvii	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.	Complied. Six monthly Environmental Clearance compliance status reports is regularly submitted to MoEFCC, CPCB and CECB. The same is sent by email also. Last compliance report for the period of October '23 – March'24 had been submitted via our latter no. Ref: APL/REGL/ EMD/MoEFCC/289/05/24 dated-22.05.2024.

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600 (1x600) MW Coal Based Thermal Power Plant

xviii	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six-monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	Complied Previous compliance status updated in company website http://www.adanipower.com . The environmental parameters display board is provided at the mam gate of the Plant.																											
xix	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. This 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.	<p>Being Complied For FY 2024-25 Environmental Protection costs are given below.</p> <table border="1" data-bbox="852 943 1493 1487"> <thead> <tr> <th data-bbox="852 943 932 1048">Sr. No.</th> <th data-bbox="932 943 1257 1048">Activities Description</th> <th data-bbox="1257 943 1493 1048">Actual Expenditure FY 2024-25 (April' 2024 to Sept'2024) (In Lakhs)</th> </tr> </thead> <tbody> <tr> <td data-bbox="852 1048 932 1133">1</td> <td data-bbox="932 1048 1257 1133">Environmental Protection O&M, ESP, Stack, CHP, Silo</td> <td data-bbox="1257 1048 1493 1133">100.18</td> </tr> <tr> <td data-bbox="852 1133 932 1193">2</td> <td data-bbox="932 1133 1257 1193">Environmental Monitoring Cost</td> <td data-bbox="1257 1133 1493 1193">65.13</td> </tr> <tr> <td data-bbox="852 1193 932 1234">3</td> <td data-bbox="932 1193 1257 1234">Legal & consent Fee</td> <td data-bbox="1257 1193 1493 1234">19.98</td> </tr> <tr> <td data-bbox="852 1234 932 1279">4</td> <td data-bbox="932 1234 1257 1279">CSR</td> <td data-bbox="1257 1234 1493 1279">88.69</td> </tr> <tr> <td data-bbox="852 1279 932 1323">5</td> <td data-bbox="932 1279 1257 1323">Fly Ash Management</td> <td data-bbox="1257 1279 1493 1323">888.2</td> </tr> <tr> <td data-bbox="852 1323 932 1368">6</td> <td data-bbox="932 1323 1257 1368">Greenbelt Development</td> <td data-bbox="1257 1323 1493 1368">82.44</td> </tr> <tr> <td data-bbox="852 1368 932 1442">7</td> <td data-bbox="932 1368 1257 1442">Environmental Awareness Training, WED</td> <td data-bbox="1257 1368 1493 1442">3.57</td> </tr> <tr> <td colspan="2" data-bbox="852 1442 1257 1487" style="text-align: center;">Total</td> <td data-bbox="1257 1442 1493 1487" style="text-align: center;">1248.19</td> </tr> </tbody> </table>	Sr. No.	Activities Description	Actual Expenditure FY 2024-25 (April' 2024 to Sept'2024) (In Lakhs)	1	Environmental Protection O&M, ESP, Stack, CHP, Silo	100.18	2	Environmental Monitoring Cost	65.13	3	Legal & consent Fee	19.98	4	CSR	88.69	5	Fly Ash Management	888.2	6	Greenbelt Development	82.44	7	Environmental Awareness Training, WED	3.57	Total		1248.19
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Total		1248.19																											
xx	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Complied.																											

Adani Power Limited, Raigarh
600 (1x600) MW Coal Based Thermal Power Plant

xxi	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 & complied. Full co-operation shall be extended to all concerned authorities.
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Conditions of EC Amendment Letter dated 16.04.2015

i	The coal shall be transported on road through mechanically covered trucks.	Being Complied Coal is being transported through tarpaulin covered vehicles only.
ii	Avenue plantation of 2/3 rows all along the road for transportation of coal shall be carried out by the project proponent at its own expenses in consultation with the State Government Authorities.	Being complied. The joint inspection of coal transportation route has been carried out with by Van Vikas Nigam (Govt. of Chhattisgarh). Agency has given a preliminary proposal for plantation in available avenue of around 10 km out of 50 km. The Proposal is under Scrutiny and finalization for execution.
iii	Periodic maintenance of the roads used for transportation of coal shall be carried out by the project proponent at its own expenses and shall also facilitate the traffic control on the roads in consultation with State Government Authorities.	Noted The proposed coal transportation road has been recently constructed by NHAI, therefore no maintenance is required. Traffic vigilance and controls are provided as and when required by state authorities.

Conditions of further EC Amendment Letter dated 17.07.2020

	Compliance status to the MoEFCC Notification vide letter number S.O. 1561 (E) dated 21st May, 2020 on vide letter number S.O. 1561 (E) dated 21st May, 2020	
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. 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.	Noted & being complied. ESP has been installed with efficiency of 99.9% and Particulate Matter (PM) emission are well within prescribed limits. iv) Washeries, middling and rejects are not applicable for this Thermal Power Plant.

Adani Power Limited, Raigarh
600 (1x600) MW Coal Based Thermal Power Plant

2)	<p>Management of Ash Ponds</p> <p>i) The thermal power plants shall comply with conditions, as notified in the Fly Ash notifications issued from time to time, without being entitled to additional capacity of fly ash pond (for existing power generation capacity) on ground of switching from washed coal to unwashed coal.</p> <p>ii) Appropriate Technology solutions shall be applied to optimize water consumption for Ash management.</p> <p>iii) The segregation of ash may be done at the Electro- Static Precipitator stage, if required, based on site specific conditions, to ensure maximum utilization of fly ash.</p> <p>iv) Subject to 2(i) above, the thermal power plants to dispose fly ash in abandoned or working mines (to be facilitated by mine owner) with environmental safeguards.</p>	<p>i) Noted & being complied. Fly Ash generation and utilization is regularly submitted to CEA, New Delhi. Enclosed as Annexure V.</p> <p>ii) Water requirement is being restricted to 15 MCM. Optimization of water has been incorporated as part of plant design and COC is being maintained more than 5.0.</p> <p>iii) Noted & being complied.</p> <p>iv) Noted & will be complied as & when fly ash is disposed in abandoned or working mines</p>
3)	<p>Transportation</p> <p>i) Coal transportation may be undertaken by covered Railway wagon (railway wagons covered by tarpaulin or other means) and/or covered conveyor beyond the mine area. However, till such time enabling Rail transport/conveyer beyond infrastructure is not available, road transportation may be undertaken in trucks, covered by tarpaulin or other means.</p> <p>ii) It shall be ensured by the thermal power plant that</p> <p>a) Rail siding facility or conveyer facility is set up at or near the power plant, for transportation by rail or conveyer; and</p> <p>b) If transportation by rail or conveyer facility is not available, ensure that the coal is transported out from the Delivery Point of the respective mine in covered trucks (by tarpaulin or other means), or any mechanized closed trucks by roads.</p>	<p>Being Complied</p> <p>i) EC amendment had been granted for the Coal transportation by road, till the time railway line will be constructed/ commission.</p> <p>ii) Currently, we are transporting coal by road in tarpaulin covered truck.</p> <p>a) Coal is being unloaded at Vimla siding nearby Bhudevapur railway station in Raigarh district.</p> <p>b) Coal is being transported by tarpaulin covered truck from off- take site from being supplied Vimla siding as well as other market purchasing.</p>



TEST REPORT



Sample Number : VTL/AA/01

Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2404200006/A
 Format No : 7.8 F-02
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Bade Bhandar
 Sample Collected By : VTL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VTL/RDS/FPS/01
 Coordinates : 21°44'21" & 83°17'21"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 15/04/2024 To 16/04/2024
 Time of Monitoring : 09:00 TO 09:00 Hrs.
 Ambient Temperature (°C) : Min. 25°C Max. 39°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Scope of Monitoring : Regulatory Requirement
 Method of Sampling : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	69.26	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	31.59	µg/m ³	80
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	17.66	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.12	µg/m ³	80

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

End of Report



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 Lab Incharge
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0141-2954638

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Sample Number : VTL/AA/01
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2404200006/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°44'21" & 83°17'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 15/04/2024 To 16/04/2024
Time of Monitoring : 09:00 TO 09:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 39°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02-2022, STP-08	0.55	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1986, Method No.317	*BLO (**LOQ 0.5)	µg/m ³	--

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

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Sample Number : VTL/AA/02
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2404200007/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 15/04/2024 To 16/04/2024
Time of Monitoring : 09:30 TO 09:30 Hrs.
Ambient Temperature (°C) : Min. 18°C Max. 35°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	68.73	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	32.59	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA,2018	16.28	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.08	µg/m ³	80

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

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Sample Number : VTL/AA/02
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2404200007/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 15/04/2024 To 16/04/2024
Time of Monitoring : 09:30 TO 09:30 Hrs.
Ambient Temperature (°C) : Min. 18°C Max. 35°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.70	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	--

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

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Sample Number : VTL/AA/07
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2404200012/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village Kathli
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 21°43'28" & 83°16'26"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/04/2024 To 17/04/2024
Time of Monitoring : 10:40 TO 10:40 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 41°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS 5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	68.9	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	29.1	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	19.3	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.7	µg/m ³	80

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

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Sample Number : VTL/AA/07
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2404200012/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village Kathli
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 21°43'28" & 83°16'25"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/04/2024 To 17/04/2024
Time of Monitoring : 10:40 TO 10:40 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 41°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS -5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.67	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	—


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

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Sample Number : VTL/AA/08
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2404200013/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Amlī Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'33" & 83°18'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/04/2024 To 17/04/2024
Time of Monitoring : 11:30 TO 11:30 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 41°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	66.5	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	31.9	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA 2018	18.7	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.2	µg/m ³	80

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Sample Number : VTL/AA/08
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2404200013/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General information:-
Sampling Location : Amli Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/04/2024 To 17/04/2024
Time of Monitoring : 11:30 TO 11:30 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 41°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.60	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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bd@vibranttechnolab.com
www.vibranttechnolab.com

Sample Number : VTL/AA/08
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2404200017/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Switch Yard
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/05
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 15/04/2024 To 17/04/2024
Time of Monitoring : 13:00 TO 13:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 41°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	68.1	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	29.3	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	19.1	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS.5182 (P- 2)-2001, RA. 2018	11.1	µg/m ³	80

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

End of Report

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Sample Number : VTL/AA/08
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2404200017/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Switch Yard
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/05
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/04/2024 To 17/04/2024
Time of Monitoring : 13:00 TO 13:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 41°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.71	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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Sample Number : VTL/AN/02
Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2404200001/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 27/04/2024
Receipt Date : 20/04/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Chote Bhandar
Instrument Code : VTL/SLM/01
Metereological condition during monitoring : Clear Sky
Date of Monitoring : 15/04/2024 To 16/04/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 18°C Max. 35°C
Surrounding Activity : Human, Vehicular & Plant Act
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.8	42.4

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

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

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

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Sample Number : VTL/AN/01
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2404200002/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 27/04/2024
Receipt Date : 20/04/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Bade Bhandar
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 15/04/2024 To 16/04/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 39°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	51.3	40.7

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

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

1. Day Time is from 6:00 AM to 10:00 PM.

2. Night Time is reckoned between 10:00 PM to 6:00 AM.

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

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

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Sample Number : VTL/AN/06
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2404200006/A
 Format No : 7.8 F-04
 Party Reference No : NIL
 Report Date : 27/04/2024
 Receipt Date : 20/04/2024
 Sampling Duration : 24 Hrs.
 Sample Collected : VTL Team
 Instrument : Calibrated
 Calibration Status

Sample Description : Ambient Noise Level Monitoring
 Scope of Monitoring : Regulatory Requirement
 Protocol Used : IS 9889
 Instrument Used : SLM

General Information:-

Sampling Location : Anli Bhavan
 Instrument Code : VTL/SLM/04
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 16/04/2024 To 17/04/2024
 Time of Monitoring : 06:00 TO 06:00 Hrs.
 Ambient Temperature (°C) : Min. 25°C Max. 41°C
 Surrounding Activity : Human, Vehicular & Plant Act.
 Parameter Required : As per work order
 Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9889 - 1981 RA:2020	49.6	38.9

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

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

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

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Sample Number : VTL/AN/05
Name & Address of the Party : M/s Adani Power Limited
Village- Chhota Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2404200007/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 27/04/2024
Receipt Date : 20/04/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Village - Kathli
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/04/2024 To 17/04/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 41°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.2	41.3

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

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

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

End of Report



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Sample Number : VTL/AN/09
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2404200014/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 27/04/2024
Receipt Date : 20/04/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Switch Yard
Instrument Code : VTL/SLM/05
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 15/04/2024 To 16/04/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 39°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA.2020	62.5	48.7

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

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

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

End of Report



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Sample Number : VTL/S/01
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 486100 Chhattisgarh

Report No. : VTL/S/2404200002/A
Format No : 7.8 F-03
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : TPP
Sample Collected By : VTL Team
Date of Sampling : 15/04/2024
Sampling duration (Minutes) : 33 min. (15:01 to 15:34 hrs.)
Stack attached to : TPP
Make of stack : RCC
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) : 35°C
Temperature of Stack Gases - Ts (°C) : 140°C
Velocity of Stack Gases (m/sec.) : 21.58
Flow rate of PM (LPM) : 30
Flow rate of Gas (LPM) : 2.0
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : --

S.No.	Parameters	Test Method	Results	Units
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	37.52	mg/Nm ³
2	Sulphur Dioxide (SO ₂)	IS: 11255(P- 2): 1985, RA.2019	692.0	mg/Nm ³
3	Oxide of Nitrogen (NO ₂)	IS-11255 (P-7), RA 2017	260.0	mg/Nm ³
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ=0.001)	mg/Nm ³

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

End of Report



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Sample Number : VTL/WW/02

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

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

ULR No. : TC1122724000000744F
Report No. : VTL/WW/2404200011/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 17/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	8.02	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	24	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	20.20	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	79.80	mg/l	250

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

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Sample Number : VTL/WW/03

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

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

ULR No. : TC112272400000745F
Report No. : VTL/WW/2404200012/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 17/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.61	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	23	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 1993, RA: 2019	18.22	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	46.25	mg/l	250

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

End of Report




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Sample Number : VTLWW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272400000746F
Report No. : VTLWW/2404200013/A
Format No : 7 & F-01
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 17/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.42	mg/l	1.0

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

End of Report



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TEST REPORT

Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/WW/2404200013/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 17/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):1988, (stannous Chloride Method) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/l	5

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

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Sample Number : VTL/WW/05

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Boiler Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000000742F
Report No. : VTL/WW/2404200014/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 17/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS. 3025 (P-25):2021	0.49	mg/l	1.0

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

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Sample Number: VTL/FA/01
Name & Address of the Party: M/s Adani Power Limited
 Village - Chhote Bhandar, Post - Bade
 Bandar, Tehsil Pussore, Dist- Raigarh
 496100 (Chhattisgarh)
Sample Description: FLY ASH

Report No.: VT1/FA/2404200001
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 27/04/2024
Period of Analysis: 20/04/2024-
 27/04/2024
Receipt Date: 20/04/2024
Sampling Date: 16/04/2024
Sampling Quantity: 250 gm.

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	BY AAS Method	BLQ	mg/kg
2.	Mercury (as Hg)	BY AAS Method	BLQ	mg/kg
3.	Chromium (as Cr)	BY AAS Method	0.62	mg/kg
4.	Lead (as Pb)	BY AAS Method	0.72	mg/kg
5.	Barium (as Ba)	BY AAS Method	0.37	mg/kg
6.	Cadmium (as Cd)	BY AAS Method	0.69	mg/kg
7.	Cobalt (as Co)	BY AAS Method	0.28	mg/kg
8.	Copper (as Cu)	BY AAS Method	0.55	mg/kg
9.	Fluoride (as F)	BY AAS Method	0.58	mg/kg
10.	Iron (as Fe)	BY AAS Method	0.62	mg/kg
11.	Mercury (as Hg)	BY AAS Method	0.37	mg/kg
12.	Manganese (as Mn)	BY AAS Method	0.29	mg/kg
13.	Nickel (as Ni)	BY AAS Method	0.36	mg/kg
14.	Zinc (as Zn)	BY AAS Method	0.44	mg/kg
15.	Silica (SiO ₂)	IS : 1727: 1967	55.26	%
16.	Ferric Oxide (Fe ₂ O ₃)	IS : 1727: 1967	8.14	%
17.	Alumina Oxide (Al ₂ O ₃)	IS : 1727: 1967	30.24	%
18.	Sulphuric Anhydride (SO ₃)	IS : 1727: 1967	0.38	%
19.	Sodium Oxide	IS : 1727: 1967	0.039	%
20.	Potassium Oxide	IS : 1727: 1967	0.056	%
21.	Calcium Oxide	IS : 1727: 1967	2.98	%
22.	Magnesia (MgO)	IS : 1727: 1967	0.85	%
23.	Titanium Dioxide (TiO ₂)	IS : 1727: 1967	0.07	%
24.	P2O5	IS : 1727: 1967	0.06	%

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Sample Number: VTL/BA/01
Name & Address of the Party: M/s Adani Power Limited
Village - Chhote Bhandar, Post - Bade
Bandar, Tehsil Pussore, Dist- Raigarh
496100 (Chhattisgarh)
Sample Description: Bottom ASH


Report No.: VTL/BA/2404200001
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 27/04/2024
Period of Analysis: 26/04/2024-
27/04/2024
Receipt Date: 20/04/2024
Sampling Date: 16/04/2024
Sampling Quantity: 250 gm.

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	BY AAS Method	BLQ	mg/kg
2.	Mercury (as Hg)	BY AAS Method	BLQ	mg/kg
3.	Chromium (as Cr)	BY AAS Method	5.97	mg/kg
4.	Lead (as Pb)	BY AAS Method	7.88	mg/kg
5.	Barium (as Ba)	BY AAS Method	0.61	mg/kg
6.	Cadmium (as Cd)	BY AAS Method	1.37	mg/kg
7.	Cobalt (as Co)	BY AAS Method	0.28	mg/kg
8.	Copper (as Cu)	BY AAS Method	14.76	mg/kg
9.	Fluoride (as F)	BY AAS Method	0.59	mg/kg
10.	Iron (as Fe)	BY AAS Method	0.74	mg/kg
11.	Mercury (as Hg)	BY AAS Method	0.33	mg/kg
12.	Manganese (as Mn)	BY AAS Method	0.37	mg/kg
13.	Nickel (as Ni)	BY AAS Method	0.32	mg/kg
14.	Zinc (as Zn)	BY AAS Method	0.96	mg/kg
15.	Silica (SiO ₂)	IS: 1727: 1967	56.28	%
16.	Ferric Oxide (Fe ₂ O ₃)	IS: 1727: 1967	5.21	%
17.	Alumina Oxide (Al ₂ O ₃)	IS: 1727: 1967	31.43	%
18.	Sulphuric Anhydride (SO ₃)	IS: 1727: 1967	0.28	%
19.	Sodium Oxide	IS: 1727: 1967	0.26	%
20.	Potassium Oxide	IS: 1727: 1967	0.25	%
21.	Calcium Oxide	IS: 1727: 1967	3.41	%
22.	Magnesia (MgO)	IS: 1727: 1967	0.79	%
23.	Titanium Dioxide (TiO ₂)	IS: 1727: 1967	0.26	%
24.	P205	IS: 1727: 1967	0.28	%


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Sample Number: VTL/WL/01 Report No.: VTL/WL/2404200001-03
Name & Address of the Party: M/s Adani Power Limited Format No.: 7.8 F-01
Village - Chhote Bhandar, Post - Bade Party Reference No.: NIL
Bandar, Tehsil Pussore, Dist- Raigarh Report Date: 27/04/2024
496100 (Chhattisgarh) Receipt Date: 20/04/2024
Date of Monitoring 17/04/2024

Sample Collected By: VTL Team
Sample Description: Ground Water Level Monitoring

S.No.	Location	Depth (In meter)
1.	Piezometer Well No.- 02	1.65
2.	Piezometer Well No.- 03	2.36
3.	Piezometer Well No.- 04	4.58


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Sample Number : VTL/W/01
Name & Address of the Party : M/s Adani Power Limited
 Village- Chhole Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Amli Bhavan
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC-1122724000000526F
Report No. : VTLW/2404200209/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 17/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.86	—	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	200.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	69.82	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	201.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1986, RA 2019	128.50	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	23.51	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	587.0	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	38.24	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition, 4500FD 2017	0.55	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	21.73	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.31	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	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113 B, 2017	0.37	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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ULR No. : TC112272400000526F

Sample Number : VTLW/01

Report No. : VTLW/2404200009/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 30300, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
23	Ammonia (as N)	IS-3025 (P-34)- 1988, Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

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Sample Number : VTL/W/01
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bede Bhandar,
 Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/W/2404200009/E
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 17/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr
 Coordinates : NA

Sample Description : Water Sample
 Sampling Location : Amli Bhavan
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

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

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

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Sample Number : VTL/W/02
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Village - Kattil
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC-1122724000000927F
Report No. : VTL/W/2404200010/A
Format No. : 7.8 F-01
Party Reference No. : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 17/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.61	--	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	168.0	mg/l	200	500
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	51.50	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1985, RA 2019	148.0	mg/l	200	500
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	110.21	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	9.60	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	530.0	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1988, RA 2022	29.41	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD .2017	0.46	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	20.18	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.28	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	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C 2017	*BLQ>(*LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	9.40	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ>(*LOQ-0.02)	mg/l	0.05	1.5



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ULR No. : TC112272400000627F

Sample Number : VTLW/02

Report No. : VTLW/2404200010/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
23	Ammonia (as N)	IS-3025 (P-34)-1988 Sec RA -2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29)-1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26)-2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

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Sample Number : VTL/W/02
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 498100 Chhattisgarh

Report No. : VTL/W/2404200310/B
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 17/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr.
 Coordinates : NA

Sample Description : Water Sample
 Sampling Location : Village - Kathil
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

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

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

End of Report



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Sample Number : VTL/W/03
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

ULR No. : TG1122724000000528F
Report No. : VTL/W/2404250011/A
Format No. : 7.6 F-01
Party Reference No. : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 17/04/2024
Sampling Type : Grab
Sample Quantity : 2 Lit
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.67	--	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	280.0	mg/l	200	500
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	65.81	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	200.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	149.58	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	12.10	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	752.0	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	44.12	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD, 2017	0.54	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	27.56	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.32	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	0.3
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.43	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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ULR No. : TC112272400000528F

Sample Number : VTL/W/03

Report No. : VTL/W/2404200011/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
21	Total Coliform	IS : 15185 : 2015	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
22	E.Coli	IS : 15185 : 2015	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
23	Ammonia (as N)	IS-3025 (P-34)- 1988, Sec. RA 2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) : 1988 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26) 2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

End of Report



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Vibrant Techno Lab Pvt. Ltd.

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0141-2954638

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Sample Number : VTL/W/03
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist- Raigarh 495100 Chhattisgarh

Sample Description : Water Sample
 Sampling Location : Chote Bhandar
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTL/W/24D4200011/B
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 17/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr
 Coordinates : NA


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

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



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Sample Number : VTL/W/04
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
 Sampling Location : Bade Bhandar
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

ULR No. : TC112272400000629F
 Report No. : VTL/W/2404200012/A
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 17/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr.
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.69	—	8.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10):1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	249.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	66.72	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	184.34	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	171.52	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	20.05	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	655.0	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	36.28	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.62	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34)-1988	22.59	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.27	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	Phenolic Compounds (GBH5OH)	APHA 23rd Edition 5530C-2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.45	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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ULR No. : TC112272400000629F

Sample Number : VTL/W/04

Report No. : VTL/W/2404200012/A

S.No.	Test Parameters	Test Method	Results	Units	IS-10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	---
22	E Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	---
23	Ammonia (as N)	IS-3025 (P-34)- 1988, Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) -1996 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

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Sample Number : VTLW/04
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100, Chhattisgarh

Report No. : VTLW/2404200012/B
 Format No : 7.6 F-01
 Party Reference No. : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 17/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr
 Coordinates : NA

Sample Description : Water Sample
 Sampling Location : Bade Bhandar
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2016	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-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

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Sample Number : VTLW/10
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
 Sampling Location : Ash Pond
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTLW/2404200018/IS
 Format No : 7 8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 17/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-5.0)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1986, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

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Sample Number : VTL/W/11
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 495100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Piezometer -4
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272400000636F
Report No. : VTL/W/2404200019/A
Format No : 7.6 F.01
Party Reference No : Nil
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 17/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.89	---	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	66.24	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	159.21	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	152.38	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	22.53	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	635.0	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	40.30	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD 2017	0.62	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	23.18	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition 3111B,2017	0.46	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	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.64	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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ULR No. : TC112272400000636F

Sample Number : VTL/W/11

Report No. : VTL/W/2404203019/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	**
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
23	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) 1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

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Sample Number : VTL/W/11
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 498100 Chhattisgarh

Report No. : VTLW/2404200019/B
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 17/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr
 Coordinates : NA

Sample Description : Water Sample
 Sampling Location : Piezometer -4
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

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

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

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Sample Number : VTLW/12
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
 Sampling Location : Piezometer -3
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

ULR No : TC-1122724000000637F
 Report No. : VTLW/2404200020/A
 Format No : 7/8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 17/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Lit.
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.70	—	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	284.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40) : 1991 RA 2019	68.84	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1986, RA 2019	169.22	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	147.0	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	27.27	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	832.0	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	40.78	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition 4500FD, 2017	0.60	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	26.63	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.39	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	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113 B, 2017	0.65	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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ULR No. : TC/112272400000637F

Sample Number : VTLW/12

Report No. : VTLW/2404200020/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
23	Ammonia (as N)	IS-3025 (P-34)- 1986,Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) : 1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

End of Report



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Sample Number : VTL/W/12
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
 Sampling Location : Piezometer -3
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTL/W/2404200020/B
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 17/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr.
 Coordinates : NA

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

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

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Sample Number : VTL/W/13
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Piezometer -2
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000000638F
Report No. : VTL/W/2404200021/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 17/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.97	—	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	323.0	mg/l	200	600
4	Calcium (as Ca)	IS :3025 (P- 40): 1991 RA 2019	73.56	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 1996, RA 2019	172.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1998, RA 2019	147.62	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	33.89	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	687.0	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): 1986, RA 2022	46.28	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD ,2017	0.67	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	25.77	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.44	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	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.61	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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ULR No. : TC112272400000638F

Sample Number: VTLW/13

Report No. : VTLW/2404200021/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
23	Ammonia (as N)	IS-3025 (P-34)- 1988, Sec. RA 2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) :1988 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

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Sample Number : VTLW/13
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhota Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTLW/2404200021/E
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 17/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Lt.
 Coordinates : NA

Sample Description : Water Sample
 Sampling Location : Piezometer -2
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS -3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025(P-4)1983, -RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	---	Agreeable	Agreeable
3	Taste	IS :3025 (P-6): 1984 RA 2017	Agreeable	---	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540G 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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Sample Number : VTL/SW/01
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
 Sampling Location : Mahanadi Up Stream
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

ULR No. : TC112272400000644F
 Report No. : VTL/W/2404200022/A
 Format No : Z-B-F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 16/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.44	-
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	4.5	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	405.0	mg/l
4	Chloride (as Cl)	IS : 3025 (P-32) : 1988, RA 2019	69.26	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986,Sec.RA 2022	35.46	mg/l
6	Total Alkalinity (as CaCO3)	IS. 3025 (P- 23) : 1986, RA 2019	142.34	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	162.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	36.05	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	17.50	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.62	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	25.69	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Faecal Coliform	IS:1622 :2009	Present	MPN/100ml
14	Total Coliform	IS 15185, 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.40	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.57	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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TEST REPORT



Sample Number : VTL/SW/01

ULR No. : TC112272400000544F

Report No. : VTLW/2404200022/A

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

End of Report



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Sample Number : VTL/SW/01
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhole Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
 Sampling Location : Mahanadi Up Stream
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTL/W/2404200022/B
 Format No : 7.8.F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 16/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) : 2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1986, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report

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Sample Number : VTL/SW/02
Name & Address of the Party : M/s Adani Power Limited
 Village- Chhole Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mahanadi Down Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272400000645F
Report No. : VTL/W/2404200023/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 16/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.55	-
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	5.2	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	582.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	76.25	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec RA 2022	41.35	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA 2019	154.28	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	183.29	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	41.53	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	19.36	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.69	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	31.24	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS 1622 : 2009	Present	MPN/100ml
14	Total Coliform	IS 15185 : 2016	Present	A.P/100ml
15	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.46	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D, 3113B, 2017	0.86	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P.A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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TEST REPORT



Sample Number : VTL/SW/02

ULR No. : TC112272400000645F

Report No. : VTLW/2404200023/A

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

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Sample Number : VTL/SW/02
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
 Sampling Location : Mahanadi Down-Stream
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTLW/2404200023/B
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 16/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

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Sample Number : VTL/SW/03
Name & Address of the Party : M/s Adani Power Limited
Village- Chhole Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mand River Up Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272400000646F
Report No. : VTLW/2404200024/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 27/04/2024
Period of Analysis : 20/04/2024-27/04/2024
Receipt Date : 20/04/2024
Sampling Date : 16/04/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.73	-
2	Turbidity	IS : 3025 (P- 10) : 1984, RA 2017	2.9	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA 2017	315.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	45.24	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1988, Sec RA 2022	23.83	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA 2019	86.29	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	133.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	38.57	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA 2019	8.93	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.41	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	23.01	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS: 1622 : 2009	Present	MPN/100ml
14	Total Coliform	IS 15185 : 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition 3111B, 2017	0.27	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.40	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ml
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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Lab Incharge
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TEST REPORT



Sample Number : VTL/SW/03

ULR No. : TC112272400000646F
Report No. : VTLAW/2404200024/A

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

End of Report



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Sample Number : VTUSW/03
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist. - Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
 Sampling Location : Mand River Up Stream
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTL/W/2404200024/B
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 16/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report



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Sample Number : VTL/SW/04
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bada Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mand River Down Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TG112272400000647F
Report No. : VTLW/2404200025/A
Format No. : 7.8 F-01
Party Reference No. : NIL
Report Date : 27/04/2024
Period of Analysis : 26/04/2024-27/04/2024
Receipt Date : 26/04/2024
Sampling Date : 16/04/2024
Sampling Type : Grab
Sample Quantity : 2 Lit
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.76	-
2	Turbidity	IS : 3025 (P- 10) : 1984, RA : 2017	5.1	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 1984, RA : 2017	440.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1986, RA : 2018	70.21	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : 1986, Sec.RA : 2022	37.29	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 1986, RA : 2019	119.81	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA : 2019	198.67	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA : 2019	53.28	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 1994, RA : 2019	15.97	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.85	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA : 2022	31.12	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1622 : 2009	Present	MPN/100ml
14	Total Coliform	IS 15185 : 2016	Present	A/P/100ml
15	Iron (as Fe)	APHA 23rd Edition, 3111B, 2017	0.38	mg/l
16	Zinc (as Zn)	APHA: 23rd Edition, 3030D, 3113B, 2017	0.61	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS : 15185 : 2016	Present	P-A/100 ml
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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Lab Incharge
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TEST REPORT



Sample Number : VTL/SW/04

ULR No. : TC1122724000000647F
Report No. : VTL/W/2404200025/A

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

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Sample Number : VTL/SW/04
 Name & Address of the Party : Ms Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
 Sampling Location : Mand River Down Stream
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

Report No. : VTL/W/2404200025/B
 Format No : 7.8-F-01
 Party Reference No : NIL
 Report Date : 27/04/2024
 Period of Analysis : 20/04/2024-27/04/2024
 Receipt Date : 20/04/2024
 Sampling Date : 16/04/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) : 1984 RA 2017	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) : 2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-65) : 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH ₃)	IS : 3025 (P-34) : 1988, Sec.4 RA : 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017: 5530C	*BLQ(**LOQ 0.05)	mg/l

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

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Sample Number : VTL/AA/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2405240001/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 21°44'21" & 83°17'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 10:00 TO 10:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	70.85	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	32.56	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	18.41	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	10.24	µg/m³	80

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

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Sample Number : VTL/AA/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 498100 Chhattisgarh

Report No. : VTL/A/2405240001/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 21°44'21" & 83°17'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 10:00 TO 10:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.65	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	--

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

End of Report



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Sample Number : VTL/AA/02
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2405240002/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 09:30 TO 09:30 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	71.29	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	34.56	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	19.25	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	12.85	µg/m ³	80

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

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TEST REPORT

Sample Number : VTL/AA/02
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2405240002/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 09:30 TO 09:30 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.76	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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Sample Number : VTL/AA/07
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2405240006/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village Kathli
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 21°43'28" & 83°16'26"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 10:30 TO 10:30 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	65.98	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	30.45	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	20.85	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.48	µg/m³	80

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

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Sample Number : VTL/AA/07

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2405240008/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Village Kathli
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 21°43'28" & 83°16'26"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 10:30 TO 10:30 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.72	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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TEST REPORT



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Sample Number : VTL/AA/08

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2405240007/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village- Amla Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 11:00 TO 11:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	67.95	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	32.45	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	19.36	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	12.45	µg/m³	80

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

Sample Number : VTL/AA/08

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2405240007/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village- Amlil Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 11:00 TO 11:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.67	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	--

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

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TEST REPORT



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Sample Number : VTL/AN/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2405240001/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 29/05/2024
Receipt Date : 24/05/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Chote Bhandar
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA-2020	54.1	41.7

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

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

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

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

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

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

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Sample Number : VTL/AN/01
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2405240002/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 29/05/2024
Receipt Date : 24/05/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Bade Bhandar
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

Table with 4 columns: S.No., Test Parameters, Protocol, Test Result dB(A) (Day Time, Night Time). Row 1: 1, Leq, IS 9989 - 1981 RA:2020, 52.4, 41.1

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

Table with 4 columns: Area Code, Category of Area/Zone, Limits in dB(A) Leq* (Day Time, Night Time). Rows A-D: Industrial area (75, 70), Commercial area (65, 55), Residential area (55, 45), Silence Zone (50, 40)

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

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Sample Number : VTL/AN/06
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2405240003/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 29/05/2024
Receipt Date : 24/05/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Village- Amla Bhavan
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	50.2	39.4

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

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

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

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Sample Number : VTL/AN/05
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2405240007/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 29/05/2024
Receipt Date : 24/05/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Village - Kathli
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	54.2	42.1

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

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

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

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Sample Number : VTL/AN/09
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2405240010/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 29/05/2024
Receipt Date : 24/05/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Switch Yard
Instrument Code : VTL/SLM/05
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/05/2024 To 22/05/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 42°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA-2020	63.5	49.8

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

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

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

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Sample Number : VTL/S/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/S/2405240001
Format No : 7.8 F-03
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : TPP
Sample Collected By : VTL Team
Date of Sampling : 20/05/2024
Sampling duration (Minutes) : 26 min. (16:14 to 16:40 hrs.)
Stack attached to : TPP
Make of stack : RCC
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) : 40°C
Temperature of Stack Gases - Ts (°C) : 126°C
Velocity of Stack Gases (m/sec.) : 26.56
Flow rate of PM (LPM) : 38
Flow rate of Gas (LPM) : 2.0
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : --

S.No.	Parameters	Test Method	Results	Units
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	36.95	mg/Nm3
2	Sulphur Dioxide (SO2)	IS: 11255(P- 2): 1985, RA. 2019	685.0	mg/Nm3
3	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017	272.0	mg/Nm3
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-0.001)	mg/Nm3

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

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Sample Number : VTL/WW/02

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

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

ULR No. : TC1122724000000852F
Report No. : VTL/WW/2405240002/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024
Sampling Date : 22/05/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	8.09	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	25.0	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	18.50	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2023	72.00	mg/l	250

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

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Sample Number : VTL/WW/03

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

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

ULR No. : TC112272400000853F
Report No. : VTL/WW/2405240003/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024
Sampling Date : 22/05/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.68	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	26.0	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	16.50	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2023	42.00	mg/l	250

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

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Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272400000854F
Report No. : VTL/WW/2405240004/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024
Sampling Date : 22/05/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.40	mg/l	1.0

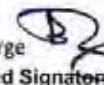
*BLQ-Below Limit OF Quantification, **LOQ- Limit Of Quantification

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TEST REPORT

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Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/WW/2405240004/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024
Sampling Date : 22/05/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):2022, (stannous Chloride Method) Sec.1	*BLQ(**LOQ-0.2)	mg/l	5

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

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Sample Number : VTL/WW/05

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Boiler Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272400000855F
Report No. : VTL/WW/2405240005/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024
Sampling Date : 22/05/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.46	mg/l	1.0

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

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TEST REPORT

Sample Number : VTL/WW/05

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Boiler Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/WW/2405240005/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 29/05/2024
Period of Analysis : 24/05/2024-29/05/2024
Receipt Date : 24/05/2024
Sampling Date : 22/05/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):2022, (stannous Chloride Method) Sec.1	*BLQ(**LOQ-0.2)	mg/l	5

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

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TEST REPORT

Sample Number:
Name & Address of the Party:

VTL/WL/01
M/s Adani Power Limited
Village - Chhote Bhandar, Post - Bade
Bandar, Tehsil Pussore, Dist- Raigarh
496100 (Chhattisgarh)

Report No.: VTL/WL/2405240001-03
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 29/05/2024
Receipt Date: 24/05/2024
Date of Monitoring: 22/05/2024

Sample Collected By
Sample Description:

VTL Team
Ground Water Level Monitoring

S.No.	Location	Depth (In meter)
1.	Piezometer Well No.- 02	2.67
2.	Piezometer Well No.- 03	3.73
3.	Piezometer Well No.- 04	4.61

(Checked By)



RK Yadav
Lab Incharge
(Authorized Signatory)

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Sample Number : VTL/AA/01
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407010001/A
 Format No : 7.8 F-02
 Party Reference No : NIL
 Report Date : 04/07/2024
 Period of Analysis : 01/07/2024-04/07/2024
 Receipt Date : 01/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
 Sampling Location : Bade Bhandar
 Sample Collected By : VTL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VTL/RDS/FPS/03
 Coordinates : 21°44'21" & 83°17'21"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 27/06/2024 To 28/06/2024
 Time of Monitoring : 11:00 TO 11:00 Hrs.
 Ambient Temperature (°C) : Min. 26°C Max. 32°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Scope of Monitoring : Regulatory Requirement
 Method of Sampling : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	73.48	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	34.16	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA. 2018	19.26	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.82	µg/m ³	80

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

End of Report

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TEST REPORT

Sample Number : VTL/AA/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407010001/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTLRDS/FPS/03
Coordinates : 21°44'21" & 83°17'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 27/06/2024 To 28/06/2024
Time of Monitoring : 11:00 TO 11.00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS -5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02.2022, STP-08	0.68	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No 317	*BLQ (**LOQ 0.5)	µg/m ³	—

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

End of Report



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Sample Number : VTL/AA/02
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407010002/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Chole Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 29/06/2024 To 30/06/2024
Time of Monitoring : 10:30 TO 10:30 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS 5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA, 2017	74.35	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	35.64	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA, 2018	20.18	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS 5182 (P- 2)-2001, RA, 2018	13.52	µg/m ³	80

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

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TEST REPORT



Sample Number : VTL/AA/02

Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407010002/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 29/06/2024 To 30/06/2024
Time of Monitoring : 10:30 TO 10:30 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.81	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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Sample Number : VTL/AA/07
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTLA/2407010006/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village Kathli
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'28" & 83°16'26"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 29/06/2024 To 30/06/2024
Time of Monitoring : 10:00 TO 10:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	69.14	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	32.28	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	22.72	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	12.55	µg/m ³	80

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

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TEST REPORT



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Sample Number : VTL/AA/07

Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407010006/B
 Format No : 7 8 F-02
 Party Reference No : NIL
 Report Date : 04/07/2024
 Period of Analysis : 01/07/2024-04/07/2024
 Receipt Date : 01/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Village Kathli
 Sample Collected By : VTL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VTL/RDS/FPS/04
 Coordinates : 21°43'28" & 83°16'26"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 29/06/2024 To 30/06/2024
 Time of Monitoring : 10:00 TO 10:00 Hrs.
 Ambient Temperature (°C) : Min. 26°C Max. 32°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Scope of Monitoring : Regulatory Requirement
 Method of Sampling : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02-2022, STP-08	0.76	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	--

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

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Sample Number : VTL/AA/08
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407010007/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village- Amli Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 29/06/2024 To 30/06/2024
Time of Monitoring : 11:30 TO 11:30 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	69.76	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	34.14	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA. 2018	20.88	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	13.32	µg/m ³	80

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

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Sample Number : VTL/AA/08
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407010007/B
 Format No : 7.8 F-02
 Party Reference No : NIL
 Report Date : 04/07/2024
 Period of Analysis : 01/07/2024-04/07/2024
 Receipt Date : 01/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
 Sampling Location : Village- Amlil Bhavan
 Sample Collected By : VTL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VTL/RDS/FPS/04
 Coordinates : 21°43'33" & 83°16'6"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 29/06/2024 To 30/06/2024
 Time of Monitoring : 11:30 TO 11:30 Hrs.
 Ambient Temperature (°C) : Min. 26°C Max. 32°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Scope of Monitoring : Regulatory Requirement
 Method of Sampling : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.73	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

End of Report

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Sample Number : VTL/AN/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2407010001/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 04/07/2024
Receipt Date : 01/07/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Chote Bhandar
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 29/06/2024 To 30/06/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA, 2020	55.4	42.6

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

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

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

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

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

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

End of Report



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Lab Incharge
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Sample Number : VTL/AN/01
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist. - Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2407010002/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 04/07/2024
Receipt Date : 01/07/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Bade Bhandar
Instrument Code : VTL/SLM02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 29/06/2024 To 30/06/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.6	42.3

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

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

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

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

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

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

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Sample Number : VTL/AN/06

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2407010003/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 04/07/2024
Receipt Date : 01/07/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Village- Amli Bhavan
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 29/06/2024 To 30/06/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA-2020	51.6	40.1

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

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

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

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

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

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

End of Report



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TEST REPORT



Sample Number : VTL/AN/05

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2407010007/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 04/07/2024
Receipt Date : 01/07/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument Calibration Status : Calibrated

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

General Information:-

Sampling Location : Village - Kathli
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 29/06/2024 To 30/06/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	55.8	43.5

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

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

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

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

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

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

End of Report



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TEST REPORT



Sample Number : VTL/S/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/S/2407010001/A
Format No : 7.8 F-03
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : TPP
Sample Collected By : VTL Team
Date of Sampling : 28/06/2024
Sampling duration (Minutes) : 22 min. (16:20 to 16:42 hrs.)
Stack attached to : TPP
Make of stack : RCC
Diameter of stack(m) : 7.5 m
Height of stack(m) : 275 m
Instrument calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 30°C
Temperature of Stack Gases - Ts (°C) : 126°C
Velocity of Stack Gases (m/sec.) : 32.46
Flow rate of PM (LPM) : 46
Flow rate of Gas (LPM) : 2.0
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : -

S.No.	Parameters	Test Method	Results	Units
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	38.14	mg/Nm3
2	Sulphur Dioxide (SO2)	IS: 11255(P-2): 1985, RA 2019	702	mg/Nm3
3	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017	288.0	mg/Nm3
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-0.001)	mg/Nm3

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

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TEST REPORT

VIBRANT
"Exp Sample Number 01"

Name & Address of the Party:

VTL/BA/01
M/s Adani Power Limited
Village - Chhote Bhandar, Post - Bade
Bandar, Tehsil Pussore, Dist- Raigarh
496100 (Chhattisgarh)

Report No.: VTL/BA/2407010001
Format No.: 7.8 F-01

Party Reference No.: NIL
Report Date: 04/07/2024
Period of Analysis: 01-04/07/2024
Receipt Date: 01/07/2024
Sampling Date: 29/06/2024
Sampling Quantity: 250 gm.

Sample Description:

Bottom ASH

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	BY AAS Method	BLQ	mg/kg
2.	Mercury (as Hg)	BY AAS Method	BLQ	mg/kg
3.	Chromium (as Cr)	BY AAS Method	5.98	mg/kg
4.	Lead (as Pb)	BY AAS Method	7.83	mg/kg
5.	Barium (as Ba)	BY AAS Method	0.65	mg/kg
6.	Cadmium (as Cd)	BY AAS Method	1.42	mg/kg
7.	Cobalt (as Co)	BY AAS Method	0.22	mg/kg
8.	Copper (as Cu)	BY AAS Method	14.61	mg/kg
9.	Fluoride (as F)	BY Spectrophotometric Method	0.63	mg/kg
10.	Iron (as Fe)	BY AAS Method	0.75	mg/kg
11.	Mercury (as Hg)	BY AAS Method	0.32	mg/kg
12.	Manganese (as Mn)	BY AAS Method	0.34	mg/kg
13.	Nickel (as Ni)	BY AAS Method	0.29	mg/kg
14.	Zinc (as Zn)	BY AAS Method	0.94	mg/kg
15.	Silica (SiO ₂)	IS : 1727: 1967	55.39	%
16.	Ferric Oxide (Fe ₂ O ₃)	IS : 1727: 1967	5.22	%
17.	Alumina Oxide (Al ₂ O ₃)	IS : 1727: 1967	32.41	%
18.	Sulphuric Anhydride (SO ₃)	IS : 1727: 1967	0.26	%
19.	Sodium Oxide	IS : 1727: 1967	0.25	%
20.	Potassium Oxide	IS : 1727: 1967	0.27	%
21.	Calcium Oxide	IS : 1727: 1967	3.53	%
22.	Magnesia (MgO)	IS : 1727: 1967	0.75	%
23.	Titanium Dioxide (TiO ₂)	IS : 1727: 1967	0.22	%
24.	P2O5	IS : 1727: 1967	0.25	%

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TEST REPORT

VIBRANT

"Example Number"

Name & Address of the Party:

VTL/FA/01
M/s Adani Power Limited
Village -Chhote Bhandar,Post - Bade
Bandar, Tehsil Pussore, Dist- Raigarh
496100 (Chhattisgarh)

Sample Description:

FLY ASH

Report No.: VTL/FA/2407010001
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 04/07/2024
Period of Analysis: 01-04/07/2024
Receipt Date: 01/07/2024
Sampling Date: 29/06/2024
Sampling Quantity: 250 gm.

S. No.	Parameter	Test-Method	Results	Unit
1.	Arsenic (as As)	BY AAS Method	BLQ	mg/kg
2.	Mercury (as Hg)	BY AAS Method	BLQ	mg/kg
3.	Chromium (as Cr)	BY AAS Method	0.64	mg/kg
4.	Lead (as Pb)	BY AAS Method	0.77	mg/kg
5.	Barium (as Ba)	BY AAS Method	0.30	mg/kg
6.	Cadmium (as Cd)	BY AAS Method	0.67	mg/kg
7.	Cobalt (as Co)	BY AAS Method	0.31	mg/kg
8.	Copper (as Cu)	BY AAS Method	0.51	mg/kg
9.	Fluoride (as F)	BY Spectrophotometric Method	0.58	mg/kg
10.	Iron (as Fe)	BY AAS Method	0.62	mg/kg
11.	Mercury (as Hg)	BY AAS Method	0.30	mg/kg
12.	Manganese (as Mn)	BY AAS Method	0.27	mg/kg
13.	Nickel (as Ni)	BY AAS Method	0.36	mg/kg
14.	Zinc (as Zn)	BY AAS Method	0.47	mg/kg
15.	Silica (SiO ₂)	IS : 1727: 1967	56.88	%
16.	Ferric Oxide (Fe ₂ O ₃)	IS : 1727: 1967	7.96	%
17.	Alumina Oxide (Al ₂ O ₃)	IS : 1727: 1967	29.14	%
18.	Sulphuric Anhydride (SO ₃)	IS : 1727: 1967	0.37	%
19.	Sodium Oxide	IS : 1727: 1967	0.039	%
20.	Potassium Oxide	IS : 1727: 1967	0.057	%
21.	Calcium Oxide	IS : 1727: 1967	3.13	%
22.	Magnesia (MgO)	IS : 1727: 1967	0.86	%
23.	Titanium Dioxide (TiO ₂)	IS : 1727: 1967	0.08	%
24.	P2O5	IS : 1727: 1967	0.06	%

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Sample Number : VTL/WW/02

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 498100 Chhattisgarh

Name & Address of the Party :

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

ULR No. : TC112272400001190F
Report No. : VTL/WW/2407010002/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	8.15	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	26.0	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	19.42	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2023	75.0	mg/l	250

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

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Sample Number : VTL/WW/03

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

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

ULR No. : TC1122724000001191F
Report No. : VTL/WW/2407010003/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.74	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	28	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	17.80	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2023	44.0	mg/l	250

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

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Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist. - Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272400001192F
Report No. : VTL/WW/2407010004/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.44	mg/l	1.0

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

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Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/WW/2407010004/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):2022. (stannous Chloride Method) Sec.1	*BLQ(**LOQ-0.2)	mg/l	5

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

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Sample Number : VTL/WW/06

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Boiler Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000001193F
Report No. : VTL/WW/2407010005/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.49	mg/l	1.0

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

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TEST REPORT

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Sample Number : VTL/WW/05

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist. - Raigarh 496100 Chhattisgarh

Report No. : VTL/WW/2407010005/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Name & Address of the Party :

Sample Description : **Waste Water**
Sampling Location : Boiler Blow Down
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):2022, (stannous Chloride Method) Sec.1	*BLQ(**LOQ-0.2)	mg/l	5

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

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VIBRANT

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Sample Number:

Name & Address of the Party:

VTL/WL/01
M/s Adani Power Limited
Village - Chhote Bhandar, Post - Bade
Bandar, Tehsil Pussore, Dist- Raigarh
496100 (Chhattisgarh)

Report No.: VTL/WL/2407010001-03
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 04/07/2024
Receipt Date: 01/07/2024
Date of Monitoring: 29/07/2024

Sample Collected By
Sample Description:

VTL Team
Ground Water Level Monitoring

S.No.	Location	Depth (In meter)
1.	Piezometer Well No.- 02	2.35
2.	Piezometer Well No.- 03	2.49
3.	Piezometer Well No.- 04	3.65

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Sample Number : VTLW/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Village- Amlı Bhavan
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000001194F
Report No. : VTLW/2407010001/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.67	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10) : 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	201	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	55.24	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 2023	208	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	129	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	15.35	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	530	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec.-1 2022	33.8	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.56	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	22.3	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.35	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	2.4
15	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.44	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



VIBRANT

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Sample Number : VTLW/01

ULR No. : TC1122724000001194F

Report No. : VTLW/2407010001/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1988, Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

End of Report



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TEST REPORT

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Sample Number : VTLW/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 498100 Chhattisgarh

Report No. : VTLW/2407010001/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 04/07/2024

Period of Analysis : 01/07/2024-04/07/2024

Receipt Date : 01/07/2024

Sampling Date : 28/06/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : NA

Sample Description : Water Sample
Sampling Location : Village- Amla Bhavan
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025-(P-4) 2021	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	1.0	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

End of Report

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Sample Number : VTLW/02
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

ULR No. : TC1122724000001195F
Report No. : VTLW/2407010002/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Village - Kathli
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.67	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2008, RA 2019	180	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	54.76	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 2023	169	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	122	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	10.53	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	512	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): sec.-1 2022	33.18	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD-2017	0.44	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	24.76	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.28	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	2.4
15	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.40	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



ULR No. : TC1122724000001195F

Report No. : VTLW/2407010002/A

Sample Number : VTLW/02

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) -1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26).2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

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Sample Number : VTLW/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/W/2407010002/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Village - Kathli
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)2023	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 2023	Agreeable	-	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	1.0	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

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Sample Number : VTL/W/03
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

ULR No. : TC1122724000001196F
Report No. : VTL/W/2407010003/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/08/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.58	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10) 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	219	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	56.18	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 2023	199	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	130	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	19.15	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	532	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24). Sec.-1 2022	35.64	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.47	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	21.55	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.35	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	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.48	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



Sample Number : VTLW/03

ULR No. : TC1122724000001195F

Report No. : VTLW/2407010003/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
23	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

End of Report

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TEST REPORT

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Sample Number : VTLW/03

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTLW/2407010003/B

Format No : 7 8 F-01

Party Reference No : NIL

Report Date : 04/07/2024

Period of Analysis : 01/07/2024-04/07/2024

Receipt Date : 01/07/2024

Sampling Date : 28/06/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : NA

Sample Description : Water Sample
Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4) 2023	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

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TEST REPORT



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Sample Number : VTLW/04

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 498100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000001197F
Report No. : VTLW/2407010004/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.79	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10) 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	274	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	70.18	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 2023	210	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	171	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	24.03	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	580	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): Sec.-1 2022	34.52	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.56	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	22.7	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.25	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	2.4
15	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.44	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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Sample Number : VTL/W/04

ULR No. : TC1122724000001197F

Report No. : VTL/W/2407010004/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	E Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1986,Sec. RA -2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
26	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

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

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TEST REPORT

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Sample Number : VTLW/04

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTLW/2407010004/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 04/07/2024

Period of Analysis : 01/07/2024-04/07/2024

Receipt Date : 01/07/2024

Sampling Date : 28/06/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : NA

Sample Description : Water Sample
Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)2023	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	1.0	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

End of Report

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Sample Number : VTLW/10
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist. - Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Ash Pond
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000001206F
Report No. : VTLW/2407010009/A
Format No : 7.0 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units
1	pH value	IS : 3025 (P-11) : 2022	7.70	--
2	Turbidity	IS : 3025 (P- 10) : 2023	5.8	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	330	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	62.8	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : Sec.-1 2022	32.54	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 2023	112	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	186	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	45.18	mg/l
9	Magnesium (as Mg)	IS / 3025 (P- 46) : 1994, RA 2019	17.81	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.49	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	21.95	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1622 :2009	21	MPN/100 ml
14	Total Coliform	IS 15185; 2016	Present	A-P/100 ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.31	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.52	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ml
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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Sample Number : VTLW/10

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

TEST REPORT



ULR No. : TC1122724000001206F

Report No. : VTLW/2407010009/A

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TEST REPORT

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Sample Number : VTLW/10

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Ash Pond
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2407010009/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	--
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report



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Sample Number : VTLW/13

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Piezometer -2
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000001207F
Report No. : VTLW/2407010010/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	8.11	-	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10) 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	364	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	78.82	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 2023	205	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	169.4	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	40.66	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	660	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): Sec.-1 2022	53.62	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD 2017	0.27	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	30.15	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.45	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	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.68	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



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Sample Number : VTLW/13

ULR No. : TC112272400001207F

Report No. : VTLW/2407010010/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA 2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
26	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

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

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TEST REPORT

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Sample Number : VTLW/13

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist. - Raigarh 496100 Chhattisgarh

Report No. : VTLW/2407010010/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Piezometer -2
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 2023	Agreeable	-	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

End of Report

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TEST REPORT

TC-11227

Sample Number : VTLW/12
Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

ULR No. : TC112272400001208F
Report No. : VTLW/2407010011/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Piezometer -3
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.82	-	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10) 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	312	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	73.18	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 2023	201	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	149	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	31.45	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	610	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1988, Sec.-1 2022	47.82	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.64	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	29.45	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.44	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	2.4
15	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.63	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5




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TEST REPORT



TC-11227

Sample Number : VTLW/12

ULR No. : TC1122724000001208F

Report No. : VTLW/2407010011/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
17		2017				
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
23	Ammonia (as N)	IS-3025 (P-34)- 1988, Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) : 1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

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TEST REPORT

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Sample Number : VTLW/12

Name & Address of the Party : M/s Adani Power Limited
Village- Chhole Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Piezometer -3
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2407010011/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4) 2023	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	1.0	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

End of Report

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TEST REPORT



Sample Number : VTLW/11
Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Piezometer -4
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272400001209F
Report No. : VTLW/2407010012/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.91	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10) 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	295	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	72.26	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23). 2023	182	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	166	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46). 2023	27.87	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	620	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec.-1 2022	42.18	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD .2017	0.66	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	27.29	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.54	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	2.4
15	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.69	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



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Sample Number : VTL/W/11

ULR No. : TC1122724000001209F

Report No. : VTL/W/2407010012/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1986,Sec. RA 2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

End of Report



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/11

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTLW/2407010012/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 28/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Piezometer -4
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4) : 2023	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	1.0	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

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VIBRANT

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Sample Number : VTL/SW/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mahanadi Up Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

TEST REPORT



ULR No. : TC112272400001210F
Report No. : VTLW/2407010013/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 29/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.45	--
2	Turbidity	IS : 3025 (P- 10) : 2023	4.6	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	415	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	73.8	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : Sec.-1 2022	34.16	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 2023	147	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	183	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	40.28	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	20.05	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.68	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	25.7	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1622 :2009	23	MPN/100ml
14	Total Coliform	IS 15185: 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.47	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.65	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coll	IS :15185 : 2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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TEST REPORT



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Sample Number : VTU/SW/01

ULR No. : TC1122724000001210F

Report No. : VTLAW/2407010013/A

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

End of Report



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER

Sampling Location : Mahanadi Up Stream

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2407010013/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 04/07/2024

Period of Analysis : 01/07/2024-04/07/2024

Receipt Date : 01/07/2024

Sampling Date : 29/06/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report



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Sample Number : VTL/SW/02
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

ULR No. : TC1122724000001211F
Report No. : VTLW/2407010014/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 29/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : SURFACE WATER
Sampling Location : Mahanadi Down Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.74	---
2	Turbidity	IS : 3025 (P- 10) : 2023	7.1	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	570	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	81.62	mg/l
5	Sulphate as (SO ₄)	IS: 3025 (P- 24) : Sec.-1 2022	46.2	mg/l
6	Total Alkalinity (as CaCO ₃)	IS: 3025 (P- 23) : 2023	173	mg/l
7	Total Hardness (CaCO ₃)	IS: 3025 (P- 21) : 2009, RA 2019	205	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	46.92	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	21.36	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.75	mg/l
11	Nitrate (as NO ₃)	IS: 3025 (P- 34) : 1988 RA 2022	34.82	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Faecal Coliform	IS:1622 :2009	29.0	MPN/100ml
14	Total Coliform	IS 15185: 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.55	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.73	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 :2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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Sample Number : VTL/SW/02

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

TEST REPORT



ULR No. : TC1122724000001211F

Report No. : VTLW/2407010014/A

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TEST REPORT

VIBRANT

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Sample Number : VTL/SW/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mahanadi Down Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2407010014/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 29/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	--
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report



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Sample Number : VTL/SW/04
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mand River Down Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000001212F
Report No. : VTLW/2407010015/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 29/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.88	-
2	Turbidity	IS : 3025 (P- 10) : 2023	6.1	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	450	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	81.62	mg/l
5	Sulphate as (SO ₄)	IS: 3025 (P- 24) : Sec.-1 2022	41.84	mg/l
6	Total Alkalinity (as CaCO ₃)	IS: 3025 (P- 23) : 2023	142	mg/l
7	Total Hardness (CaCO ₃)	IS: 3025 (P- 21) : 2009, RA 2019	223	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	58.68	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	18.61	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.93	mg/l
11	Nitrate (as NO ₃)	IS: 3025 (P- 34) : 1988 RA 2022	37.88	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1622 :2009	34	MPN/100ml
14	Total Coliform	IS 15185; 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.56	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.78	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ml
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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TEST REPORT



Sample Number : VTL/SW/04

ULR No. : TC1122724000001212F

Report No. : VTLW/2407010015/A

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

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TEST REPORT

VIBRANT

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Sample Number : VTL/SW/04

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mand River Down Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2407010015/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 29/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report




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Sample Number : VTL/SW/03
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist. - Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mand River Up Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000001213F
Report No. : VTLW/2407010016/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 29/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.75	-
2	Turbidity	IS : 3025 (P- 10) : 2023	3.8	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	330	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	52.18	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : Sec.-1 2022	28.42	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 2023	96	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	152	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	47.76	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 48) : 2023	7.98	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.44	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	23.96	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1622 :2009	18	MPN/100ml
14	Total Coliform	IS 15185; 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.31	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.44	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ml
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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Sample Number : VTL/SW/03

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

TEST REPORT



TC-11227

ULR No. : TC1122724000001213F

Report No. : VTL/W/2407010016/A

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TEST REPORT

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Sample Number : VTL/SW/03

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mand River Up Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2407010016/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 04/07/2024
Period of Analysis : 01/07/2024-04/07/2024
Receipt Date : 01/07/2024
Sampling Date : 29/06/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) :	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH ₃)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report

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TEST REPORT



Sample Number: VTL/AA/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407250001/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 21°44'21" & 83°17'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/07/2024 To 20/07/2024
Time of Monitoring : 11:00 TO 11:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	56.28	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	23.95	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	11.57	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	5.73	µg/m³	80

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

End of Report



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TEST REPORT

Sample Number: VTL/AA/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407250001/B
Format No : 7 8 F-02
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 21°44'21" & 83°17'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/07/2024 To 20/07/2024
Time of Monitoring : 11:00 TO 11:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022. STP-08	0.38	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	--

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

End of Report



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TEST REPORT



Sample Number: VTL/AA/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407250002/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/05
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/07/2024 To 20/07/2024
Time of Monitoring : 12:00 TO 12:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	61.74	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	25.62	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	12.47	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	6.59	µg/m³	80

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

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TEST REPORT

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Sample Number: VTU/AA/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTU/A/2407250002/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/05
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/07/2024 To 20/07/2024
Time of Monitoring : 12:00 TO 12:00 Hrs.
Ambient Temperature (°C) : Min, 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.43	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No. 317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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TEST REPORT



Sample Number: VTL/AA/07

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407250006/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village Kathil
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'28" & 83°16'26"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/07/2024 To 20/07/2024
Time of Monitoring : 11:30 TO 11:30 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	57.26	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	24.72	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	16.14	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	8.16	µg/m³	80

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

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TEST REPORT

Sample Number: VTL/AA/07

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407250006/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

- General Information:-
Sampling Location : Village Kathli
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'28" & 83°16'26"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/07/2024 To 20/07/2024
Time of Monitoring : 11:30 TO 11:30 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

Table with 6 columns: S.No., Parameters, Test Method, Results, Units, NAAQS 2009. Row 1: Carbon Monoxide (as CO), Lab SOP no. VTL/STP/02:2022, STP-08, 0.55, mg/m³, 4. Row 2: 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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TEST REPORT



Sample Number: VTL/AA/08

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407250007/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Village- Amla Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 20/07/2024 To 21/07/2024
Time of Monitoring : 10:10 TO 10:10 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	56.20	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	26.42	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	12.93	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	6.99	µg/m ³	80

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

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TEST REPORT

Sample Number: VTL/AA/08

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 495100 Chhattisgarh

Report No. : VTL/A/2407250007/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village- Amlil Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 20/07/2024 To 21/07/2024
Time of Monitoring : 10:10 TO 10:10 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.44	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed, 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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TEST REPORT



Sample Number : VTL/AA/12

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 495100 Chhattisgarh

Report No. : VTL/A/2407250012/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Switch Yard
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : -
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/07/2024 To 22/07/2024
Time of Monitoring : 11:00 TO 11:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	64.28	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	29.16	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS 5182 (P- 6)-2006, RA.2018	20.42	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	11.60	µg/m ³	80

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

End of Report



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TEST REPORT

Sample Number : VTL/AA/12

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2407250012/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Switch Yard
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : -
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/07/2024 To 22/07/2024
Time of Monitoring : 11:00 TO 11:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.73	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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TEST REPORT



Sample Number : VTL/AN/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Cnhattisgarh

Report No. : VTL/N/2407250001/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 01/08/2024
Receipt Date : 25/07/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Chote Bhandar
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 20/07/2024 To 21/07/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	56.2	43.5

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

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

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

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Sample Number: VTL/AN/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2407250002/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 01/08/2024
Receipt Date : 25/07/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Bade Bhandar
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/07/2024 To 20/07/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	54.2	42.8

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

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

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

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

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

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

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TEST REPORT



Sample Number : VTL/AN/06

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2407250003/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 01/08/2024
Receipt Date : 25/07/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Village- Amlī Bhavan
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 20/07/2024 To 21/07/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	52.1	41.3

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

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

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

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TEST REPORT



Sample Number: VTL/AN/05

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2407250007/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 01/08/2024
Receipt Date : 25/07/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Village - Kathli
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/07/2024 To 20/07/2024
Time of Monitoring : 06:00 TO 08.00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	52.4	41.8

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

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

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply
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Sample Number : VTL/AN/12

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2407250012/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 01/08/2024
Receipt Date : 25/07/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Switch Yard
Instrument Code : VTL/SLM04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/07/2024 To 22/07/2024
Time of Monitoring : 08:00 TO 08:00 Hrs.
Ambient Temperature (°C) : Min. 28°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	62.3	45.1

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

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

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

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Sample Number : VTL/S/01
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/S/2407250001/A
Format No : 7.8 F-03
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : TPP
Sample Collected By : VTL Team
Date of Sampling : 21/07/2024
Sampling duration (Minutes) : 53 min. (11:10 to 12:03 hrs.)
Stack attached to : TPP
Make of stack : RCC
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) : 33°C
Temperature of Stack Gases - Ts (°C) : 132°C
Velocity of Stack Gases (m/sec.) : 6.14
Flow rate of PM (LPM) : 19
Flow rate of Gas (LPM) : 2.0
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : -

S.No.	Parameters	Test Method	Results	Units
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	35.43	mg/Nm ³
2	Sulphur Dioxide (SO ₂)	IS: 11255(P- 2): 1985, RA.2019	685	mg/Nm ³
3	Oxide of Nitrogen (NO ₂)	IS-11255 (P-7), RA 2017	276	mg/Nm ³
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-0.001)	mg/Nm ³

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

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Sample Number : VTL/WW/02

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water

Sampling Location : ETP Outlet

Sample Collected By : VTL Team

Coordinates : NA

ULR No. : TC1122724000001534F

Report No. : VTL/WW/2407250002/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 01/08/2024

Period of Analysis : 25/07/2024-01/08/2024

Receipt Date : 25/07/2024

Sampling Date : 22/07/2024

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.98	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	24.0	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLO(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	17.68	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-55) : 2023	71.0	mg/l	250

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

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Sample Number : VTLWW/03

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water

Sampling Location : STP Outlet

Sample Collected By : VTL Team

Coordinates : NA

ULR No. : TC1122724000001535F

Report No. : VTL/WW/2407250003/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 01/08/2024

Period of Analysis : 25/07/2024-01/08/2024

Receipt Date : 25/07/2024

Sampling Date : 22/07/2024

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.82	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	31	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLO(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	20.2	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2023	47.0	mg/l	250

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

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Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Coordinates : NA

ULR No. : TC1122724000001537F
Report No. : VTL/WW/2407250004/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024
Sampling Date : 22/07/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.47	mg/l	1.0

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

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Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/WW/2407250004/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024
Sampling Date : 22/07/2024
Parameter Required : As per work order

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):2022, (stannous Chloride Method) Sec.1	*BLQ(**LOQ-0.2)	mg/l	5

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

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Sample Number : VTL/WW/05

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Boiler Blow Down
Sample Collected By : VTL Team
Coordinates : NA

ULR No. : TC112272400001540F
Report No. : VTL/WW/2407250005/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024
Sampling Date : 22/07/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.52	mg/l	1.0

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

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TEST REPORT

Sample Number : VTL/WW/05

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Boiler Blow Down
Sample Collected By : VTL Team
Coordinates : NA

Report No. : VTL/WW/2407250005/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 01/08/2024
Period of Analysis : 25/07/2024-01/08/2024
Receipt Date : 25/07/2024
Sampling Date : 22/07/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):2022, (stannous Chloride Method) Sec.1	*BLQ(**LOQ-0.2)	mg/l	5

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

End of Report



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Authorized Signatory

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TEST REPORT

Sample Number:
Name & Address of the Party:

VTL/WL/01-03
M/s Adani Power Limited
Village - Chhote Bhandar, Post - Bade
Bandar, Tehsil Pussore, Dist- Raigarh
496100 (Chhattisgarh)

Report No.: VTL/WL/2407250001-03
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 01/08/2024
Receipt Date: 25/07/2024
Date of Monitoring: 22/07/2024

Sample Collected By
Sample Description:

VTL Team
Ground Water Level Monitoring

S.No.	Location	Depth (In meter)
1.	Piezometer Well No.- 02	2.38
2.	Piezometer Well No.- 03	2.51
3.	Piezometer Well No.- 04	3.69

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(Authorized Signatory)

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Sample Number : VTL/AA/03

Name & Address of the Party : M/s Adani Power Limited
Village- Chhole Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2408200003/A

Format No : 7.8 F-02

Party Reference No : NIL

Report Date : 24/08/2024

Period of Analysis : 20/08/2024-24/08/2024

Receipt Date : 20/08/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 21°44'21" & 83°17'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/08/2024 To 14/08/2024
Time of Monitoring : 08:00 TO 08:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 35°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS .5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	50.28	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	22.39	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	10.56	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	6.12	µg/m ³	80

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

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TEST REPORT

Sample Number : VTL/AA/03

Name & Address of the Party : M/s Adani Power Limited
Village- Chhole Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2408200003/B
Format No : 7 6 F-02
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 21°44'21" & 83°17'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/08/2024 To 14/08/2024
Time of Monitoring : 08:00 TO 08:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 35°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.42	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	--

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

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Sample Number : VTL/AA/04
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No : VTL/A/2408200004/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village Kathli
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'28" & 83°16'26"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/08/2024 To 14/08/2024
Time of Monitoring : 08:30 TO 09:30 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 35°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	49.85	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	24.75	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	15.34	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.65	µg/m ³	80

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

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Sample Number : VTL/AA/04

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2408200004/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Village Kathli
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'28" & 83°16'26"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/08/2024 To 14/08/2024
Time of Monitoring : 08:30 TO 08:30 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 35°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022. STP-08	0.59	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	--

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

End of Report



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Sample Number : VTL/AA/05

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

TEST REPORT



Report No. : VTL/A/2408200005/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024

Sample Description : **AMBIENT AIR QUALITY MONITORING**

General Information:-
Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 14/08/2024 To 15/08/2024
Time of Monitoring : 09:00 TO 09:00 Hrs,
Ambient Temperature (°C) : Min. 26°C Max. 30°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	58.37	µg/m³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	28.76	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	14.52	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	7.18	µg/m³	80

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

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Sample Number : VTL/AA/05

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2408200005/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 14/08/2024 To 15/08/2024
Time of Monitoring : 09:00 TO 09:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 30°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02-2022, STP-08	0.50	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No 317	*BLQ (**LOQ 0.5)	µg/m ³	--

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

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Sample Number : VTL/AA/08

Name & Address of the Party : M/s Adani Power Limited
Village- Chhole Bhandar, Post- Bode Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2408200008/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village- Arni Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 14/08/2024 To 15/08/2024
Time of Monitoring : 08:30 TO 08:30 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 30°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	50.82	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	23.68	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	11.50	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	7.12	µg/m ³	80

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

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Sample Number : VTL/AA/06

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2408200006/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village- Amil Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 14/08/2024 To 15/08/2024
Time of Monitoring : 08:30 TO 08:30 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 30°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02-2022, STP-08	0.51	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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Sample Number : VTL/AA/13

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2408200013/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Switch Yard
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°44'39" & 83°16'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/08/2024 To 17/08/2024
Time of Monitoring : 11:00 TO 11:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	66.10	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	32.54	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA. 2018	19.67	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.52	µg/m ³	80

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

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TEST REPORT

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Sample Number : VTL/AA/13

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2408200013/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Switch Yard
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°44'39" & 83°16'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/08/2024 To 17/08/2024
Time of Monitoring : 11:00 TO 11:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02-2022, STP-08	0.58	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLO (**LOQ 0.5)	µg/m ³	--

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

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Sample Number : VTL/AN/03

Name & Address of the Party : M/s Adani Power Limited
Village- Chhole Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 495100 Chhattisgarh

Report No : VTL/N/2408200003/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 24/08/2024
Receipt Date : 20/08/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Bade Bhandar
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/08/2024 To 14/08/2024
Time of Monitoring : 06.00 TO 06.00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 35°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA.2020	49.7	40.1

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

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

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

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Sample Number : VTL/AN/04

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2408200004/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 24/08/2024
Receipt Date : 20/08/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Village - Kathir
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/08/2024 To 14/08/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 35°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	48.7	39.3

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

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

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

End of Report



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RK Yadav
Lab Incharge
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TEST REPORT



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Sample Number : VTL/AN/05

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2408200005/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 24/08/2024
Receipt Date : 20/08/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Chote Bhandar
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 14/08/2024 To 15/08/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 30°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	54.1	42.8

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

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

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
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Sample Number : VTL/AN/06

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2408200006/A
Format No : 7.6 F-04
Party Reference No : NIL
Report Date : 24/08/2024
Receipt Date : 20/08/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Village- Amli Bhavan
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 14/08/2024 To 15/08/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 26°C Max. 30°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA.2020	49.2	38.5

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

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

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

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Sample Number : VTL/AN/13

Name & Address of the Party : M/s Adani Power Limited
Village- Chhole Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist. - Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2408200013/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 24/08/2024
Receipt Date : 20/08/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Switch Yard
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/08/2024 To 17/08/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	59.5	48.9

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

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

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
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Sample Number : VTL/AN/16

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2408200016/A
Format No : 7 B F-04
Party Reference No : NIL
Report Date : 24/08/2024
Receipt Date : 20/08/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Village- Amli Bhavan
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 16/08/2024 To 17/08/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 25°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.6	43.2

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

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

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

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

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

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

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Sample Number : VTL/S/01
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/S/240820001/A
Format No : 7.8 F-03
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : TPP
Sample Collected By : VTL Team
Date of Sampling : 13/08/2024
Sampling duration (Minutes) : 37 min. (14:30 to 15:07 hrs.)
Stack attached to : TPP
Make of stack : RCC
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) : 33°C
Temperature of Stack Gases - Ts (°C) : 115°C
Velocity of Stack Gases (m/sec.) : 18.60
Flow rate of PM (LPM) : 27
Flow rate of Gas (LPM) : 2.0
Sampling condition : OK
Protocol used : IS 11255 & USEPA
Coordinates : --

S.No.	Parameters	Test Method	Results	Units
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	32.12	mg/Nm ³
2	Sulphur Dioxide (SO ₂)	IS: 11255(P- 2): 1985, RA.2019	645.0	mg/Nm ³
3	Oxide of Nitrogen (NO ₂)	IS-11255 (P-7), RA 2017	268.0	mg/Nm ³
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-0.001)	mg/Nm ³

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

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Sample Number : VTLWW/02

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : ETP Outlet
Sample Collected By : VTL Team
Coordinates : NA

ULR No. : TC1122724000001729F
Report No. : VTL/WW/2408200002/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024
Sampling Date : 17/08/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.62	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	22.0	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	16.21	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2023	62.0	mg/l	250

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

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Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Coordinates : NA

ULR No. : TC1122724000001730F
Report No. : VTL/WW/2408200003/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024
Sampling Date : 17/08/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.66	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	28.0	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLO(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	15.0	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2023	55.0	mg/l	250

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

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Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist. - Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Coordinates : NA

ULR No. : TC1122724000001731F
Report No. : VTL/WW/2408200004/A
Format No : 7 8 F-01
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024
Sampling Date : 17/08/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26).2021	0.42	mg/l	1.0

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

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Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/WW/2408200004/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024
Sampling Date : 17/08/2024
Parameter Required : As per work order

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Coordinates : NA

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):2022, (stannous Chloride Method) Sec. 1	*BLQ(**LOQ-0.2)	mg/l	5

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

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Sample Number : VTL/WW/05

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Boiler Blow Down
Sample Collected By : VTL Team
Coordinates : NA

ULR No. : TC1122724000001732F
Report No. : VTL/WW/2408200005/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024
Sampling Date : 17/08/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.50	mg/l	1.0

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

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Sample Number : VTLWW/05

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 498100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Boiler Blow Down
Sample Collected By : VTL Team
Coordinates : NA

Report No. : VTLWW/2408200005/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 24/08/2024
Period of Analysis : 20/08/2024-24/08/2024
Receipt Date : 20/08/2024
Sampling Date : 17/08/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):2022, (stannous Chloride Method) Sec. 1	*BLQ(**LOQ-0.2)	mg/l	5

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

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TEST REPORT

Sample Number: VTL/WL/01-03
Name & Address of the Party: M/s Adani Power Limited
Village - Chhote Bhandar, Post - Bade
Bandar, Tehsil Pussore, Dist- Raigarh
496100 (Chhattisgarh)

Report No.: VTL/WL/2408200001-03
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 24/08/2024
Receipt Date: 20/08/2024
Date of Monitoring: 15/08/2024

Sample Collected By: VTL Team
Sample Description: Ground Water Level Monitoring

S.No.	Location	Depth (In meter)
1.	Piezometer Well No.- 02	1.35
2.	Piezometer Well No.- 03	2.45
3.	Piezometer Well No.- 04	2.49

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Sample Number : VTL/AA/03
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2409240003/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 21°44'21" & 83°17'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 18/09/2024 To 19/09/2024
Time of Monitoring : 08:00 TO 08:00 Hrs.
Ambient Temperature (°C) : Min. 24°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	49.47	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	21.20	µg/m ³	50
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA. 2018	10.03	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	5.99	µg/m ³	80

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

End of Report



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Lab Incharge
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Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT

Sample Number : VTL/AA/03
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTU/A/2409240003/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Bade Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/03
Coordinates : 21°44'21" & 83°17'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 18/09/2024 To 19/09/2024
Time of Monitoring : 08:00 TO 08:00 Hrs.
Ambient Temperature (°C) : Min. 24°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02 2022, STP-08	0.46	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	--

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

End of Report



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Sample Number : VTL/AA/04
Name & Address of the Party : M/s Adani Power Limited
Village- Chhole Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2409240004/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village Kathli
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'28" & 83°16'26"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 18/09/2024 To 19/09/2024
Time of Monitoring : 08:30 TO 08:30 Hrs.
Ambient Temperature (°C) : Min. 24°C Max. 33°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	50.30	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	25.12	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA 2018	16.33	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	8.94	µg/m ³	80

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


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TEST REPORT

Sample Number : VTL/AA/04
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2409240004/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village Kathli
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/04
Coordinates : 21°43'28" & 83°16'26"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 18/09/2024 To 19/09/2024
Time of Monitoring : 08.30 TO 08.30 Hrs.
Ambient Temperature (°C) : Min. 24°C Max. 33°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02 2022, STP-08	0.54	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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TEST REPORT



Sample Number : VTL/AA/05
 Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2409240005/A
 Format No : 7.6 F-02
 Party Reference No : NIL
 Report Date : 30/09/2024
 Period of Analysis : 24/09/2024-30/09/2024
 Receipt Date : 24/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
 Sampling Location : Chote Bhandar
 Sample Collected By : VTL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VTL/RDS/FPS/01
 Coordinates : 21°43'57" & 83°17'00"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 19/09/2024 To 20/09/2024
 Time of Monitoring : 09:00 TO 09:00 Hrs.
 Ambient Temperature (°C) : Min. 23°C Max. 31°C
 Surrounding Activity : Human, Vehicular & Plant Act.
 Scope of Monitoring : Regulatory Requirement
 Method of Sampling : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS 5182 (P- 23)-2006, RA. 2017	57.10	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	26.48	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA 2018	13.33	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	6.89	µg/m ³	80

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

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TEST REPORT

Sample Number : VTL/AA/05
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 495100 Chhattisgarh

Report No. : VTL/A/2409240005/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Chote Bhandar
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°43'57" & 83°17'00"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/09/2024 To 20/09/2024
Time of Monitoring : 09:00 TO 09:00 Hrs.
Ambient Temperature (°C) : Min. 23°C Max. 31°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.49	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	-

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

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TEST REPORT



Sample Number : VTL/AA/06
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2409240006/A
Format No : 7 8 F-02
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-
Sampling Location : Village- Amla Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/09/2024 To 20/09/2024
Time of Monitoring : 08:30 TO 08:30 Hrs.
Ambient Temperature (°C) : Min. 23°C Max. 31°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2008, RA, 2017	49.88	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	22.09	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	10.97	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA, 2018	7.00	µg/m ³	80

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

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Sample Number : VTL/AA/06

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 495100 Chhattisgarh

Report No. : VTL/A/2409240006/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Village- Amla Bhavan
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/02
Coordinates : 21°43'33" & 83°16'6"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/09/2024 To 20/09/2024
Time of Monitoring : 08:30 TO 08:30 Hrs.
Ambient Temperature (°C) : Min. 23°C Max. 31°C
Surrounding Activity : Human, Vehicular & Other Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.53	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	---

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

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Sample Number : VTL/AA/13

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2409240013/A
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Switch Yard
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°44'39" & 83°16'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/09/2024 To 22/09/2024
Time of Monitoring : 11:00 TO 11:00 Hrs.
Ambient Temperature (°C) : Min. 23°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	64.75	µg/m ³	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	30.93	µg/m ³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	20.15	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.17	µg/m ³	80

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

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TEST REPORT

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Sample Number : VTL/AA/13

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/A/2409240013/B
Format No : 7.8 F-02
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024

Sample Description : AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location : Switch Yard
Sample Collected By : VTL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VTL/RDS/FPS/01
Coordinates : 21°44'39" & 83°16'21"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/09/2024 To 22/09/2024
Time of Monitoring : 11:00 TO 11:00 Hrs.
Ambient Temperature (°C) : Min. 23°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Scope of Monitoring : Regulatory Requirement
Method of Sampling : IS 5182
Sampling Duration : 24 Hrs.
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.56	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis, 3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m ³	—

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

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TEST REPORT



VIBRANT

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Sample Number : VTL/AN/03

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2409240003/A
Format No : 7 B F-04
Party Reference No : NIL
Report Date : 30/09/2024
Receipt Date : 24/09/2024
Sampling Duration : 24 Hrs
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Bade Bhandar
Instrument Code : VTL/SLM/03
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 18/09/2024 To 19/09/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 24°C Max. 33°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA/2020	48.2	40.5

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

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

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

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

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

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

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Sample Number : VTL/AN/04

Name & Address of the Party : M/s Adani Power Limited
Village- Chhole Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2409240004/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 30/09/2024
Receipt Date : 24/09/2024
Sampling Duration : 24 Hrs
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Village - Kathi
Instrument Code : VTL/SLM/04
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 18/09/2024 To 19/09/2024
Time of Monitoring : 05:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 24°C Max. 33°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	49.1	40.0

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

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

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

End of Report



Checked by



RK Yadav
Lab Incharge
Authorized Signatory



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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/AN/05

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2409240005/A
Format No : 7 & F-04
Party Reference No : NIL
Report Date : 30/09/2024
Receipt Date : 24/09/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Chote Bhandar
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/09/2024 To 20/09/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 23°C Max. 31°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	53.8	42.1

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

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

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

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VIBRANT

"Experience the unimaginable"

Sample Number : VTL/AN/06

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

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

Report No. : VTL/N/2409240006/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 30/09/2024
Receipt Date : 24/09/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

General Information:-

Sampling Location : Village- Amlh Bhavan
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 19/09/2024 To 20/09/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 23°C Max. 31°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	48.9	39.3

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

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

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

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

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TEST REPORT



VIBRANT

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Sample Number : VTL/AN/13

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 498100 Chhattisgarh

Report No. : VTL/N/2409240013/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 30/09/2024
Receipt Date : 24/09/2024
Sampling Duration : 24 Hrs
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status :

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

General Information:-

Sampling Location : Switch Yard
Instrument Code : VTL/SLM/01
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/09/2024 To 22/09/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 23°C Max. 32°C
Surrounding Activity : Human, Vehicular & Plant Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	60.9	49.1

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

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

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

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

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

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

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VIBRANT

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Sample Number : VTL/AN/14

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2409240014/A
Format No : 7.8 F-04
Party Reference No : NIL
Report Date : 30/09/2024
Receipt Date : 24/09/2024
Sampling Duration : 24 Hrs.
Sample Collected : VTL Team
Instrument : Calibrated
Calibration Status

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

General Information:-

Sampling Location : Village - Chandarpur
Instrument Code : VTL/SLM/02
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 21/09/2024 To 22/09/2024
Time of Monitoring : 06:00 TO 06:00 Hrs.
Ambient Temperature (°C) : Min. 23°C Max. 32°C
Surrounding Activity : Human, Vehicular & Other Act.
Parameter Required : As per work order
Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA-2020	53.1	41.7

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

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

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

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

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

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Sample Number : VTL/AN/16

TEST REPORT



TC-11227

Name & Address of the Party : M/s Adani Power Limited
 Village- Chhole Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/N/2409240016/A
 Format No : 7 B F-04
 Party Reference No : NIL
 Report Date : 30/09/2024
 Receipt Date : 24/09/2024
 Sampling Duration : 24 Hrs.
 Sample Collected : VTL Team
 Instrument : Calibrated
 Calibration Status :

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

General Information:-

Sampling Location : Village- Amli Bhavan
 Instrument Code : VTL/SLM/04
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 21/09/2024 To 22/09/2024
 Time of Monitoring : 06:00 TO 06:00 Hrs.
 Ambient Temperature (°C) : Min. 23°C Max. 32°C
 Surrounding Activity : Human, Vehicular & Other Act.
 Parameter Required : As per work order
 Coordinates : NA

S.No.	Test Parameters	Protocol	Test Result dB(A)	
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	54.8	44.9

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

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

- Day Time is from 6:00 AM to 10:00 PM.
- Night Time is reckoned between 10:00 PM to 6:00 AM.
- Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.

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VIBRANT

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Sample Number : VTL/S/01

Name & Address of the Party : M/s Adani Power Limited

Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/S/2409240001/A

Format No : 7.8 F-03

Party Reference No : NIL

Report Date : 30/09/2024

Period of Analysis : 24/09/2024-30/09/2024

Receipt Date : 24/09/2024

Sample Description : Stack Emission Monitoring

General Information:-

Sampling Location : TPP
 Sample Collected By : VTL Team
 Date of Sampling : 20/09/2024
 Sampling duration (Minutes) : 28 min. (14:47 to 15:15 hrs.)
 Stack attached to : TPP
 Make of stack : RCC
 Diameter of stack(m) : 7.5 m
 Height of stack(m) : 275 m
 Instrument calibration status : Calibrated
 Meteorological Condition : Clear Sky
 Ambient Temperature - Ta (°C) : 37°C
 Temperature of Stack Gases - Ts (°C) : 138°C
 Velocity of Stack Gases (m/sec.) : 18.60
 Flow rate of PM (LPM) : 36
 Flow rate of Gas (LPM) : 2.0
 Sampling condition : OK
 Protocol used : IS 11255 & USEPA
 Coordinates : -

S.No.	Parameters	Test Method	Results	Units
1	Particulate Matter (PM)	IS: 11255 (P-1), 1985, RA 2019	30.40	mg/Nm ³
2	Sulphur Dioxide (SO ₂)	IS: 11255(P-2), 1985, RA 2019	602.0	mg/Nm ³
3	Oxide of Nitrogen (NO ₂)	IS-11255 (P-7), RA 2017	243.0	mg/Nm ³
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-0.001)	mg/Nm ³

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

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TEST REPORT



TC-11227

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/WW/02

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : ETP Outlet
Sample Collected By : VTL Team
Coordinates : NA

ULR No. : TC1122724000002110F
Report No. : VTL/WW/2409240003/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 21/09/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.77	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	24.2	mg/l	100
3	Oil & Grease	IS: 3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	17.0	mg/l	30
5	Chemical oxygen Demand (COD)	IS: 3025 (P-58) : 2023	70.0	mg/l	250

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

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TEST REPORT



TC-11227

VIBRANT

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Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Name & Address of the Party :

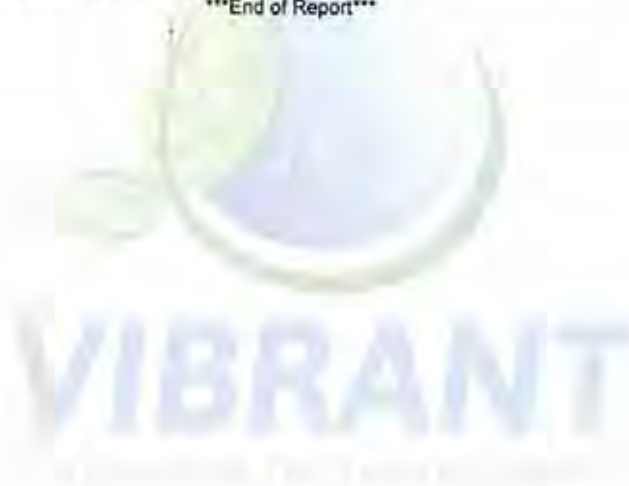
Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Coordinates : NA

ULR No. : TC1122724000002111F
Report No. : VTL/WW/2409240004/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 21/09/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.41	-	5.5 to 9.0
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	30.2	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Biochemical Oxygen Demand (BOD) (3 days @ 27°C)	IS: 3025 (P-44): 2023	14.0	mg/l	30
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) 2023	52.0	mg/l	250

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

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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Rajgarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Coordinates : NA

ULR No. : TC1122724000002112F
Report No. : VTL/WW/2409240005/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 21/09/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.38	mg/l	1.0

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

End of Report



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/WW/04

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : **Waste Water**
Sampling Location : Cooling Tower Blow Down
Sample Collected By : VTL Team
Coordinates : NA

Report No. : VTL/WW/2409240005/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 21/09/2024
Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):2022, (stannous Chloride Method) Sec.1	*BLQ(**LOQ-0.2)	mg/l	5

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

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TEST REPORT



VIBRANT

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Sample Number : VTL/WW/05

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water

Sampling Location : Boiler Blow Down

Sample Collected By : VTL Team

Coordinates : NA

ULR No. : TC112272400002113F

Report No. : VTL/WW/2409240006/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 30/09/2024

Period of Analysis : 24/09/2024-30/09/2024

Receipt Date : 24/09/2024

Sampling Date : 21/09/2024

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 3113 B, 2017	*BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.47	mg/l	1.0

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

End of Report



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TEST REPORT

VIBRANT

Experience the unimaginable

Sample Number : VTL/WW/05

M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Name & Address of the Party :

Sample Description : Waste Water

Sampling Location : Boiler Blow Down

Sample Collected By : VTL Team

Coordinates : NA

Report No. : VTL/WW/2409240006/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 30/09/2024

Period of Analysis : 24/09/2024-30/09/2024

Receipt Date : 24/09/2024

Sampling Date : 21/09/2024

Parameter Required : As per work order

S.No.	Test Parameters	Test Method	Result	Unit	Limits
1	Phosphate (as PO4)	IS:3025 (P-31):2022, (stannous Chloride Method) Sec.1	*BLQ(**LOQ-0.2)	mg/l	5

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

End of Report



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Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT



TC-11227

Experience the unimaginable™

Sample Number : VTLW/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

ULR No. : TC1122724000002090F
Report No. : VTLW/2409240006/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Village- Amla Bhavan
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.08	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10) : 2023	*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	53.0	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 2023	177.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	102.0	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	15.25	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	510	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): Sec : 1 : 2022	28.40	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD .2017	0.50	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	21.9	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.27	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	2.4
15	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.37	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



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Sample Number: VTLW/01

ULR No. : TC1122724000002090F

Report No. : VTLW/2409240006/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
21	Total Coliform	IS : 15185 : 2016 RA: 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Free Residual Chlorine	IS 3025 (P-26) 2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

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TEST REPORT

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Sample Number : VTLW/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTLW/2409240006/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Village- Amla Bhavan
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-	Agreeable	Agreeable
3	Taste	IS :3025 (P-8) : 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition .4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) : 2021	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition : 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Sulphide	IS 3025 (P-29) : 1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
8	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

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**VIBRANT***"Experience the unimaginable"*

Sample Number : VTLW/02

Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
 Sampling Location : Village - Kathli
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

TEST REPORT

ULR No. : TC112272400002091F
 Report No. : VTLW/2409240007/A
 Format No : 7 & F-01
 Party Reference No : NIL
 Report Date : 30/09/2024
 Period of Analysis : 24/09/2024-30/09/2024
 Receipt Date : 24/09/2024
 Sampling Date : 20/09/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr.
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.49	-	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	178.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	52.5	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 2023	149.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	113.0	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	11.42	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	440.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): sec -1 2022	29.8	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD 2017	0.50	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	22.4	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.25	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	2.4
15	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.38	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



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Sample Number : VTL/W/02

ULR No. : TC1122724000002091F

Report No. : VTL/W/2408240007/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	E Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) 1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

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TEST REPORT

VIBRANT

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Sample Number : VTL/W/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTLW/2409240007/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 30/09/2024

Period of Analysis : 24/09/2024-30/09/2024

Receipt Date : 24/09/2024

Sampling Date : 20/09/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : NA

Sample Description : Water Sample

Sampling Location : Village - Kathil

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4)2023	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	1.0	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

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TEST REPORT



Sample Number : VTLW/02
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

ULR No. : TC1122724000002092F
Report No. : VTLW/2409240008/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Village - Chote Bhandar
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS 3025 (P-11) : 2022	7.23	—	6.5 to 8.5	No Relaxation
2	Turbidity	IS 3025 (P-10) 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	201.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	54.9	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23): 2023	186.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	106.0	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	15.56	mg/l	30	100
8	Total Dissolved Solids	IS 3025 (P-16) 2023	560.0	mg/l	500	2000
9	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec-1 2022	34.55	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition 4500FD :2017	0.55	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS: 3025 (P-34): 1988	20.10	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.36	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	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.43	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



TC-11227

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Sample Number : VTL/W/02

ULR No. : TC1122724000002092F

Report No. : VTLW/2409240008/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	E Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec RA 2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
26	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN	-	-

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

End of Report

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTLW/2409240008/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Village - Chote Bhandar
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4) 2023	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

End of Report

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VIBRANT

"Experience the unimaginable"

Sample Number : VTL/W/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tensli- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Village - Bade Bhandar
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

TEST REPORT



ULR No. : TC1122724000002093F
Report No. : VTL/W/2409240009/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.40	-	8.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025, (P-10) 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	254.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	64.9	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 2023	207.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	142.0	mg/l	250	1000
7	Magnesium (as Mg)	IS : 3025 (P-46): 2023	22.37	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	620.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): Sec.-1 2022	36.45	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.60	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	24.8	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.35	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	2.4
15	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.47	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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Test & Lendition PTO

Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT



VIBRANT

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Sample Number : VTLW/02

ULR No. : TC1122724000002093F

Report No. : VTLW/2409240009/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	-
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
26	Faecal Coliform	IS :1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

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

End of Report

VIBRANT



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTLW/2409240009/B
Format No : 7.6 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Village - Bade Bhandar
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4) 2023	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	1.0	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

End of Report



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TEST REPORT

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Sample Number : VTLW/09

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist. - Raigarh 496100 Chhattisgarh

Report No. : VTLW/2409240014/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Ash Pond
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS 3025

S.No.	Test Parameters	Test Method	Results	Units
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	-IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	--
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) : 2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH ₃)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

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Sample Number : VTLW/10

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

TEST REPORT



TC-11227

ULR No. : TC1122724000002099F
Report No. : VTLW/2409240015/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Piezometer-2
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.73	-	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10) 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	340.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	85.6	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 2023	225.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	149.0	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	30.72	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	860.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): Sec.-1 2022	60.10	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	40.8	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.53	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	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.58	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



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Sample Number : VTLW/10

ULR No. : TC1122724000002099F

Report No. : VTLW/2409240015/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1988, Sec. RA -2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) 1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
26	Faecal Coliform	IS : 1622 :1981 RA 2019	Absent	MPN/100 ml	-	-

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

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TEST REPORT

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Sample Number : VTLW/10

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTLW/2408240015/B
Format No : 7 B F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Piezometer-2
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4)1983, RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS 3025 (P-5) , 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8) , 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

End of Report



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VIBRANT

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Sample Number : VTLW/11

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

TEST REPORT



ULR No. : TC1122724000002100F
Report No. : VTLW/2409240016/A
Format No : 7 8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Piezometer-3
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.62	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10) 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS 3025 (P-21): 2009, RA 2019	335.0	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	73.8	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 2023	175.0	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	138.0	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 2023	36.66	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 2023	790.0	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1988, Sec-1 2022	46.50	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.60	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	27.60	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.42	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	2.4
15	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.52	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



VIBRANT

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Sample Number : VTLW/11

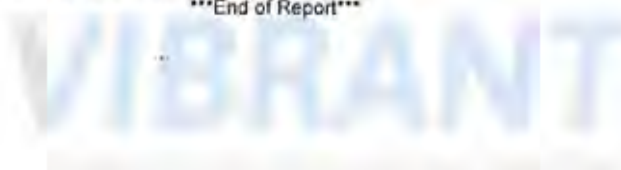
ULR No. : TC1122724000002100F

Report No. : VTLW/2409240016/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
17		2017				
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
23	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA -2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/11

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTLW/2409240016/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 30/09/2024

Period of Analysis : 24/09/2024-30/09/2024

Receipt Date : 24/09/2024

Sampling Date : 20/09/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : NA

Sample Description : Water Sample
Sampling Location : Piezometer-3
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4) 2023	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-	Agreeable	Agreeable
3	Taste	IS :3025 (P-6): 2023	Agreeable	-	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition .4500D,2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	1.0	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

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VIBRANT

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Sample Number : VTLW/12

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Sample Description : Water Sample
Sampling Location : Piezometer-4
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

TEST REPORT



ULR No. : TC1122724000002101F
Report No. : VTLW/2409240017/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.43	-	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025 (P-10) : 2023	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO ₃)	IS : 3025 (P-21) : 2009, RA 2019	271.0	mg/l	200	600
4	Calcium (as Ca)	IS : 3025 (P- 40) : 1991 RA 2019	62.8	mg/l	75	200
5	Total Alkalinity (as CaCO ₃)	IS : 3025 (P-23) : 2023	163.0	mg/l	200	600
6	Chloride (as Cl)	IS : 3025 (P-32) : 1988, RA 2019	123.0	mg/l	250	1000
7	Magnesium (as Mg)	IS : 3025 (P-46) : 2023	27.78	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16) : 2023	680.0	mg/l	500	2000
9	Sulphate (as SO ₄)	IS : 3025 (P-24) : Sec.-1 2022	36.5	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.55	mg/l	1.0	1.5
11	Nitrate (as NO ₃)	IS : 3025 (P-34) : 1988	24.8	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.43	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	2.4
15	Phenolic Compounds (C ₆ H ₅ OH)	APHA 23rd Edition 5530C : 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition 3030D, 3113 B , 2017	0.48	mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B : 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5



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TEST REPORT



TC-11227

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Sample Number : VTLW/12

ULR No. : TC1122724000002101F

Report No. : VTLW/2409240017/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
20	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
22	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	—
23	Ammonia (as N)	IS-3025 (P-34)- 1988, Sec. RA 2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
24	Sulphide	IS 3025 (P-29) 1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
25	Free Residual Chlorine	IS 3025 (P-26) 2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0

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

End of Report

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TEST REPORT

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Sample Number : VTLW/12

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTLW/2409240017/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

Sample Description : Water Sample
Sampling Location : Piezometer-4
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025 (P-4) 2023	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
4	Cyanide (as CN)	APHA 23rd Edition .4500D.2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
5	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	1.0	No Relaxation
6	Anionic Detergents (as MBAS)	APHA 23rd Edition . 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation

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

End of Report



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**VIBRANT***"Experience the unimaginable"*

Sample Number : VTL/SW/01

Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
 Sampling Location : Mahanadi Up Stream
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS :3025

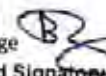
TEST REPORT

ULR No. : TC112272400002102F
 Report No. : VTL/W/2409240018/A
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 30/09/2024
 Period of Analysis : 24/09/2024-30/09/2024
 Receipt Date : 24/09/2024
 Sampling Date : 20/09/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr.
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.43	-
2	Turbidity	IS : 3025 (P- 10) : 2023	5.4	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	420.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	71.8	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : Sec.-1 2022	25.4	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 2023	141.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	112.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	34.6	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	6.24	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.48	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	22.6	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1622 :2009	29	MPN/100ml
14	Total Coliform	IS 15185: 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.46	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.64	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l




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Sample Number : VTL/SW/01

TEST REPORT



TC-11227

ULR No. : TC112272400002102F

Report No. : VTL/W/2409240018/A

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

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TEST REPORT

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Sample Number : VTL/SW/01

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Report No. : VTL/W/2409240018/B
Format No : 7 8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : SURFACE WATER
Sampling Location : Mahanadi Up Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report

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Sample Number : VTL/SW/02

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mahanadi Down Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

TEST REPORT



ULR No. : TC1122724000002103F
Report No. : VTL/W/2409240019/A
Format No : 7 & F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.50	—
2	Turbidity	IS : 3025 (P- 10) : 2023	8.0	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	615.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	82.0	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : Sec-1 2022	49.0	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 2023	149.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	185.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	46.5	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	16.75	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.63	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	28.9	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1522 :2009	38	MPN/100ml
14	Total Coliform	IS 15185: 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.58	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.70	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ML
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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Sample Number : VTL/SW/02

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

TEST REPORT



ULR No. : TC1122724000002103F
Report No. : VTL/W/2409240019/A

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TEST REPORT

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Sample Number : VTL/SW/02

Name & Address of the Party : M/s Adani Power Limited,
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/W/2409240019/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 30/09/2024

Period of Analysis : 24/09/2024-30/09/2024

Receipt Date : 24/09/2024

Sampling Date : 20/09/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : NA

Sample Description : SURFACE WATER
Sampling Location : Mahanadi Down Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	--
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report

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VIBRANT

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Sample Number : VTL/SW/03

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mand River Down Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

TEST REPORT



ULR No. : TC1122724000002104F
Report No. : VTL/W/2409240020/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.60	--
2	Turbidity	IS : 3025 (P- 10) : 2023	8.0	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	546.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	91.5	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : Sec-1 2022	49.3	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 2023	176.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	193.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	57.9	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	11.79	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.98	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	49.5	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1622 :2009	51	MPN/100ml
14	Total Coliform	IS 15185, 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.71	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.89	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ml
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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TEST REPORT



VIBRANT

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Sample Number : VTL/SW/03

ULR No. : TC1122724000002104F

Report No. : VTL/W/2409240020/A

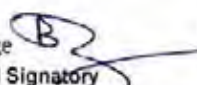
*BLQ Blow limit of Quantification **LOQ Limit of Quantification

End of Report




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RK Yadav
Lab Incharge
Authorized Signatory 



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/03

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Mand River Down Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTLW/2409240020/B
Format No : 7 B F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	--
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) : 2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report



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Sample Number : VTL/SW/04
Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

ULR No. : TC1122724000002105F
Report No. : VTLW/2409240021/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr
Coordinates : NA

Sample Description : SURFACE WATER
Sampling Location : Mand River UP Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.13	--
2	Turbidity	IS : 3025 (P- 10) : 2023	5.9	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	570.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	54.7	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : Sec-1 2022	31.6	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 2023	98.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	136.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	41.5	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	7.89	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.47	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) : 1988 RA 2022	25.9	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1622 : 2009	32	MPN/100ml
14	Total Coliform	IS 15185: 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.38	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.47	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ml
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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TEST REPORT



VIBRANT

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Sample Number : VTL/SW/04

ULR No. : TC1122724000002105F

Report No. : VTL/W/2409240021/A

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

End of Report



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/04

Name & Address of the Party : M/s Adani Power Limited
Village- Chhole Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/W/2409240021/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : SURFACE WATER
Sampling Location : Mand River UP Stream
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Taste	IS : 3025 (P-8) :	Agreeable	--
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report



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**VIBRANT***"Experience the unimaginable"*

Sample Number : VTL/SW/05

Name & Address of the Party : M/s Adani Power Limited
 Village- Chhote Bhandar, Post- Bade Bhandar,
 Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
 Sampling Location : Amli Bhawan pond
 Sample Collected By : VTL Team
 Preservation : Suitable Preservation
 Method of sampling : IS 3025

TEST REPORT

ULR No. : TC1122724000002106F
 Report No. : VTL/W/2409240022/A
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 30/09/2024
 Period of Analysis : 24/09/2024-30/09/2024
 Receipt Date : 24/09/2024
 Sampling Date : 20/09/2024
 Sampling Type : Grab
 Sample Quantity : 2 Ltr.
 Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.47	-
2	Turbidity	IS : 3025 (P- 10) : 2023	6.5	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	515.0	mg/l
4	Chloride (as Cl)	IS : 3025 (P-32) : 1988, RA 2019	84.5	mg/l
5	Sulphate as (SO4)	IS : 3025 (P- 24) : Sec.-1 2022	53.6	mg/l
6	Total Alkalinity (as CaCO3)	IS : 3025 (P- 23) : 2023	143.0	mg/l
7	Total Hardness (CaCO3)	IS : 3025 (P- 21) : 2009, RA 2019	205.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	67.8	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	8.95	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.88	mg/l
11	Nitrate (as NO3)	IS : 3025 (P- 34) : 1988 RA 2022	34.3	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS :1622 :2009	42	MPN/100ml
14	Total Coliform	IS 15185, 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.49	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.68	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 :2016	Present	P-A/100 ml
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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TEST REPORT



TC-11227

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/05

ULR No. : TC1122724000002106F

Report No. : VTL/W/2409240022/A

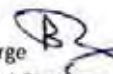
*BLO Blow limit of Quantification **LOQ Limit of Quantification

End of Report



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/05

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/W/2409240022/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : SURFACE WATER
Sampling Location : Amli Bhawan pond
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	—
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	—
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l


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

End of Report




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TEST REPORT



TC-11227

VIBRANT

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Sample Number : VTL/SW/07

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Kathli Village Pond
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000002107F
Report No. : VTL/W/2409240023/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.66	--
2	Turbidity	IS : 3025 (P- 10) : 2023	6.8	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	480.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	87.9	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : Sec.-1 2022	43.6	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 2023	169.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	196.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	53.1	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	15.43	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.63	mg/l
11	Nitrate (as NO3)	IS : 3025 (P- 34) : 1988 RA 2022	34.8	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1622 :2009	45	MPN/100ml
14	Total Coliform	IS 15185, 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.43	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.47	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ml
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



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VIBRANT

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Sample Number : VTL/SW/07

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

TEST REPORT



TC-11227

ULR No. : TC1122724000002107F

Report No. : VTLW/2409240023/A

End of Report



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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/07

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar
Tehsil- Pussore Dist.- Ralgarh 496100 Chhattisgarh

Report No. : VTLW/2409240023/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : SURFACE WATER
Sampling Location : Kathli Village Pond
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH3)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report



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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/08

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Sample Description : SURFACE WATER
Sampling Location : Bade Bhandar Pond
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC1122724000002108F
Report No. : VTL/W/2409240024/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.02	--
2	Turbidity	IS : 3025 (P- 10) : 2023	6.3	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	530.0	mg/l
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	72.0	mg/l
5	Sulphate as (SO4)	IS: 3025 (P- 24) : Sec.-1 2022	53.0	mg/l
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 2023	109.0	mg/l
7	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	164.0	mg/l
8	Calcium (as Ca)	IS : 3025 (P-40) : 1991 RA 2019	50.6	mg/l
9	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	9.17	mg/l
10	Fluoride (as F)	APHA 23rd Edition, 4500D, 2017	0.79	mg/l
11	Nitrate (as NO3)	IS: 3025 (P- 34) - 1988 RA 2022	44.0	mg/l
12	Phenolic compounds	APHA 23rd Edition, 5530C, 2017	*BLQ(**LOQ-0.001)	mg/l
13	Fecal Coliform	IS:1622 :2009	48	MPN/100ml
14	Total Coliform	IS 15185: 2016	Present	A-P/100ml
15	Iron (as Fe)	APHA 23rd Edition,3111B, 2017	0.49	mg/l
16	Zinc (as Zn)	APHA 23rd Edition, 3030D,3113B, 2017	0.67	mg/l
17	Copper (as Cu)	APHA 23rd edition, 3111B, 2017	*BLQ(**LOQ-0.02)	mg/l
18	Manganese (as Mn)	APHA 23rd Edition, 3030D,3113B, 2017	*BLQ(**LOQ-0.05)	mg/l
19	Arsenic (as As)	APHA 23rd Edition, 3030D,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l
20	E Coli	IS :15185 : 2016	Present	P-A/100 ml
21	Boron (as B)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.2)	mg/l
22	Selenium (as Se)	APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-0.005)	mg/l



Checked by

RK Yadav
Lab Incharge
Authorized Signatory



Term & conditions: PTC

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

Page No 1/2

Vibrant Techno Lab Pvt. Ltd.

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TEST REPORT



TC-11227

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/08

ULR No. : TC1122724000002108F

Report No. : VTL/W/2409240024/A


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

End of Report




Checked by



RK Yadav
Lab Incharge
Authorized Signatory 



Term & conditions PTO

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

Page No. 2/2

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TEST REPORT

VIBRANT

"Experience the unimaginable"

Sample Number : VTL/SW/08

Name & Address of the Party : M/s Adani Power Limited
Village- Chhote Bhandar, Post- Bade Bhandar,
Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh

Report No. : VTL/W/2409240024/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 30/09/2024
Period of Analysis : 24/09/2024-30/09/2024
Receipt Date : 24/09/2024
Sampling Date : 20/09/2024
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : NA

Sample Description : SURFACE WATER
Sampling Location : Bade Bhandar Pond
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	-
3	Taste	IS : 3025 (P-8) : 2023	Agreeable	-
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) : 2021	*BLQ(**LOQ-0.2)	mg/l
5	Cyanide (as CN)	APHA 23rd Edition, 4500D, 2017	*BLQ(**LOQ-0.02)	mg/l
6	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l
7	Ammonia (as NH ₃)	IS : 3025 (P-34) 1988, Sec.4 RA 2019	*BLQ(**LOQ-0.3)	mg/l
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 5530C	*BLQ(**LOQ 0.05)	mg/l

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

End of Report

VIBRANT



Checked by



RK Yadav
Lab Incharge
Authorized Signatory

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

Page No. 1/1

Term & conditions (PTU)

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adani

Foundation

CSR REPORT

April 2024 to September 2024

Adani Power Limited Raigarh is (1x600MW) coal-based power plant, a unit of Adani Power Limited (APL) has always been committed to the cause of social service and successfully engaged with local communities and has implemented several schemes to address developmental needs of the communities.

Introduction:

APL, Raigarh erstwhile Korba West Power company Limited, a unit of Adani Power Limited (APL) is a 1X600 MW coal based thermal power plant. The plant is located at village-Chhote Bhandar, PO- Bade Bhandar, Tehsil-Pussore, District- Raigarh, Chhattisgarh. 15 KM from Pussore tehsil and 25 KM from Raigarh district headquarter. The plant is on the National Highway- 153 (erstwhile NH- 216), east end Raigarh and west end Sarangarh/Saraipali connecting to Raipur, the state capital. The nearest railhead is at Raigarh. The airport is at Jharsuguda 105 KM and Raipur airport is at 225 KM.

In the year 2019, Adani Power Limited acquired erstwhile Korba West Power company Limited through Hon. NCLT, Ahmedabad and renamed Raigarh Energy Generation Limited (REGL).

Adani Power has always been committed to the cause of social service and has repeatedly channelized a part of its resources and activities such that it positively affects society socially, ethically, and environmentally. The company has taken up various corporate social responsibility initiatives and enhanced value in the society.

With the enactment of the Companies Act, 2013 a broad framework of CSR has been provided in section 135, schedule VIII of the Act and CSR Rules effected from January 2014. Thereafter various amendments made in the CSR Rules. Therefore, the company has formulated a robust CSR policy which encompasses its philosophy and guides its sustained efforts for undertaking and supporting socially useful programs for the welfare and sustainable development of the society. To this, the CSR policy of APL approved by the Board of Directors on 6th August 2014.

ADANI Foundation (AF) is the CSR arm of Adani Group of companies implementing CSR projects and activities at different locations in India focusing on Health, Education, Livelihood, Community Infrastructure Development, and Skill Development of the youths as specified in schedule VII of section 135 of Companies Act -2013 and CSR rules there under.

At APL, ADANI Foundation is implementing various CSR projects in 26 peripheral villages of the plant since acquisition of the plant.

Vision:

Improve Quality of life for all our communities through integrated and sustainable development

CSR & Group Values: -

Courage

To embrace new and innovative ideas for betterment of the society

Trust

Believe in all stakeholders

Commitment

Stand by our promises and adhere a high standard of work in all CSR activities.

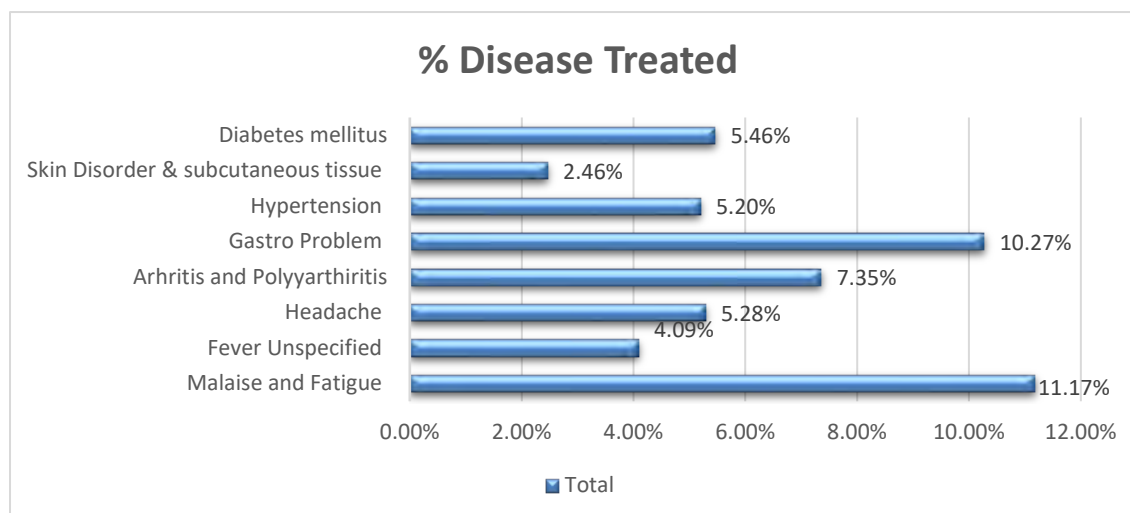
1.1 Community Health: - Mobile Health Care Unit (MHU):

Ensuring healthy lives and promoting well-being at all ages is essential to meet one of the global agenda of sustainable development goals (SDGs) and we are committed for holistic development of the communities where we operate with an aim to meet goals of SDGs. Quality health care services available free of cost and promote preventive and curative services at the doorsteps of villagers through Mobile Healthcare Unit (MHU) is one of the objectives of the project. The project is operational in 23 peripheral villages, visits villages on fixed schedule.



A Total 347 nos. rural health camps were organized in 23 villages through Mobile Medical Health Care Unit (MHCU). Total of 14174 beneficiary took benefits from this camp. in which 7471 female and 6703 males were health checked, and free medicines were distributed. Mostly patients related to heat, fever, cold, Ortho related, anemia, constipation, skin diseases, worm infection, constipation, osteoporosis, body ache, worms, infection etc. are getting benefited. Free diagnosis for diabetes and blood pressure is also being done in the camp. Total 1096 new patients were registered.

Sr. No.	Name of Villages	Male	Female	Total
1	Bade Bhandar	630	468	1098
2	Chhote Bhandar	554	727	1281
3	Amlibhouna	513	484	997
4	Jevridih	186	287	473
5	Sarwani	367	492	859
6	Barpali	312	220	532
7	Kathli	476	423	899
8	Tupakdhar	224	333	557
9	Bunga	407	506	913
10	Ranbhatha	165	297	462
11	Taparda	208	249	457
12	Supa	218	322	540
13	Kotmara	228	177	405
14	Kalma	307	292	599
15	Chandli	221	288	509
16	Amlipali	343	336	679
17	Shankarpali	194	216	410
18	Pusalda	429	438	867
19	Jatri	215	276	491
20	Tilgi	276	342	618
21	Chikhali	101	133	234
22	Semra	114	149	263
23	Thengagudi	15	16	31
	Total	6703	7471	14174



Awareness sessions for preventive healthcare:

MHU team conducted total 86 awareness sessions during the village visit for health camp. The primary objective of these awareness sessions is to generate awareness among the community on various health issues like lifestyle diseases, skin, water born disease, care for COVID 19, Tuberculosis (TB), schemes run by the government and facilitate villagers to link with Ayushman Bharat Yojana etc. in which 1398 persons participated from 23 nearby villages. Conducted 26 Home visits by the MHCU team for patients unable to reach the health camp site and 01 patients were referred for secondary treatment.

Sr. No.	Village Name	Awareness Session	Person Participated
1	Bade Bhandar	4	57
2	Chhote Bhandar	5	76
3	Amlibhouna	5	70
4	Jevridih	4	56
5	Sarwani	4	61
6	Barpali	5	79
7	Kathli	5	75
8	Tupakdhar	4	61
9	Bunga	4	71
10	Ranbhatha	3	53
11	Taparda	4	52
12	Supa	4	88
13	Kotmara	4	60
14	Kalma	5	82
15	Chandli	6	97
16	Amlipali	5	73
17	Shankarpali	3	48
18	Pusalda	3	70
19	Jatri	4	65
20	Tilgi	5	104
21	Chikhali	0	0
22	Semra	0	0
23	Thengagudi	0	0
	Total	86	1398

School health and awareness camps:

School health camps organized in 4 govt. schools for providing quality health care services to school students and to create awareness on cleanliness, personal health, and menstrual hygiene to adolescent girls of high and higher secondary school. Total 04 such camps organized where students 227 were benefitted with treatment to 163 students by our MHU team. This was appreciated by girl students, teachers, and parents. Total 206 HB test has been done during the school camps.



Important Day's Celebration: Observed World Breast Feeding Week

World breastfeeding week is celebrated every year from 1st to 7th August. The main aims are to inform, anchor, engage and galvanize action on breastfeeding and related issues. WBW was started in 1992 to generate public awareness and support for

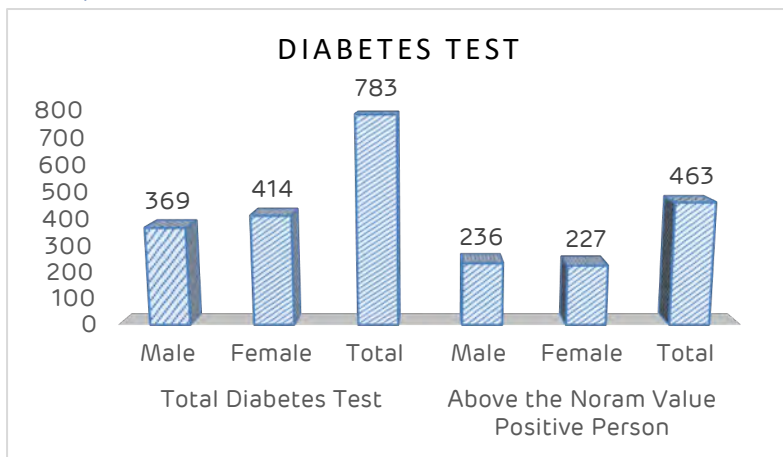


breastfeeding. Total five awareness sessions organized in five Awc of 5 nearby villages for improving the health of newborn babies and promoting, protecting, and supporting the rights of women to breastfeed anywhere and at any time. Total 227 lactating, pregnant women and child were actively participated.



Blood Sugar Level Test (Diabetes) Check-up

Blood sugar and Blood pressure is being tested and consultation is provided by MHU team. This has saved medical expenses of the villagers as the patients have to take medicines regularly for longer period. Out of 783 tests conducted, cumulative 463 (236 male and 227 female) were found diabetic, whose blood glucose level was found higher than the normal level (>140mg-dl). After the blood test result, proper consultation was given by MHU Doctor, and medicines provided. A total of 463 persons is suffering from Diabetes mellitus.

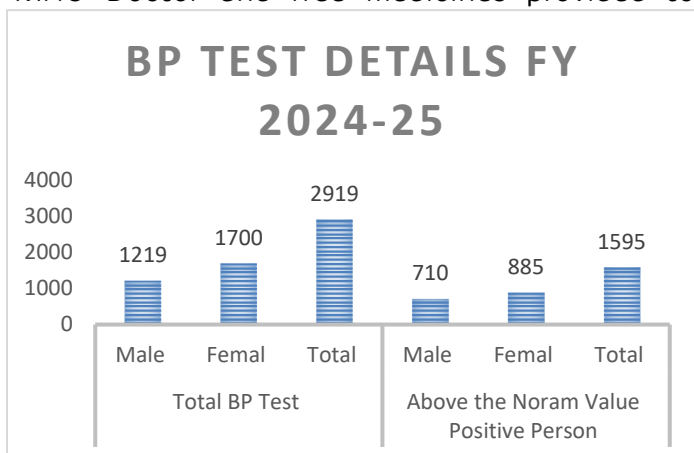


Blood Pressure Test (BP) Check-up

Out of 2919 test conducted during the period, 1595 (710 male and 885 female) tested were found blood pressure level above than normal value i.e., 80/120 (hypertension). After the blood pressure test, proper consultation was given by MHU Doctor and free medicines provided to

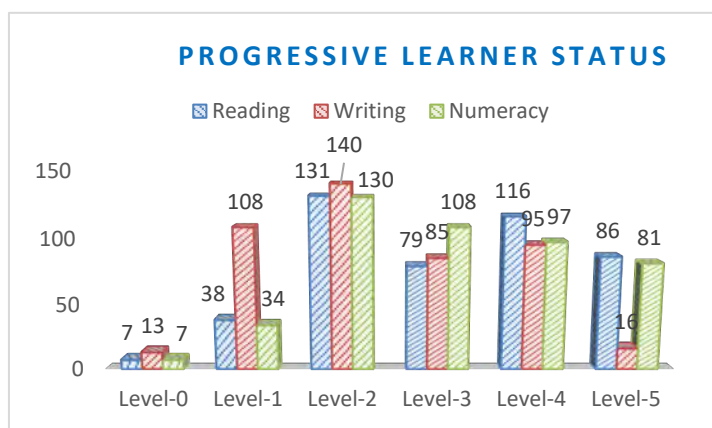


patients. Regular follow-up was done by our mobile health care unit (MHCU).



1.2 Education

Project Utthan launched by Adani Foundation in the month of January-2023 and implemented in 26 Govt. Schools of Bade Bhandar, Supa and Bunga Cluster of Pussore tahsil of Raigarh with objective of enhancing learning outcomes in elementary education and handhold the "Priya Vidyarthi's" (Progressive Learners). A total of 1033 students were enrolled for FY 2024-25. Total 12 nos. Utthan Sahayak will continue to enhance the education level of Progressive learner through joyful and fun based learning methodology.



This comprehensive intervention entails:

- Enhancing the teaching learning outcomes
- Empowering 'Priya Vidyarthi's' (Progressive Learners)
- Introducing English as a third language in class 1 to 4
- Arresting dropout rates
- Collaborating for teachers' capacity building and creating joyful learning spaces.

Outreach of Utthan:

SI	School name	Village Name	School Strength			Details of Deprived Community				
			Boys	Girls	Total	SC	ST	OBC	GEN	OTH
1	Govt. Middle School	Bade Bhandar	47	55	102	28	25	49	0	0
2	Govt. Pri. School	Bade Bhandar	25	19	44	22	7	15	0	0
3	Govt. Pri. School	Chhote Bhandar	6	9	15	0	3	11	0	1
4	Govt. Pri. School	Jevridih	5	14	19	6	2	11	0	0
5	Govt. Pri. School	Supa	4	4	8	1	0	7	0	0
6	Govt. Pri. School	Tupakdhar	8	6	14	2	1	11	0	0
7	Govt. Pri. School	Amlibhouna	23	17	40	0	38	2	0	0
8	Govt. Middle School	Kathli	12	19	31	2	15	14	0	0
9	Govt. Pri. School	Barpali	17	32	49	28	13	7	0	1
10	Govt. Pri. School	Sarwani	14	28	42	1	36	2	0	3
11	Govt. Pri. School	Kotmara	17	25	42	0	20	22	0	0
12	Govt. Middle School	Kotmara	14	7	21	2	9	10	0	0
13	Govt. Pri. School	Taparda	24	35	59	30	2	27	0	0
14	Govt. Middle School	Taparda	33	37	70	19	24	27	0	0
15	Govt. Pri. School	Ranbhata	26	29	55	18	18	19	0	0
16	Govt. Pri. School	Bunga	25	21	46	9	13	24	0	0
17	Govt. Pri. School	Bunga - Benu	23	11	34	4	14	16	0	0
18	Govt. Middle School	Bunga	46	48	94	4	26	62	0	2
19	Govt. Pri. School	Jiladi	5	4	9	0	9	0	0	0
20	Govt. Pri. School	Siladi	17	12	29	1	28	0	0	0
21	Govt. Pri. School	Thengagudhi	9	14	23	1	5	17	0	0
22	Govt. Pri. School	Supa	26	22	48	18	9	21	0	0
23	Govt. Middle School	Supa	40	34	74	26	25	23	0	0
24	Govt. Pri. School	Tilgi	14	19	33	7	15	10	0	1
25	Govt. Pri. School	Raiba	8	10	18	3	8	7	0	0
26	Govt. Pri. School	Raibar- NPS	7	7	14	8	3	3	0	0
Total			495	538	1033	240	368	417	0	8

At the beginning of the project, a baseline assessment conducted to know the learning level of the students studying in class 3 to 6 from 8 Primary and Middle schools was undertaken for Utthan Project. 100% of students of Class 3 to 6 were covered in baseline assessment, data shows that all surveyed students 457 fall under progressive learner.

Special Day Celebration in Govt School

During the period special days were celebrated like World Earth Day, World Environment Day, National Reading Day, International Yoga Day, Guru Purnima, International Plastic bag free day, Independence Day, Teacher's Day, Hindi Diwas, and Ozone Day under project Utthan and covered 1033 students of them 457 were progressive learners.



Various competition organized during the days like quiz, poster, essay writing, speech, poem, slogan writing, rangoli, mathematical games etc. it was observed that involvement of teachers increased in celebration of the activities and parents and stakeholder also actively participated in the day celebrations.



Summer Camp in Govt. School:

Organized summer camp in 08 Govt. schools to ensure that the students continue to practice learning and keep their interest in school during the month of April and June 2024. A total of more than 381 students/progressive learners participated and 93 parents were also participated. During the camp scholastic and non-scholastic activities like story writing, group reading, cross word, sudoku, origami, greeting card, drawing, Yoga etc. carried out by Utthan Sahayak for Joyful learning with more fun and creativity of students. The school management committee, parents and gram panchayat representative appreciated this initiative. The Department of education was providing support to organize this camp and involvement of schoolteacher is most vital reason for success of this initiative under the project Utthan.



Students enrolled for Jawahar Navodaya Vidyalaya (JNV) exam.

A total of 130 students were selected and enrolled for JNV exam of FY 2024-25 from 17 Govt. Primary School of Bade Bhandar, Supa and Bunga culster under project Utthan. The main objectives of this program are to provide educational support to selected students for preparation of Jawahar Navodaya Vidyalaya (JNV) exam. JNV Vidyalaya is famous for providing good quality modern education to the children predominantly from rural areas, without regard to their family's socio-economic condition.



Enriched reading corner to develop reading habits - facilitated 1033 students:

Stories and reading are an important part of child growth and development. Reading encourages:

- Children to build vocabulary.
- Derives connections between stories and their own lives.
- Understand how different people think about different things.
- Encourage students to express themselves more freely.



Mothers meeting in school

Under Project Utthan, a total of 29 mother meetings were organized in 26 government schools. The main objective of the meeting is to monitor and enhance the academic progress of the child. These mother meetings provide a platform to teachers/enlightenment assistants to provide detailed feedback on the child's performance, academic achievements and areas requiring additional attention. During these meetings some fun activities are also organized for the participating mothers.



A total of 254 mothers from 20 peripheral villages participated in these meetings. All the mothers, schoolteachers and Panchayat representatives appreciated this initiative and it is becoming a medium to establish better coordination between mothers and children.



1.3 Sustainable Livelihood Development

Kamdhenu- Dairy Development Project:

The Kamdhenu- dairy Development Project launched on 22.10.2022, the following services provided through one Livestock Development Center (LDC) established at village Chhote Bhandar. Covered total 1599 cattle of 789 livestock farmers from 26 nearby villages.

- Breed development by artificial insemination (AI)- conventional semen and sorted semen by trained AI technician, pregnancy diagnosis.
- Training to farmers on cattle management-improved practices for rearing
- Veterinary camp and vaccination
- Fodder development- distribution of fodder for demonstration.
- Awareness generation on animal husbandry

Artificial insemination (AI):

A total of 396 artificial inseminations were done in 26 peripheral villages, out of which 344 were sorted semen and 52 were conventional semen was done from April 2024 to September 2024.

- Total 394 Pregnancy diagnosis conducted after three months of AI and 249 no. PD confirmed from April 24 to September 24. Total 95 nos. new improved calves born till September 2024.
- The highest number of AI was done in village Ruchida- 61(15.40%) followed by Raibar- 30(7.58%), Chikhli- 28(7.07%).

SL	Name of Villages	Farmers Bene.	Sorted Semen	Conventional Semen	Total No. of AI
1	Bade Bhandar	5	7	0	7
2	Chhote Bhandar	15	25	0	25
3	Amlibhouna	2	1	2	3
4	Jevridih	3	4	0	4
5	Sarwani	11	11	0	11
6	Barpali	2	2	0	2
7	Kathli	12	16	1	17
8	Tupakdhar	0	0	0	0
9	Bunga	22	19	5	24
10	Ranbhatha	6	8	2	10
11	Taparda	5	4	1	5
12	Supa	14	24	3	27
13	Kotmara	4	7	1	8
14	Kalma	10	14	1	15
15	Chandli	7	11	2	13
16	Amlipali	9	4	5	9
17	Sankarpali	12	15	0	15
18	Pusaldsa	17	15	3	18
19	Tilgi	21	22	3	25
20	Thengagudi	0	0	0	0
21	Badimal	9	6	5	11
22	Jatri	5	7	0	7
23	Karichapar	12	14	2	16
24	Chikhli	22	27	1	28
25	Ruchida	44	50	11	61
26	Raibar	23	26	4	30
27	Birhabhata	3	5	0	5
Total		295	344	52	396

Livestock Management Training:

To provide knowledge on improved livestock management- feeding, calf upkeeping, clean milk production and healthcare, a total of 11 training session were successfully organized in 07 villages. Total 460 farmers were actively participated in these sessions.



Free Livestock Vet. Health camps:

Veterinary health camps were organized in ten villages namely Amlibhouna, Chandli, Kalma, Chhote Bhandar, Tehngagudhi, Amlipali, Sarwani, Barpali, Supa and Kotmara villages in which total 3715 cattle (Small ruminants – 2502 and large ruminants- 1213) were treated free of cost including deworming, sterilization and vaccination were done. Additionally, 62 infertility cases were addressed. Overall, 234 farmers directly benefited from these camps.

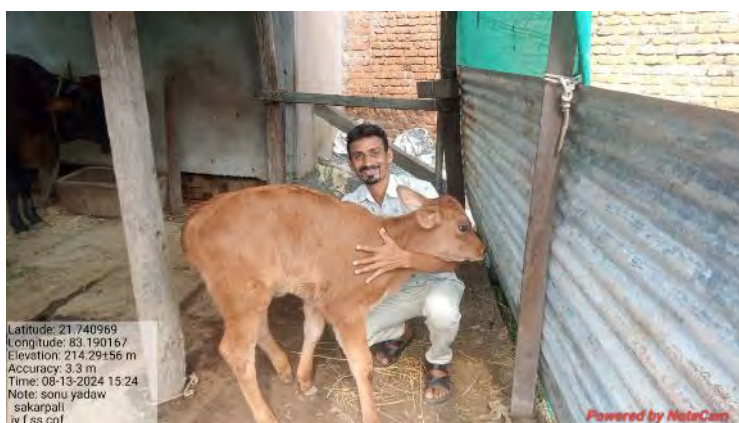


Fodder demonstration:

To sensitize the importance of fodder to increase productivity fodder named cowpea and Pearl Millet distributed to 39 farmers of eight peripheral villages. Cropping is done in total 5-6 acres area. Pearl millet is the principal energy source used in dairy farming because of its high-energy value, palatability, presence of pigments and essential fatty acids.

New Improved Calve Born:

396 artificial inseminations were done in 26 peripheral villages, out of which 344 were sorted semen and 52 were conventional semen was done from April 2024 to September 2024. A Total of 95 new improved calves were born, including 67 female calves. Overall, 96 livestock farmers benefited.



Adani's Mahila Movement for Advancement (AMMA): Women in Micro Enterprises- Vegetable Cultivation:

Adani Foundation is continuously empowering women to improve their livelihood. Total 39 women members from 23 SHGs involved in vegetable cultivation through drip irrigation in total 6.50 acre of land of Supa, Barpali, Jevridih and Taparda villages.

Total 13 SHG; Supa (8 SHG- 17 members) and Barpali (5 SHG-8 members) received 4.50 acres of land from village Gauthan Samiti free of cost for 3 years and Similarly in Jveridih and Taparda (10 SHG-14 members) received land from Mr. Lalit Pradhan- Bade Bhandar and Bhuneshwar Mahant Taparda villages an annual ledge basis. They have started land preparatory



work for cultivation of Tomato (Variety –Saho) through drip irrigation technology in approx. 6.30 Acre land. Land preparation, basal, mulch and bed preparation work has been completed in Supa and Jevridih villages. Land Preparation work is progress at Barpali and Taparda with support and guidance from Adani Foundation. Adani Foundation supported for supply and installation of mulching, farm machinery, equipment's, manure, fertilizers, pesticides, and improved seeds/seedlings. In village supa They produced 2500 kg of bitter gourd, generating sales worth ₹55155. The 10-day training on vegetable cultivation, conducted in collaboration with SBI-RSETI Raigarh, empowered 23 SHGs to engage in vegetable farming.

Community Contribution:45% towards their labour, equipment's, manure, fertilizers, pesticides, and improved seeds/seedlings. staking materials, pump maintenance, electricity etc.

Women in Micro Enterprises- Mushroom Farming

Among the different off farm income generation enterprises, the mushroom farming plays a crucial role in case of enhancing income of the women. During the period organized two-days training workshop on paddy straw mushroom farming for 47 SHG members of 10 SHGs from 8 villages. Also provided information on cost benefit and marketing strategy for paddy straw mushroom. The training, conducted in collaboration with SBI-RSETI Raigarh, enabled 10 SHGs to start paddy straw mushroom production.



They produced 326.67 kg of mushrooms, generating sales worth ₹91468. Upon completing the training, all participants received certificates.



Women's Empowerment- SHGs Meeting

In line with the State Policy, the project's focus on working with and strengthening groups of poor women is based on the social mobilization and empowerment approach that seeks enhancement of women's access to productive assets and their capacity to participate in social change processes and to negotiate with, influence, and hold accountable key institutions and decision-making structures that affect their lives. The project of sustainable livelihood is focused on formation and strengthening of self-help groups.



180 Self Help Groups (SHGs) meeting was held in 15 villages where a total of 754 members participated in the meeting.

Apparel Making Unit (Darji Project):

An effort made to form a group of 10 to 15 girls who have received tailor training start group business by taking order from individual and market. Adani foundation helped in providing basic infrastructure support like commercial electric sewing machine, raw materials, marketing, and product selling. Group has formed namely Mahila Udyam Vikas Smiti and tri-party agreement has been done between Gram Gauthan Samiti, Mahila Udyam Vikas Samiti and AF. Materialistic and technical support provided by AF and Under RIPA Project, Village Gauthan Samiti -SUPA has provided a working shed to this group for 25 years for business expansion.



At present team was expert on making in School uniform, Salwar Suit, Designer Blouse, Petticoat, Gown, Mask, School Bag, Mobile Carry Bag, Travel Bag, Shirt Paint etc. Since the inception of the

production cum training unit until September 2024, they have stitched items worth a total of ₹2.37 lakhs.

1.4 Climate Action

Mass Plantation:

During this period, a total of 5050 saplings of fruit and indigenous species were planted in 18 peripheral villages under the mass plantation (100 million tree plantation) campaign for the financial year 2024-25. The main objective of the campaign is to make people aware of environmental conservation and to motivate them to plant trees in their backyards, community places, government institutions, Gothan and Govt. Schools. Every single tree contributes to their environment by providing oxygen, improving air quality, climate amelioration, conserving water, preserving soil, and supporting wildlife.

Tree Plantation Details 23-24

- Community Places: 1000 Tree Planted
- Gothan – 2500 Tree Planted
- ITI Sariya – 50 Tree Planted
- SHG Members/Individual: - 1500 Fruit Plant was distributed to 258 SHG members/individuals



Pond Deepening:

Excavated two ponds of Jevridih and Ranbhata villages to increase rainwater retention capacity by total 13577.61 CUM. This will help in water conservation / ground water recharge and stop the overflow of the water. Villagers of these three are using the water from this pond for various daily routine works.



1.5 Community Development

Construction of community Shed:

Mahadevpali Village

In Mahadevpali, the villagers organize their social, cultural programs and gatherings throughout the year. As per request of gram panchayat Kalma community shed constructed near beech basti for community use to perform various social and religious programs and activities Total 259 people of Mahadevpali



benefitted of the shed. The center can be utilized for organizing social functions, meetings, and training programs etc.

Construction of community Shed: Chandrapur Village

In Chandrapur, the villagers organize their social, cultural programs and gatherings throughout the year. As per request of Nagar panchayat community shed constructed near ward no. 11 and 12 for community use to perform various social and religious programs and activities Total 758 people of Chandrapur benefitted of the shed. The center can be



utilized for organizing social functions, meetings, and training programs etc.

Blood Donation Drive

AF CSR team actively participated in blood donation camp organized in collaboration with IndianRed Cross Society- Raigarh and Fortis Hospital, Jindal- Raigarh on the birthday of our Hon. Chairman on 24th June at APL site. A total of 266 employees and workers donated blood for the noble cause.



Observed AF Foundation Day

Adani Foundation Day is celebrated annually on August 11th. This year, AFHO plans to hold the celebration virtually. A short video showcasing the culture, traditions, messages from business leaders, and CSR activities from each area of the Adani Foundation was prepared and presented online for the occasion.



Utthan Khel Kumbh

Celebration of National Sports Day:

National Sports Day is observed every year on 29th August. To encourage girls in sports and games, a 4 Km marathon was organized for the girls from APL campus from main gate to fire station, about 80 schoolgirls from 10 villages enthusiastically participated in this event. The program was inaugurated by Mr. Deenbandhu Sidar, Sarpanch Representative-Bade Bhandar village, Mr. Yogesh Chouhan -



Sarpanch Representative -Chhote Bhandar, Mr. Dharam Singh, Mr. Yaswant Pradhan Upsarpanch , Mr. Firtu Ratre in presence. District sports officer Raigarh and school staffs, students, sports teachers, and Security team APL were present.

Kabaddi Training:

In Year 2022 on International Girls' Child Day dated 11.10.2022 launched free Kabaddi training program for girls. The main objective of the training program is training local girls to participate in district, state, and national level Kabaddi tournament, develop and encourage girls as valuable player, sportspersons in the society. After pre- selection test out of 75, total 50 girls were selected from 05 different schools of 10 nearby villages. A total of 21 Kabaddi training sessions were organized from April to September 2024, with state-level Kabaddi coaches providing the training. Fourteen girls from the program participated in the district-level Chakradhar Samaroh Kabaddi tournament held in Raigarh from September 12 to 14 September 2024. They finished as runners-up, winning a trophy and prize money.



Additionally, two girls were selected for the state-level school Kabaddi tournament.

Media Coverage

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Adani Foundation fetes teachers in Raigarh's Pusaur, Tamnaar



Glimpses of Teachers' Day celebration organised by Adani Foundation in Raigarh district.

The Hitavada State Bureau
RAIPUR, RAIGARH, Sep 7

ON THE occasion of Teachers' Day, Adani Foundation, under its flagship education initiative 'Udhan Project', organised a grand event to honour educators from 26 government primary and pre-middle schools in Pusaur and Tamnaar blocks of Raigarh industrial district. The foundation paid tribute to 40 retired teachers, 90 current teachers, and 11 Udhan assistants who have played a significant role in shaping the lives of students in the region.

The ceremony, held at Bunaga and Jevardih, saw an enthusiastic gathering of teachers, students, and community leaders. Shri Akash Mishra, District Panchayat member, graced the occasion as the chief

guest and felicitated the educators with shawls and coconuts, symbolising respect and gratitude. He praised Adani Foundation's continuous efforts to uplift education through the Udhan Project, saying, "Honouring teachers is our moral duty, and this initiative allows us to express our deep appreciation for their invaluable contributions."

Simultaneously, in Tamnaar's Miltupara village, another celebration took place, where 21 teachers were honoured. The educators hailed from Miltupara and Sidhura government schools, and the event became even more vibrant with the participation of over 250 students who performed traditional dances, songs, and plays. Their performances added a delightful cultural

touch, reflecting their admiration for their mentors. The programme saw presence of dignitaries including Mukesh Kumar, Chief Manager of Adani Foundation, and Vipin Singh, Mines Head, Kumar highlighted the foundation's unwavering commitment to advancing education, stating, "At Adani Foundation, we prioritise education. Recognising and honouring the efforts of teachers through such programmes is a part of our responsibility towards the community." Students showcased their respect for teachers by presenting greeting cards and posters. These gestures, along with captivating cultural performances, made the occasion a memorable one, moving many teachers to tears as they reflected on their journey.

अदाणी फाउंडेशन ने किया शिक्षकों का सम्मान

40 सेवानिवृत्त शिक्षक, 90 कार्यरत शिक्षक और 11 उद्यम सहायक हुए सम्मानित



रायपुर: शिक्षक दिवस के अवसर पर अदाणी फाउंडेशन के योगदान कार्यक्रम के तहत अदाणी फाउंडेशन ने अपने प्रमुख शिक्षा कार्यक्रम 'उद्यम प्रोजेक्ट' के अंतर्गत क्षेत्र के सभी 26 सरकारी प्राथमिक एवं पूर्व-मध्यमिक स्कूलों के शिक्षकों का श्रद्धांजलि कार्यक्रम आयोजित किया। अनेक वर्षों से शिक्षकों को इस पालन की साहजिक करते हुए, स्कूलों का समर्थन करना हमसय कर्तव्य है। अदाणी फाउंडेशन द्वारा इस कार्यक्रम के माध्यम से हमें अपने शिक्षकों के प्रति आभार व्यक्त करने का अवसर प्राप्त रहा है। शिक्षा के क्षेत्र में अदाणी फाउंडेशन एक विश्व को और 'उद्यम प्रोजेक्ट' एक परिवर्तन ला रहा है। कार्यक्रम के अंतर्गत 40 सेवानिवृत्त शिक्षकों, 90 कार्यरत शिक्षकों और 11 उद्यम सहायकों को सम्मानित किया गया।

रायपुर: शिक्षक दिवस के अवसर पर अदाणी फाउंडेशन के योगदान कार्यक्रम के तहत अदाणी फाउंडेशन ने अपने प्रमुख शिक्षा कार्यक्रम 'उद्यम प्रोजेक्ट' के अंतर्गत क्षेत्र के सभी 26 सरकारी प्राथमिक एवं पूर्व-मध्यमिक स्कूलों के शिक्षकों का श्रद्धांजलि कार्यक्रम आयोजित किया। अनेक वर्षों से शिक्षकों को इस पालन की साहजिक करते हुए, स्कूलों का समर्थन करना हमसय कर्तव्य है। अदाणी फाउंडेशन द्वारा इस कार्यक्रम के माध्यम से हमें अपने शिक्षकों के प्रति आभार व्यक्त करने का अवसर प्राप्त रहा है। शिक्षा के क्षेत्र में अदाणी फाउंडेशन एक विश्व को और 'उद्यम प्रोजेक्ट' एक परिवर्तन ला रहा है। कार्यक्रम के अंतर्गत 40 सेवानिवृत्त शिक्षकों, 90 कार्यरत शिक्षकों और 11 उद्यम सहायकों को सम्मानित किया गया।

कार्यक्रम को सफल बनाने में अलग-अलग छात्रों ने उद्यम प्रोजेक्ट और विद्यार्थी सहायक के रूप में योगदान दिया है। अदाणी फाउंडेशन ने 'उद्यम प्रोजेक्ट' का उद्देश्य शिक्षकों को सम्मानित करना और उनके योगदान को पहचानना है। कार्यक्रम के अंतर्गत 40 सेवानिवृत्त शिक्षकों, 90 कार्यरत शिक्षकों और 11 उद्यम सहायकों को सम्मानित किया गया।

हरिभूमि

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7 भारत भास्कर

छत्तीसगढ़

असपास के 26 गांवों में अदाणी फाउंडेशन के सामाजिक विकास कार्यक्रमों से हो रहा सुखद बदलाव

अदाणी पावर रायगढ़ की आजीविका विकास कार्यक्रमों से आत्मनिर्भर बनता विकासखंड पुसौर

पशुधन शिविर में 1200 मवेशियों का स्वास्थ्य परीक्षण

रायगढ़। अदाणी फाउंडेशन द्वारा जिले के पुसौर विकासखंड में किसानों के पशुधन के लिए स्वास्थ्य शिविर एवं नस्ल सुधार जागरूकता कार्यक्रम का आयोजन किया गया।

अदाणी पावर लिमिटेड रायगढ़ के सामाजिक सहायिता के तहत पास के ग्रामों में देशी गावों में नस्ल संवर्धन और दुग्ध उत्पादन में वृद्धि के लिए आयोजित शिविर का उद्देश्य पशुपालकों को आय में वृद्धि कराना था। अदाणी फाउंडेशन के मार्गदर्शन में पशुधन विकास के क्षेत्र में अग्रणी संस्था बायफ द्वारा बीते सोमवार को ग्राम अमलीभौना, चंदली, कलमा, छोटे भंडार और टेंगागुद्ध में निःशुल्क पशु स्वास्थ्य जांच एवं उपचार शिविर सहित पशुपालकों के लिए डेवरी प्रशिक्षण कार्यक्रम का आयोजन किया गया। शिविर में कुल 93 पशुपालकों के 1216 पशुओं का स्वास्थ्य परीक्षण कर उन्हें निःशुल्क दवाइयों दी गयी। साथ ही किसानों को कृत्रिम गर्भाधान और पशुपालन के संबंध में जागरूक करने हेतु एक दिवसीय प्रशिक्षण कार्यक्रम भी आयोजित



किया गया, जिसमें कुल 261 पशुपालकों ने भाग लिया। इस कार्यक्रम ग्राम अमलीभौना के उपसरपंच प्रतिनिधि ओशराम सिदार, ग्राम कलमा की सरपंच श्रीमती उमा बाई नंदे, श्री पंकज कुमार नंदे ग्राम छोटे भंडार से भोजराम पटेल, धरम सिंह, योगेश चौहान सहित अन्य स्थानीय गणमान्य व्यक्तियों ने हिस्सा लिया। शिविर को सफल बनाने में बायफ टीम के वरुण तिवारी, अजय साहू, पूर्वोपे मंत्री अदाणी फाउंडेशन से मिलेश कुमार महाना और सोमप्रभा गोस्वामी का योगदान सराहनीय रहा।



रायगढ़, आ काशीर पांच को का सामाजिक विकास के रूप में अदाणी फाउंडेशन के योगदान कार्यक्रम के तहत अदाणी फाउंडेशन ने अपने प्रमुख शिक्षा कार्यक्रम 'उद्यम प्रोजेक्ट' के अंतर्गत क्षेत्र के सभी 26 सरकारी प्राथमिक एवं पूर्व-मध्यमिक स्कूलों के शिक्षकों का श्रद्धांजलि कार्यक्रम आयोजित किया। अनेक वर्षों से शिक्षकों को इस पालन की साहजिक करते हुए, स्कूलों का समर्थन करना हमसय कर्तव्य है। अदाणी फाउंडेशन द्वारा इस कार्यक्रम के माध्यम से हमें अपने शिक्षकों के प्रति आभार व्यक्त करने का अवसर प्राप्त रहा है। शिक्षा के क्षेत्र में अदाणी फाउंडेशन एक विश्व को और 'उद्यम प्रोजेक्ट' एक परिवर्तन ला रहा है। कार्यक्रम के अंतर्गत 40 सेवानिवृत्त शिक्षकों, 90 कार्यरत शिक्षकों और 11 उद्यम सहायकों को सम्मानित किया गया।

चक्रधर समारोह में कबड्डी के फाइनल मैच में उपविजेता बना अदाणी फाउंडेशन

अदाणी फाउंडेशन के सहयोग से खिलाड़ियों को मिली है राष्ट्रीय स्तर की पहचान : सांसद राठिया

राजपूत। पञ्चम स्मारक के अंतर्गत तीन दिवसीय कबड्डी प्रतियोगिता का समापन केंद्रवार को हो गया। इस अवसर में विभिन्न खेलों और खेल कर्तों को कुल 20 टीमों ने भाग लिया। इस मौके पर लोकमान्य सहाय जी राष्ट्रीय स्तर पर प्रथम स्थिति के रूप में उपविजेता रहे। अदाणी फाउंडेशन सुवर्ण और रजत फाउंडेशन, स्वर्णार के बीच पहिले प्रथम का स्वर्णस्त मुकामका हुआ, जिसमें अदाणी फाउंडेशन को टीम में प्रतिनिधित्व का विचार प्रोत्साहित किया। फाउंडेशन स्तर 18-15 वर्ष, जिसमें अदाणी फाउंडेशन को टीम ने अपने उपकार प्रदान में सभी को हित प्राप्त किया।



फाउंडेशन को टीम विजेता बना की और इस मूल प्रथम प्रथम प्रथम में प्रतिनिधित्व का नाम प्राप्त किया। इस अवसर पर सांसद जी राष्ट्रीय स्तर पर प्रथम स्थिति के रूप में उपविजेता रहे। अदाणी फाउंडेशन सुवर्ण और रजत फाउंडेशन, स्वर्णार के बीच पहिले प्रथम का स्वर्णस्त मुकामका हुआ, जिसमें अदाणी फाउंडेशन को टीम में प्रतिनिधित्व का विचार प्रोत्साहित किया। फाउंडेशन स्तर 18-15 वर्ष, जिसमें अदाणी फाउंडेशन को टीम ने अपने उपकार प्रदान में सभी को हित प्राप्त किया।

अनेक श्रेणी और अंतर्राष्ट्रीय स्तर पर पहचान दिलाने के लिए अदाणी फाउंडेशन का उद्देश्य है कि खेल खेल के क्षेत्र में, बालक सामाजिक स्तर पर भी एक महत्वपूर्ण कदम है। इस अवसर पर कबड्डी खेल के अर्थ में सुवर्ण और रजत फाउंडेशन सुवर्णार के बीच पहिले प्रथम का स्वर्णस्त मुकामका हुआ, जिसमें अदाणी फाउंडेशन को टीम में प्रतिनिधित्व का विचार प्रोत्साहित किया। फाउंडेशन स्तर 18-15 वर्ष, जिसमें अदाणी फाउंडेशन को टीम ने अपने उपकार प्रदान में सभी को हित प्राप्त किया।

ग्राम छोटे भंडार और रणभाटा में किया गया तालाबों का गहरीकरण

पर्यावरण और जल संरक्षण के लिए अदाणी फाउंडेशन ने करवाये तांलाबों का जीर्णोद्धार

राजपूत। अपने निर्गमन सामाजिक उत्तरदायित्व (सीएसआर) कार्यक्रम के तहत अदाणी फाउंडेशन द्वारा अदाणी पॉवर लिमिटेड रायगढ़ के पास के ग्राम छोटे भंडार और रणभाटा में तालाबों का जीर्णोद्धार करवाया गया है। ग्रामों में जल और पर्यावरण संरक्षण को बढ़ावा देने के उद्देश्य से की गई इस पहल से स्थानीय किसानों और प्रमोदों को उनके महत्वपूर्ण दिनचर्या में लाभ होगा।



इस परियोजना के अंतर्गत ग्राम पंचायत रणभाटा और वेवरीडीह के स्वाम्य मुखे तालाबों का गहरीकरण किया गया, जिसमें 13,247.61 स्क्वियर मीटर क्षेत्र को पुनर्विनिर्माण किया गया। इस प्रयत्न में जल संचयन को सुधारा तो सुरक्षा और सुरक्षा के लिए कार्यवाही में सुधार हुआ। इसके साथ ही, अदाणी पावर ने इन तालाबों के किनारों पर छवदार पीछे लगाने का भी प्रस्ताव रखा है, जो पर्यावरण संरक्षण को और अधिक मजबूत करेगा। वहाँ कठ, ऊर्जा और पर्यावरण संरक्षण के लिए अदाणी पावर के इस वर्ष

2 लाख पीछे लगाने के लक्ष्य को इनके मध्यम से पूर्ण करने के साथ-साथ क्षेत्र में सतत विकास को दिशा में एक महत्वपूर्ण कदम है।

अदाणी फाउंडेशन ने स्थिति विचार करते हुए इस वर्ष कुल में ही कार्य शुरू कर दिया था, जिसमें ग्राम छोटे भंडार को संचयन प्रकल्प चोहान और रणभाटा को संचयन प्रकल्प चोहान द्वारा इन दोनों तालाबों के गहरीकरण और मजबूत कार्य पूर्ण होने के उद्देश्य के तहत कार्यक्रम में ग्राम छोटे

पर्यावरण की रक्षा करना सबसे बड़ी चुनौती

अदाणी पावर के सीएसआर प्रमुख प्रदीप कुमार ने कहा, जल संरक्षण, कृषि को विकसित करना और पर्यावरण को रक्षा करना हम सभी के लिए समरे बड़ी चुनौतियाँ हैं, इस पहल के माध्यम से अदाणी पावर लिमिटेड ने केवल प्रमोद

समुदायों को समर्थनों का समाधान किया है, बल्कि जल और पर्यावरण संरक्षण के प्रति अपनी प्रतिबद्धता को भी प्रदर्शित किया है। प्रमोदों के लिए यह परियोजना जीवन में सुधार का एक प्रमुख कदम मानित होगी, जिसमें उनकी आजीविका और पर्यावरण दोनों सुरक्षित होंगे। इस मौके पर सीएसआर विभाग में परमेश्वर गुप्ता और सचिव इंदीरावती सौरभ अग्रवाल सहित स्थानीय प्रमोदों का सम्पर्क भी हुआ। ग्राम के संचयनों ने इस पहल को चुनौतियाँ से निपटने के लिए एक सकारात्मक दिशा में उदाहरण गये महत्वपूर्ण कदम बताया है।

अदाणी फाउंडेशन ने पुसौर ब्लॉक में आयोजित किया विश्व स्तनपान सप्ताह



रायगढ़ @किरणपट्टा
विश्व स्तनपान सप्ताह के अवसर पर जिले के पुसौर ब्लॉक में अदाणी फाउंडेशन द्वारा पहली से सात अलग-अलग जागरूकता कार्यक्रमों का आयोजन किया गया। अदाणी पावर लिमिटेड रायगढ़ के सामुदायिक सहभागिता के तहत आयोजित इस सात दिवसीय जागरूकता कार्यक्रमों का आयोजन हेल्पपेज ड्रॉइंग और महिला एवं बाल विकास विभाग, पुसौर के स्नेह प्रयासों से गांवों के आंगनवाड़ी केंद्रों और सामुदायिक भवन में किया गया। इनमें ग्राम छोटे भंडार, अमलीपौना, खुन्गा, पुनसदा और टपसदा सहित आसपास के अन्य गांवों की कुल 144 शिशुवती और गर्भवती महिलाओं का स्वास्थ्य परीक्षण कर उचित तरीके से स्तनपान कराने के तरीके सिखाए गए। इस कार्यक्रम का उद्देश्य स्तनपान के महत्व और इसके फायदों के प्रति

जागरूकता बढ़ाना था। इस दौरान रायगढ़ के प्रसिद्ध राजपिप अस्पताल की स्त्री एवं प्रसूति रोग विशेषज्ञ डॉ. उमा अग्रवाल ने स्तनपान के महत्व और ब्रेस्ट फीडिंग के बारे में विस्तृत जानकारी दी। डॉ. अग्रवाल ने बताया शिशु के जन्म के बाद स्तनपान एक स्वाभाविक क्रिया है, लेकिन पहली बार माँ बनने वाली महिलाओं को इसे सही तरीके से कराने में सहायता की आवश्यकता होती है। साथ ही स्तनपान न केवल शिशु के लिए आवश्यक पोषण और रोग प्रतिरोधक क्षमता प्रदान करता है, बल्कि माँ के स्वास्थ्य के लिए भी लाभदायक होता है। इस अवसर पर ग्राम बड़े भंडार के सरपंच प्रतिनिधि दीनबंधु सोदा, मितानिन बाल कुमार, फूलनबाई आंगनवाड़ी कार्यकर्ता रीता प्रधान, रुक्मणी चौहान एवं स्वयं भाई चौहान के साथ अन्य मितानिन और आंगनवाड़ी कार्यकर्ता भी उपस्थित रहे।

कौशल विकास और ढांचागत विकास के क्षेत्र में काम कर रहा अदाणी पाँवर

पुसौर ब्लॉक के 26 गांवों में अदाणी फाउंडेशन के सामाजिक विकास कार्यक्रमों से हो रहा सुखद बदलाव

राजपूत। पुसौर (हर) कार्पोर संस्था को एक सामाजिक जिम्मेदारी है कि वह अपने विकास के साथ-साथ समाज के कल्याण में भी अपने भागीदारों को निरूपित। इन जिम्मेदारियों को ध्यान में रखते हुए अदाणी पावर अपने संस्थानों व परियोजनाओं के माध्यम से क्षेत्रों में शिक्षा, स्वास्थ्य, स्थानीय आजीविका, कौशल विकास और ढांचागत विकास के क्षेत्र में सकारात्मक कर रहा है। इसी कड़ी में रायगढ़ जिले के पुसौर विकासखंड में स्थित अदाणी पॉवर लिमिटेड, ग्राम छोटे भंडार, चंभे भंडार, बजाली, सुण, अमलीपौना, तुम्बकर, चंदली, नेचोरीडीह सहित कुल 26 गांवों के मानव विकास में सामाजिक स्थितिगत के विभिन्न कार्यक्रमों के माध्यम से क्षेत्र के विकास के लिए लातार प्रयास रहे, जिसमें अधिक से अधिक लोगों को अर्थी शिक्षा, आजीविका और स्वास्थ्य सेवाओं से जुड़ने का अवसर प्राप्त हुआ।



सहयोग टपक (टिप) सिंचिर्वा बंधिका, संघ वीर, उर्वरक इत्यादि हेतु सहयोग और तकनीकी मार्गदर्शन प्रदान किया जा रहा है। इसके तहत ग्राम प्राय पर्यायी सुख और वेवरीडीह के महिलाओं द्वारा टायर को खरी को जा रही है। इन वर्ष में कुल 71331.50 किलो टपक का उत्पादन कर रुपये 9.47 लाख में निष्कर्ष का अर्थ अर्जित किया गया है।

मस्जिद का उत्पदन कर 2.34 लाख की अर्थ अर्जित
अजीविका विकास कार्यक्रम के अंतर्गत ग्रामों क्षेत्र की महिलाओं को आय मूलक गतिविधियों से जोड़ने हेतु बास के वात श्रावों के कुल 12 स्वयं सहाय सहायता समूहों को उन्नत विधि से स्वकी उपदन कार्य करने हेतु माँ आवश्यक

अर्थ के वेहतर संसाधन विकसित करने हेतु कुल 28 कक्षाओं का बजरा बर अजीविका विकास कार्यक्रम के तहत दो पाठ का प्रशिक्षण कार्यक्रम में प्रतिष्ठित किया गया है। इसके साथ ही प्रशिक्षण प्राप्त कर रहे 15 कुक्षरों को आँडोश के बरपलौ जिले में स्थित श्री नवबंधु रक्षा के टायरवाट प्रशिक्षण लड़ उत्पादन केंद्र का एक टिपसिप शैक्षणिक अग्रण करवा गया जाके वे वर्षों के स्थायी करनवरों में इन कुक्षरों को भांडेरिंग के संघर्ष में बनकर प्राप्त करें। इन्होंने इस कला के प्रदर्शन के लिए इन्होंने नया टायर में आर्थोनाट द्वारा मेल में प्राप्त लेखर अपने टायरवाट उद्योगों का प्रदर्शन एवं विकास कर अर्थ अर्जित भी किया।

Adani Power Ltd., Raigarh

Annexure III

Green Belt Development

Plantation	Details
Density of plantation	4000 plants/ Hectare
Total no. of plantation	3,10,000 Nos.

Total Area of Plant (Acre)	Greenbelt Area Development within Plant premises (Acre)	Total No. of plantation	% of survival tree species inside the Plant/Mine	Species planted inside the Plant Premises	Location of Plantation
487	195 Acre	3,10,000	(>80%)	Mango, Guava, Pomegranate, Lemon, Chiku, Jackfruit, Amla, Coconut, Ber, Jamun, Mulberry, Bel, Custard Apple, Teak, Bamboo, Gulmohar, Neem, Peltophorum, Shisham, Cassia siamea, Karanj, Casurina, Khamhar, Acacia, Mahogany, Arjuna, Chatwwan, Ashoka, Molshree, Amaltas, Krishnabat, Kalptaru, Peepal, Spathodea, Jacaranda, etc.	Coal parking area, reservoir, Kalma Pump house, Ash dyke, Main gate, along the coal transportation Road, CCR building, Switch yard, DM plant, Occupational Health center, Nursery, Canteen, Plantation at Guest House Premises & others

Adani Power Limited, Raigarh

Annexure IV

Ash Generation and Utilization Details (April'2024 to September'2024)					
Month	Ash Generation (MT)	Ash Utilization		Total Ash Utilization (MT)	Utilization (%)
		Cement Industries (MT)	Filling of Abandoned Stone Quarry (MT)		
April'2024	136179	0	51834	51834	38.06
May'2024	146337	0	56738	56738	38.77
June'2024	138190	0	97847	97847	70.81
July'2024	115427	0	27149	27149	23.52
August'2024	116670	0	57671	57671	49.43
September'2024	077094	0	38909	38909	50.47
Total	729897	0	330148	330148	45.23

adani

Power

Ref : APL/Raigarh/Env/CECB/208/24

Date: 20.08.2024

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 600 (1x600) MW Thermal Power Plant at villages Chhote Bhandar, Bade Bhandar, Sarvani, & Amla Bhauna, Tehsil Pussore, Raigarh, Chhattisgarh for FY 2023-24

Dear Sir,

With reference to above subject, kindly find enclosed herewith Environment Statement FORM-V 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, Raigarh**



(R N Shukla)
Head Environment & Forest

Encl: As Above

CC:
The Regional Officer,
Chhattisgarh Environment Conservation Board,
TV Tower Road, Raigarh-496001. Chhattisgarh

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

Adani Power Limited, Raigarh
1 X 600 MW (600 MW) Coal Based Thermal Power Plant
At Village- Chhote Bhandar, PO- Bade Bhandar, Tehsil-Pussore,
District. – Raigarh, Chhattisgarh

Environmental Statement Report
2023-2024



ENVIRONMENTAL STATEMENT REPORT FOR ADANI POWER LIMITED, RAIGARH

Financial Year 2023-24



Submitted to:

**Chhattisgarh Environment Conservation Board,
Raipur, Chhattisgarh**



**Environment Department,
Adani Power Limited,
Bade & Chhote Bhandar Village, Pussore Tehsil
Raigarh District, Chhattisgarh**

Adani Power Limited, Raigarh
1 X 600 MW (600 MW) Coal Based Thermal Power Plant
At Village– Chhote Bhandar, PO- Bade Bhandar, Tehsil-Pussore,
District. – Raigarh, Chhattisgarh

Environmental Statement Report
2023-2024

ENVIRONMENT STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending on 31st March, 2024 as per condition stipulated under clause no. xvi of General Conditions in Environmental Clearance granted by Ministry of Environment & Forest vide letter no. J 13012/57/2008-IA.II (T) dated 20th May, 2010.

PART - A

i.	Name and address of the owner/occupier of the industry Operation or Under process.	Mr. Samir Kumar Mitra Station Head Vill – Chhote Bhandar, PO – Bade Bhandar, Tehsil – Pussore, Distt – Raigarh, Chhattisgarh – 496 100
ii.	Industry category Primary- (STC Code) Secondary – (STC Code)	Red Category
iii.	Production category – Units	1 x 600 MW (600 MW)
iv.	Year of establishment	March'2014
v.	Date of the last environmental statement submitted.	9 th September'2023

PART - B

i. Water and raw Material Consumption: -

i.	Water consumption in m ³ /day	m ³ /day
a	Process	150
b	Cooling	28000
c	Domestic	219
	Total	28369

S. No.	Name of the Products	Water consumption per unit of products	
		During the previous financial year 2022-23	During the current financial year 2023-24
1.	Electricity	2.43 m3/MWh	2.21 m3/MWh

ii. Raw material consumption

Name of the Raw materials	Name of the Products	Process water consumption per unit of products	
		During the previous financial year 2022-23	During the current financial year 2023-24
Coal	Electricity	0.747 MT/MW	0.7587 MT/MW
LDO	Electricity	0.000184KL/Mw	0.000132 KL/MW

PART - C

Pollution discharged to environment/unit of output

(Parameter as specified in the consent issued)

SN	Pollutants	Quantity of pollutants discharged (Ton/day)	Concentrations of pollutants in discharges (mg/Nm3)	Percentage of variation from prescribed standards with reason
a	Water	0.00	0.00	Plant designed is based on Zero Liquid Discharge (ZLD)
b	Air: PM	2.66	31.1	Within the standards of CECB/CPCB
	SO2	63.10	1210.2	As per MoEF&CC notification dated 05th September 2022, APL, Raigarh is a Category "C" TPP and timelines for compliance of SO2 emission is up to 31st December 2026.
	NOx	17.29	337.8	Within the standards of CECB/CPCB

- Water- No discharge of wastewater.

Note- 100% effluent is treated and recycled back. Hence, there is no discharge of effluent.

PART - D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling Rules, 1989))

S. No.	Hazardous Wastes	Total Quantity (MT)	
		During the previous financial year 2022-23	During the current financial year 2023-24
a.	From Process Used Oil	34.13 KL	30.02 KL
b.	From Pollution Control Facilities	Nil	Nil

PART - E

SOLID WASTES

S. No.	Solid Wastes	Total Quantity (MT)	
		During the previous financial year 2022-23	During the current financial year 2023-24
a.	From Process (Ash)	1246303 MT	1282100 MT
b.	From Pollution Control Facility	Nil	Nil
c.	Quantity recycled or reutilized within the unit.	Nil	Nil
	Sold	Nil	Nil
	Disposal (In low lying areas and backfilling of stone quarries)	1297979 MT	1121900 MT

Remarks: 87.50% ash utilized in FY 2023-24

PART - F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste:

Hazardous waste (Used/Spent oil) is sold to authorized vender. (Please Refer Part - D for Hazardous waste generation and disposal)

2) Non-Hazardous Solid Waste:

- a) Bottom Ash
- b) Fly Ash

Disposal Practices: The waste generated has been disposed in nearby low-lying areas/ stone quarries. Exploring approaches for utilization avenues like infrastructure, highways, cement industries etc.

PART - G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost production.

- 1) The stack emissions from the plant are controlled by Electrostatic Precipitator with efficiency of 99.938% for reducing the emission.
- 2) Other pollution control equipment's like Dust Extraction System & Dust Suppression System are installed at various material transfer points to control the fugitive emissions.
- 3) Real time monitoring system for both EQMS & CEMS installed as per the direction of CPCB/SPCB, under Air & Water Act.
- 4) Utilization of rainwater collected during monsoon in Rainwater Harvesting Pond
- 5) We had Installed Effluent Treatment Plant for treating the Industrial Effluent & reusing it.
- 6) We had Installed Sewage Treatment Plants for treating the Domestic sewage and reusing the treating water.

- 7) Installation of Hydro bins has been installed at ash water recovery system.
- 8) Regular monitoring of ambient air quality, ground & surface water, noise level quality has been carried out to evaluate the quality of environment in and around the plant premises.
- 9) Installation of Bag Filters, Dry fog dust suppression systems are installed throughout coal handling chain.

PART – H

Additional measures/ investment proposal for environmental protection including abatement of pollution.

FY 2022-23 Environmental Protection cost details are given below:

SI No	Expenditure head	Actual Expenditure FY 23-24 (In Lakh)
1	Environmental protection O&M	33.5
2	ESP	83.4
3	Stack	5.4
4	CHP	0.51
5	Silo annual Maintenances	15.1
6	Environmental Monitoring Cost	6.1
7	Legal & consent Fee	38.6
8	CSR	169.56
9	Environmental Lab Setup	17.6
10	Fly Ash Management	1686.8
11	Greenbelt Development	105.7
12	World Environment Day	3.7
13	STP	3.64
14	ETP	1.4
Total :		2171.01

PART - I

Any other Particulars for improving the quality of the environment

- 1) Water sprinkling in dust prone areas in and around plant premises.
- 2) Increasing the density of plants in and around plant premises development of local plant species has been preferred for the plantation having following characteristics.
 - Fast growing with thick canopy cover.
 - Adequate height with longer duration of foliage.
 - Perennial and evergreen
- 3) Integrated housekeeping management is undertaken at top priority to maintain neat, clean, and safe working environment in the plant area.
- 4) Organic waste is being converted to manure and being used in green belt development activities.
- 5) Rain guns and water sprinkling system has been provided in CHP.
- 6) Having certificate from CII to Single Use Plastic (SUP) free organization.
- 7) ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001 :2018, ISO 55001:2014, ISO 46001:2019 has been implemented for betterment of environment.
- 8) APL Raigarh Having 04 Nos. of Battery-Operated Vehicle at plant Premises for reducing carbon footprint.
- 9) APL Raigarh declared as a plastic free Industry (No Single use plastic or type of plastic made use has been used inside of the plant premises.
- 10) APL Raigarh have installed 150 Nos. solar streetlights to reduce Carbon footprint.
- 11) APL Raigarh planted 3,10,000 nos. in 195 Acre of the plant area within the plant premises.



R N Shukla
Head - Environment & Forest
Adani Power Limited, Raigarh

भारत सरकार
परमाणु ऊर्जा विभाग
विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड



Government of India
Department of Atomic Energy
Board of Radiation & Isotope Technology

Certificate Tracking ID / CTID : 2305262
Date of Issue / DOI : 23-Mar-2023
Certificate Serial No. / CSN : ULR-TC666523000003474P



TC-6665



RADIOACTIVITY TEST CERTIFICATE

Ref : BRIT/RAL/DOM/1162-1167/MISC/877-882/22-23

To :
M/S. RAIGARH ENERGY GENERATION LIMITED (ADANI POWER LTD)
VILLAGE CHOTE BHANDAR
P O BADE BHANDAR
RAIGARH 496100
C.G

This is regarding the samples of "COAL, FLY ASH AND POND ASH/BOTTOM ASH" sent for radioactivity analysis vide your letter dt. 01.02.2022 which as per above letter is drawn from consignment with the following markings, as shown in italics:

SAMPLE DESCRIPTION : **COAL, FLY ASH AND POND ASH/BOTTOM ASH**

Sr. No	SAMPLE NO.	TYPE OF SAMPLE	PLACE	DATE OF SAMPLE
1	SAMPLE #1	COAL SAMPLE	ADANI, RAIGARH	01.02.2023
2	SAMPLE #2	FLY ASH SAMPLE	ADANI, RAIGARH	01.02.2023
3	SAMPLE# 3	POND/BOTTOM ASH SAMPLE	ADANI, RAIGARH	01.02.2023

DATE OF RECEIPT OF SAMPLE: 02.02.2023

DATE OF COMPLETION OF TEST: 21.02.2023

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	TYPE OF SAMPLE	U-238 (Bq/Kg)	Th-232 (Bq/Kg)
1	COAL SAMPLE	32 ± 1.4	38.2 ± 5.3
2	FLY ASH SAMPLE	82.3 ± 2.8	116.3 ± 11.1
3	POND/BOTTOM ASH SAMPLE	76.4 ± 3.3	99.4 ± 10.3

Opinion: The measurement values are below the clearance level for radionuclides of natural origin in bulk solid materials, as per AERB directive 01/2010 (table-3) dated 26/11/2010

Note: (i) The report pertains to the given sample only. (ii) The sample will be retained in this laboratory for a period of 1 month from certificate date and thereafter it will be disposed off. (iii) This report shall not be reproduced except in full, without written approval of the laboratory. (iv) The sampling is not done by this laboratory.

Checked by:
SHEEBA S.W.
Assistant

Authorized Signatory:
AJAY NANA THAMKE
OIC, RAL

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

1/1

The authenticity of this certificate is verifiable. Please scan the QR code using a QR scanning application on any mobile devices. Upon redirection you must enter the necessary information in landing page <https://portal.britatom.gov.in>. We will then revert you back with a digital copy of the certificate in your verified e-mail ID. In accordance to IT Act 2000 (21 of 2000), this document is generated electronically through a validated s/w and need no physical/ digital signature(s).



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

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