

Ref: APL/REGL/EMD/MoEFCC/EC/289/05/24 Date: 22.05.2024

To, 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 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. EC Transfer from Raigarh Energy Generation Ltd. to Adani Power Ltd. dated 24.04.2023.

Dear Sir,

With reference to the above, please find enclosed herewith Six-Monthly Environment Clearance (EC) compliance status report along with environmental monitoring reports as Ambient Air, Water Quality, Noise level, Soil quality, CAAQM data, Met. data, Greenbelt development, Fly ash data & CSR progress report etc. for the period of **October'2023 to March'2024** in soft copy (e-mail).

This is for your kind information and record please.

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

(Santosh Kumar Singh) Head – AESG Encl.: As above CC: Member Secretary, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi – 110 032 Regional Officer

Member Secretary,

Chhattisgarh Environment Conservation Board, Prayavas Bhavan, North Block, Sector-19, Naya Raipur – 490 009, Chhattisgarh

Chhattisgarh Environment Conservation Board, TV Tower road, Raigarh – 496 001, Chhattisgarh

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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: October'2023 – March'2024

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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 already 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.

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
Α.	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.	Complied. The Hydro-geological study has been carried out by reputed institute "M/S Water Solution Pvt. Ltd." report attached as Annexure - I.
	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.	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 monitoring report is enclosed as Annexure – II.
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 requirement, 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.	Complied COC of 5.0 is being maintained during plant operation.

	600 (1x600) MW Coal Based Thermal Power Plant			
vii viii	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. Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied. 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. 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 is falling under Category "C" Non- retiring TPPs and the timelines for compliance of SO2 emission is up to December 2026. Accordingly, the work is under progress & 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, SOx & NOx. Exit velocity is more than 25 m/sec & records are being maintained.		
xi	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .			
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.		
×iii	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 October'2023 to March'2024 is attached as Annexure – V.		

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 – II .
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 MoEF/CEA/CPCB. Safety measure 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 of 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 %.	33% of total plant area. Approximate 3,10,000 trees have been planted. Local plant species
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

	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 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 neighbouring 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-III.		
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. 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-III 		

	600 (1x600) MW Coal Base	
xxiii	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.	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-III
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.	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.	Radioactive analysis carried out by Board of Radiation and Isotope Technology, Department of Atomic Energy, Govt. of India report enclosed in Annexure – VII.
xxvii	Mercury emissions shall also be monitored. on periodic basis.	Complied Analysis report for Mercury emission monitoring stack is enclosed in Annexure – II.

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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 - IV.
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.	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	Complied

	laws and regulations.	
В.	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 network is established for storm water. Effluent water quality report is enclosed in Annexure – II.
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 – II.
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. O4 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 at respective authorities.
v	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Complied 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. Disaster management plan (DMP) has been prepared to handle the any eventuality in case of an accident taking place due to storage of oil.

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vi	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Complied 05 Nos Piezometric wells are established within the plant premises. 02 Nos. upstream, 02 Nos are in Downstream & 01 is on cross center			
vii	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.	Complied The surface water samples being collected, and analysis report is enclosed as Annexure II .			
viii	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied First aid and sanitation for labours was provided during the construction.			
ix	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 hearing loss including shifting to non- noisy/less noisy areas.	Complied 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's (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.			
X	Regular monitoring of ground level concentration of SO2, NOx, PM2.5& PM10 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	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 – II. 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.			

	the website of the company.	
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 labours.
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. <u>http://www.adanipower.com</u>
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.

	600 (1x600) MW Coal Based Thermal Power Plant			
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), SO2, 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.	Regular Environmental Monitoring report is being submitted to Regional office, MoEFCC, CPCB and CECB, Chhattisgarh. The environmental parameters display board provided at main gate of the plant. Previous compliance status was updated in company website. <u>http://www.adanipower.com</u>		
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.	The Environment Statement for the year 2022- 23 has been submitted to Chhattisgarh Environment Conservation Board (CECB) vide letter no. APL/Raigarh/ENV/CECB/23-24/40, dated-09.09.2023.		
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.	same is sent by email also. Last compliance report for the period of April'23 – September'23 had been submitted to your		

r	600 (1x600) MW Coal Base			
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.		plied	
xix	xix Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up.		ıg Complied FY 2023-24 Environmental given below.	Protection costs
	This cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not	Sr. No	Activities Description	Actual Expenditure FY 2023-24 (In Lakhs)
	be diverted for other purposes and year- wise expenditure should be reported to the Ministry.	1	Environmental Protection O&M, ESP, Stack, CHP, Silo	139.31
		2	Environmental Monitoring Cost	6.1
		3	Legal & consent Fee	38.6
		4	CSR	169.56
		5	Environmental Lab Setup	17.6
		6	Fly Ash Management	1686.8
		7	Greenbelt Development	105.7
		8	Environmental Awareness Training, WED	3.7
			Total	2167.37
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.	Com	plied.	

	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.	Full co-operation shall be extended to all concerned authorities.			
Condi	itions of EC Amendment Letter				
 The coal shall be transported on road through mechanically covered trucks. 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 vehicles are engaged for coal transporting are mechanically covered and periodic refresher training is also being imparted on traffic for safety and environment rules. 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.			

EC amendment – MoEF&CC notification vide letter number S.O. 1561 (E) dated 21 st M			
SI.	Condition of Notification	Compliance Status	
<u>No.</u> 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. 	 Technology solutions are being implemented for mitigating fugitive emissions of Particulate Matter. 	

	Based Thermal Power Plant
 2) Management of Ash Ponds i) The thermal power plants shall corwith conditions, as notified in the Flynotifications issued from time to twithout being entitled to additicapacity of fly ash pond (for exispower generation capacity) on grounswitching from washed coal to unwascoal. ii) Appropriate Technology solutions shaapplied to optimize water consumpfor Ash management. iii) The segregation of ash may be don the Electro-Static Precipitator stagrequired, based on site speconditions, to ensure maximum utilization of fly ash. iv) Subject to 2(i) above, the thermal poplants to dispose fly ash in abandone working mines (to be facilitated mine owner) with environmed 	Ash ime, onal ting d of thedFly Ash generation and utilization is regularly submitted to CEA, New Delhi. Enclosed as Annexure V.iii)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.II be tioniii)Noted & being complied.iv)Noted & will be complied as & when fly ash is disposed in abandoned or working minese at e, if cific tionwer d or b y
 3) Transportation i) Coal transportation may be undertake covered Railway wagon (railway wago covered by tarpaulin or other me and/or covered conveyor beyond their area. However, till such time enabling transport/conveyer beyond infrastruct is not available, road transportation be undertaken in trucks, covered tarpaulin or other means. ii) It shall be ensured by the thermal poplant that a) Rail siding facility or conveyer fact is set up at or near the power plant transportation by rail or conveyor; b) If transportation by rail or conveyor facility is not available, ensure the coal is transported out from Delivery Point of the respective r in covered trucks (by tarpaulir other means), or any mechan closed trucks by roads. 	 coal transportation by road, till the time railway line will be constructed/ commission. ii) Currently, we are transporting coal by road in tarpaulin covered truck. a) Coal is being unloaded at Vimla siding nearby Bhudevpur railway station in Raigarh district. b) Coal is being transported by tarpaulin covered truck from off- take site from being supplied Vimla siding as well as other market purchasing.

HYDROGEOLOGICAL REPORT

OF

RAIGARH ENERGY GENERATION LTD (ADANI POWER LTD) RAIGARH, CHHATTISGARH





WATER SOLUTIONS GURUGRAM, HARYANA, INDIA

WWW.WATERSOLUTIONS.NET.IN INFO@WATERSOLUTIONS.NET.IN



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1. BACKGROUND

M/s Raigarh Energy Generation Ltd, previously known as Korba West Power Corporation Ltd a subsidiary of Adani Power, is a power generation company based at village - Chote Bhandar of Pusaur block of Raigarh district, Chhattisgarh state. On 07-Sep-2019, "Adani Power Limited" got approval from NCLT to become new owner of this project "Raigarh Energy Generation Ltd.", has commissioned its Thermal Power Plant first 600MW Unit at Village Chhote Bhandar, Post Office Bade Bhandar, Raigarh- 496100, India. Raigarh Energy Generation Ltd., is also committed towards the environment and the community it operates in. It has successfully implemented several community welfares schemes in the field of livelihood, infrastructure, community health and education which has so far benefited over 60,000 people from close to 75 villages.

2. LOCATION AND ACCESSIBILITY

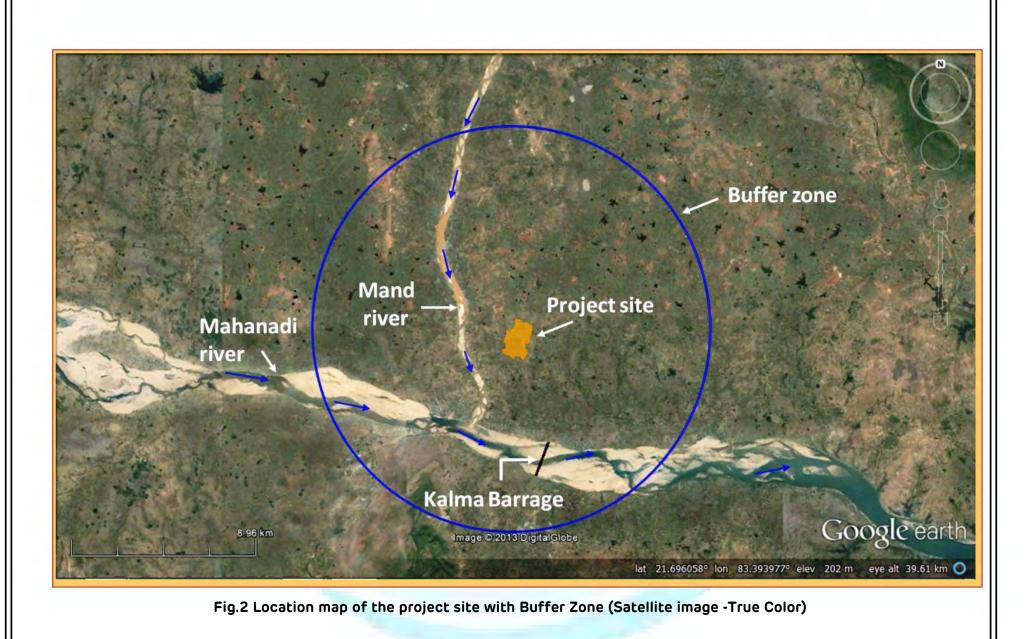
The Raigarh Energy Generation Ltd (REGL) plant area falls under village - Chote Bhandar situated in west direction of Pussor block of the Raigarh district, Chhattisgarh state. For the present study, an area by considering 10 km of radius, which comes about 350 sq.km and lies between N 21°38' 37" – 21°49' 57" latitude and E 83°10'16 " – 83°22'37" longitude and falls under the Survey of India Topo-sheet No. 64 O/1, 64O/2, 64O/5 & 64O/6 (1:50000 scale).

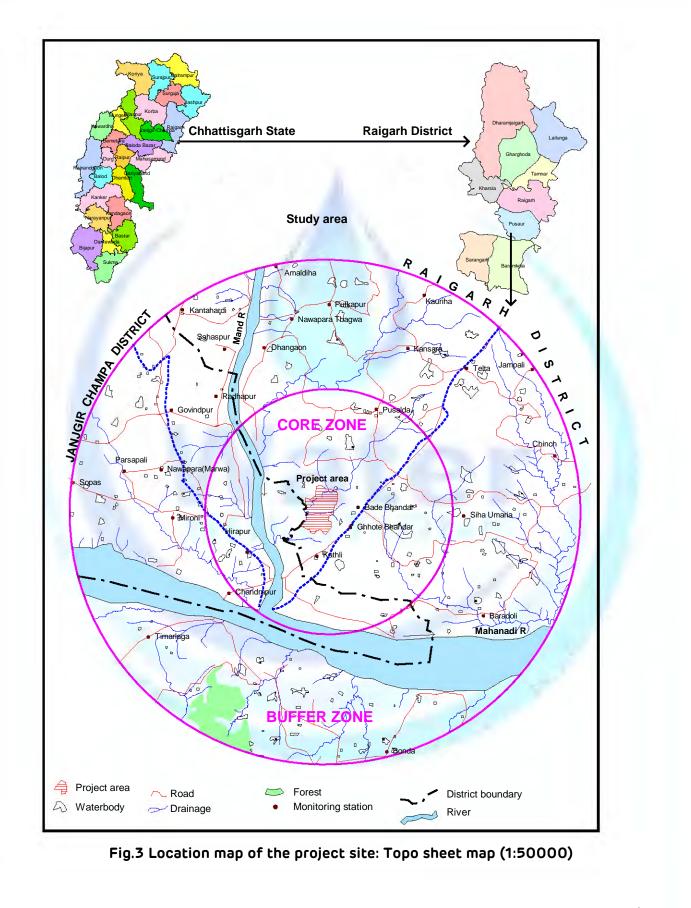
The Project site is in the vicinity of the rivers, Mand about 3 km towards west and Mahanadi River about 5 km towards south, on their left banks. The area is well connected by Bituminous Road as well as Rail networks. The surrounding of the projects is connected by Bituminous Road as well as mettle and un-mettle road within 10 km radius. Raigarh Railway station, on Mumbai- Howrah Broad Gauge main line of the South-Eastern-Central Railway is close to the project area around 23 km away. The block head quarter is Pussor & is about 15 km away from the study area on eastern side.

The location map of the project site is given in Fig. 1, 2 &, 3



Fig.1 Location map of the project site, Satellite image (True Color)





3. GENERAL DESCRIPTION OF THE AREA

The brief description of the study area is given below.

3.1 Demography

There are 97 nos. of villages present in the area within 10 km of radius. According to Census 2011, the total population of the area is 98489. Out of which 49450 are males & 49039 are female. Schedule Tribe & Schedule Cast population is 22583 & 13394 respectively.

3.2 Land use

The Satellite Image has been used for Land use study is given in Table no: 1

SI. No.	Land Use	Area In Sq.Km.
1	Forest Blank	0.91
2	Scrub Forest	8.39
3	Open	0.76
4	Forest Plantations	2.71
5	Built up	11.56
6	Land with Scrub	9.52
7	Land Without Scrub	7.66
8	Kharif+Rabi (Double-Cropped)	9.27
9	Water Bodies	25.76
10	Kharif	264.05
11	Fallow	9.74
	Total	350.33

Table.1 Land use of the Study area

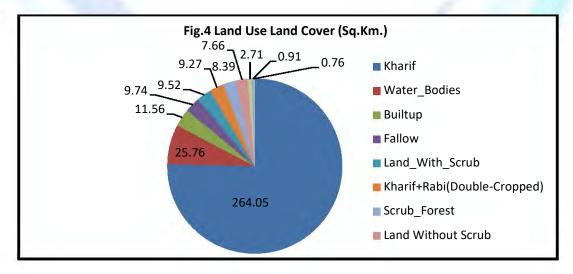


Fig: 4 Land Use Land Cover (Sq. Km.)

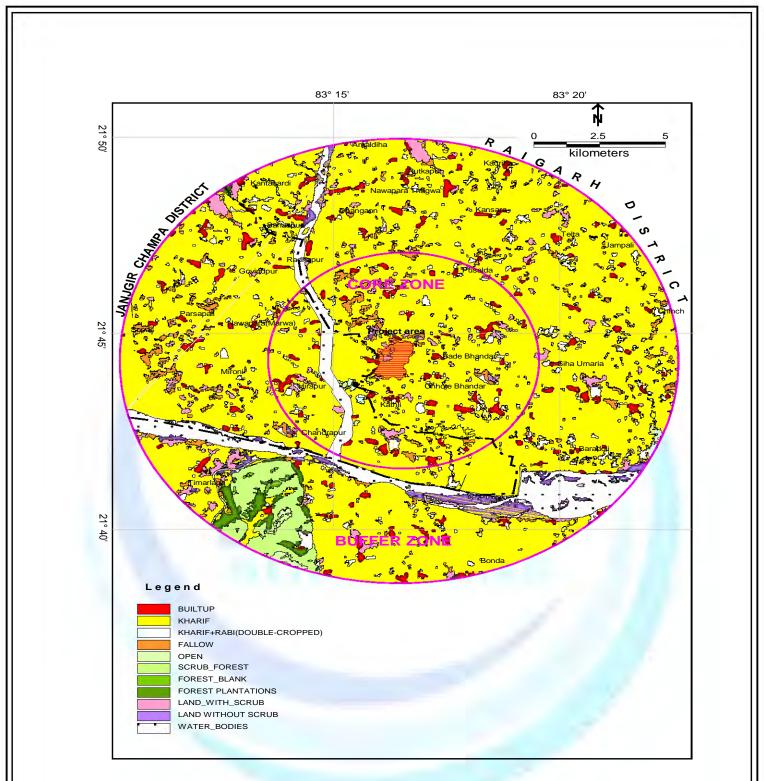


Fig.5 Land use Map of the Study

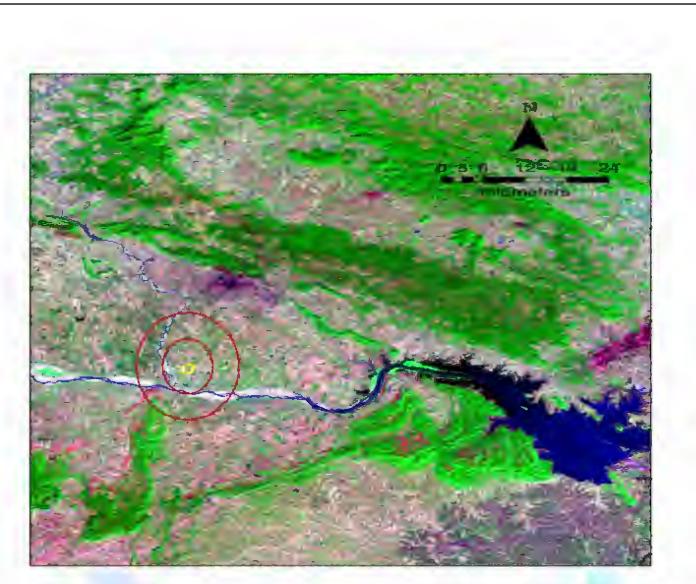


Fig.6 Sentinel-2 Satellite Image of the Study Area (10 m Resolution)

3.3 Soil

There are two soil categories are present in the study area namely Ultisols (Red & Yellow soil) and Alfisols (Sandy& Red Sandy soil).

Red & yellow soil (Ultisols) exposed in major part of the study area. It is the ultimate product of continuous weathering of minerals in a humid climate. This is a highly weathered and leached acid soil with high levels of clay below top layer.

Sandy soil (Alfisols) is exposed along river courses of the study area while Red Sandy soil (Alfisols) is exposed in the southern part of the study areain patch. It is a fertile leached soil found in humid areas which is alkaline in nature and contains clay-rich layer.

3.4 Climate and Rainfall

The area falls under tropical climate with hot summer followed by well-distributed rainfall through South-West monsoon season. The winter commences from December and last till the end of February. The period from March to the end of May is hot season. The monsoon season starts from the middle of June and last till the end of September. The average daily annual normal temperature for the area is 32°C. During the summer Season humidity is lowest i.e. about 32% and is highest during the South-West Monsoon period i.e. about 80%.

The study area receives an average rainfall of 1380.80 mm/annum.About 94% of the annual rainfall is received during the Northwest Monsoon period (June to October), of which July and August being the main rainy months. The variation in annual rainfall from year to year is very large. On an average there are 60- 80 rainy days in a year.

S. No.	Year	Rainfall (mm)
1	2010	1212.6
2	2011	1319.6
3	2012	1457.6
4	2013	1224.8
5	2014	1150.2
6	2015	1534.7
7	2016	1484.2
8	2017	1213.5
9	2018	1186.3
10	2019	1367.5
11	2020	1294.12
12	2021	1260.47
	Average Rainfall	1308.80

Rainfall data of the area for last 12 years is as mentioned in the table no: 2

Table.2 Rainfall data for last 12 years

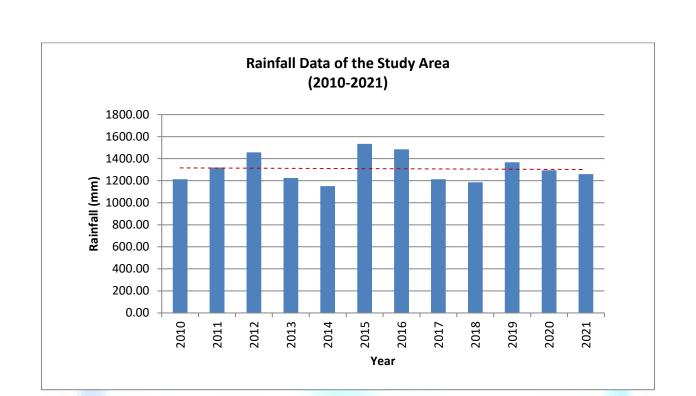


Fig.7 Rainfall Data of the Study Area (2010-2021)

3.5 Drainage

The area is mainly drained by tributaries of Mand River. This tributary system comes under Mahanadi basin which flows through the study area from 1st to 5th order. The drainage pattern is dendritic to sub parallel. The drainage density is high especially in hilly area and low in the plain and low lying area. The high drainage density in the upper riches of the study area indicates high surface run-off and less infiltration of the water while in plain area it indicates less surface run-off and high infiltration.

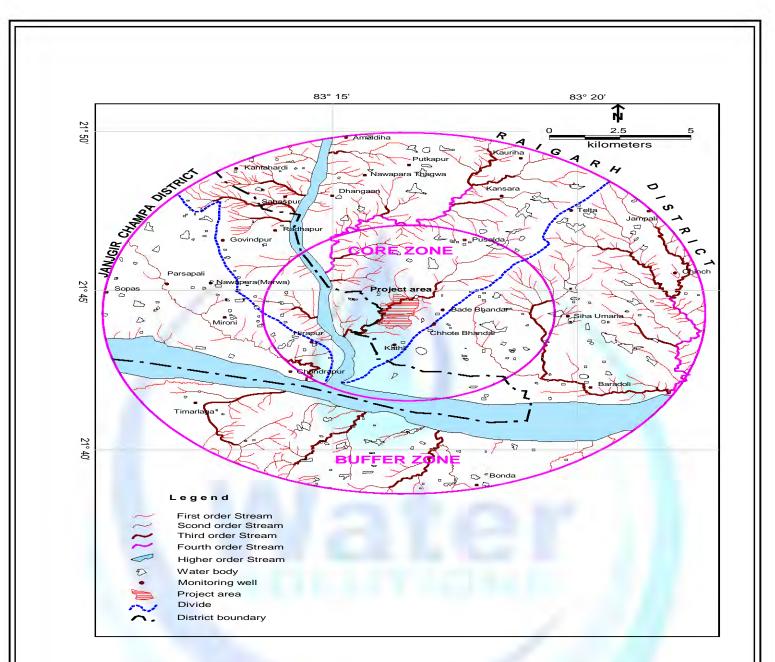


Fig.8 Drainage map of the study area

3.6 Geomorphology

Geomorphological the study area is characterized by gently sloping plain land which is classified as structural plain on Proterozoic rocks, structural hills& Valleys and Flood plain. The elevation of the area varies from 200 to 750 mamsl. The Physiography of the basin is controlled by geological formations namely limestone, Shale, sandstone& Conglomerate. The rocks were exposed to renewed post depositional activities and were subjected to intensive and extensive pedimentation, peneplanation and denudation during Pre-Quaternary and Quaternary time. In response to lithology of rocks, their chemical composition, their relative deposition, tectonic set up, they were chiselled into various geomorphic and hydro geomorphic surfaces namely structural plain on Proterozoic rocks, structural hills& Valleys and Flood plain.

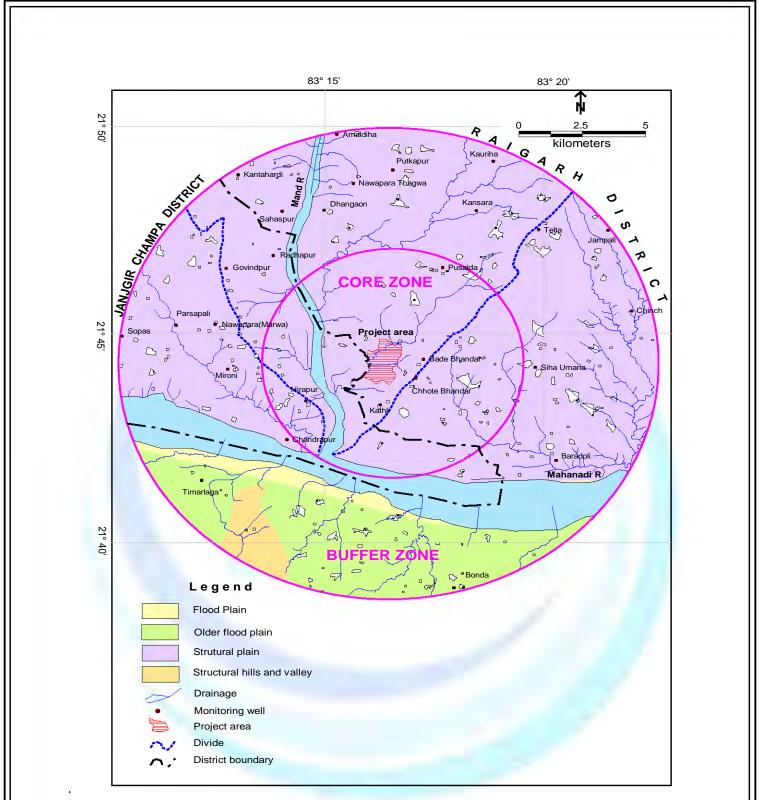


Fig.9 Geomorphological Map of the study area

4. GEOLOGY

4.1 Stratigraphic Sequence

The area mainly covers the rocks Chandrapur, Gunderdehi, Raigarh & Chandi Formations of Chhattisgarh Super Group of Proterozoic in age. The generalised geological succession in the area as per Geological Survey of India is given below in the form of Table 4.1.

Age	Period	Group	Formation	Lithology
Quaternary	Recent to	100	Alluvium &	Sand, silt, clay, lateritic soil
	sub-recent	1	laterite	
Cenozoic			Rhyolite(intru	sive)
Proterozoic			Saradih	Dolomite
			Bamnidih	Shale &Limest.
			Chandi	Lime st.& Shale
		Raipur	Raigarh	Shale, Limest., Arenite&
	Chhattisgarh	Group		Conglomerate
	Supergroup			
			Gunderdehi	Shale
			Charmuria	Lime st.& Shale
		Chandrapu	r Group	Orthoquartzite to Sub-arkosic
				Sandstones
Archaean	Bilaspur-Raigarh-Surguja belt,		Granites, gneiss, mica schists	
	Metamorphic & Igneous rock(Basement Crystallines)		with quartz vein & pegmatite	

Table 3: Generalized geological succession in Raigarh district

4.2 Geological formation of the area

4.2.1 Chandrapur Group

The Chandarpur Formation is exposed in south part of the study area in small patch. It mainly consists of conglomerate, arkose, sub-arkose, chert and fine-grained ferruginous arenite. Black shale varies laterally on either side to pink and light grey shale. The intercalated arenite is fine grained containing asymmetric ripple marks.

4.2.2 Raipur group

a) Gunderdehi Formation:

The Gunderdehi Formation It is exposed in south-western part of the study area in small patch. Charmuria Formation is conformably overlain by Gunderdehi Formation, which is dominantly a calcareous argillite developed as a distinct facies in the sub-basin. Although the purple-coloured shale with intercalated limestone is the dominate member, a buffcoloured shale and a ferruginous arenite are also two prominent members occurring at the middle of the formation.

The purple shale is generally calcareous, highly friable in character and is associated with impersistent limestone bands. Locally intra-formational conglomerate lenses are present in the upper part. Besides this, lenses and pockets of stromatolitic limestone appearing towards top indicate a gradational contact with the overlying formation. It is reported that at subsurface Gunderdehi purple shale grades to black shale.

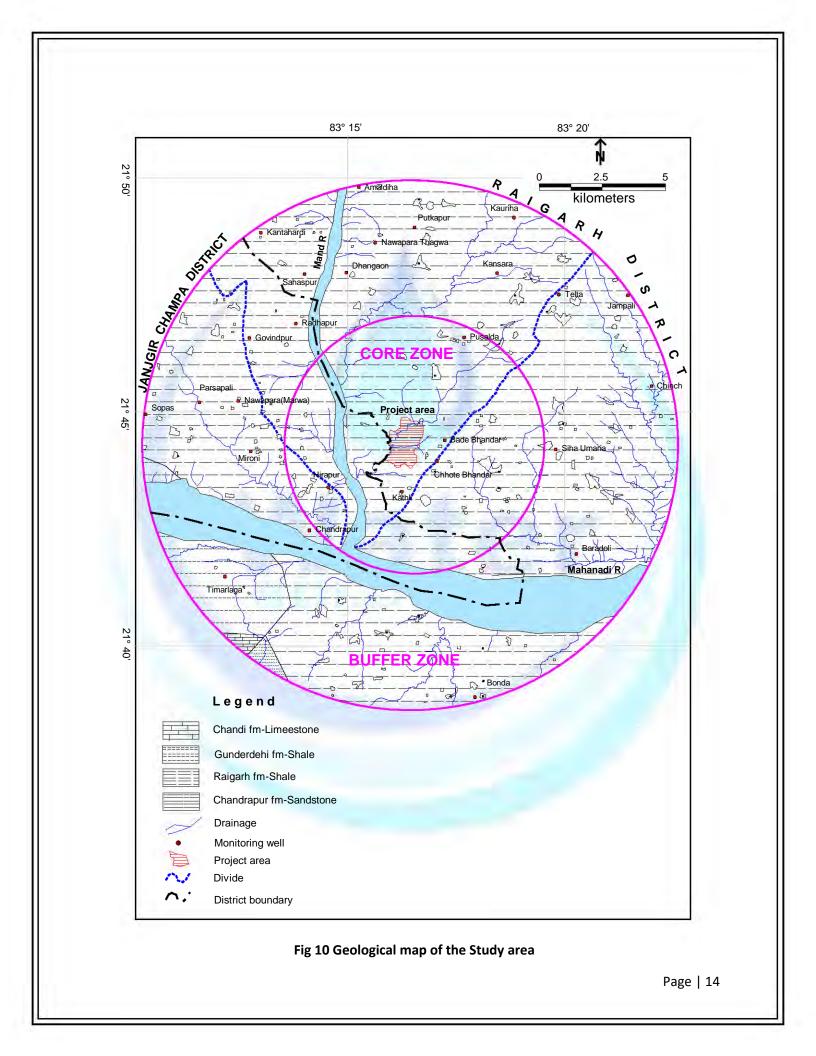
b) Raigarh Formation:

The formation is developed in major part of the study area comprising dominantly friable calcareous purple shale with limestone intercalations. The formation can be classified into a lower shale flaggy carbonate-arenite member which is followed upward by a purple calcareous shale member. At places, arenite lenses and bands are also present in the member. The upper member is mainly purple calcareous shale with limestone as well as arenite lenses. Mud cracks and ripple marks are the common structures.

c) Chandi Formation:

It is also exposed in south-western part of the study area in small patch. This comprises a major stromatolitic limestone sequence consist of limestone and shale. The carbonate facies is intercalated discrete pockets or lenses in calcareous argillite. Chandi Formation had been classified into four major carbonate members as Newari, Pendri, Deodongar and Nipania Member.

The geological map of the study area is given in Fig.10



5. HYDROGEOLOGY 5.1Introduction

The ground water occurrence and its distribution in space are highly influenced by the underlying geological formations and hydro-geological characteristic of the surroundings. The weathered and fractured zones present in the rocks or formation provides scope of ground water occurrence, storage and its movement. The hydrogeology of the area broadly describes the disposition of water bearing formations occurrence of ground water and their yield potential, groundwater regime conditions, depth to water levels in different seasons, yield potential of the aquifers etc.

5.2 Ground water occurrence and Aquifer systems

In the area, ground water occurs under phreatic or unconfined condition in weathered portion of rocks and semi-confined to confined conditions in fractures/cavernous part of rocks i.e. limestone and shale at depths.

The shallow aquifers of the study area occur within an average depth of 20 m. They are composed of weathered mantle. The configuration of water table in the shallow aquifer follows the topography due to which the ground water movement is generally towards valleys or topographic low. The recharging bodies such as tanks, canals and streams also influence the occurrence and movement of ground water in shallow aquifers. The shallow aquifers of the area are mostly developed by way of dug wells in the area whose depth varies from 7 to 16 m. In general, the yield of dug wells ranges from 25 to 40 m³/day.

5.3 Pumping Test

A pumping test is one of the most useful means of determining hydraulic properties of water-bearing layers and confining beds, and important for a proper understanding of some groundwater system to evaluate groundwater as a water supply. The aquifer was pumped at a constant discharge rate of about 3870 m3 /day. Amongst different analytical methods, it is important to select numerical formula which is more appropriate to actual field conditions. Hydrogeologists and engineers have developed several theoretical models over the past century to analyze and evaluate pumping test data. These methods for analyzing groundwater flow in bounded aquifers is based on the principle of superposition. According to this principle, the drawdown induced by two or more wells is equal to the sum of the drawdowns caused by each separate well. Therefore, by introducing imaginary wells, or image wells, it is possible to transform an aquifer of finite extent into one of seemingly infinite extent.

Pumping Test was conducted at Village- Chote Bhandar, Private Borewell. The static water level observed is 6.45m, drawdown observed is 7.64m after 100minutes of pumping. The analysis is explained in the following section.

To apply the Cooper and Jacob solution, plot Ss as a function of log t log t on semilogarithmic axes and draw a straight line through the data and the equation to Determine T is given below:

$T = 2.303 / Q4\pi\Delta s$

 Δs is the slope of the fitted line (change in drawdown per log cycle time) With the estimate of T obtained from, calculate Ss as follows:

S = 2.25Tt0 / r2

Where

Q is pumping rate [L³/T]

r is radial distance from pumping well to observation well [L]

s is drawdown [L]

S is storativity [dimensionless]

t is elapsed time since start of pumping [T]

T is transmissivity [L²/T]

w(u) is the Theis well function for nonleaky confined aquifers [dimensionless]

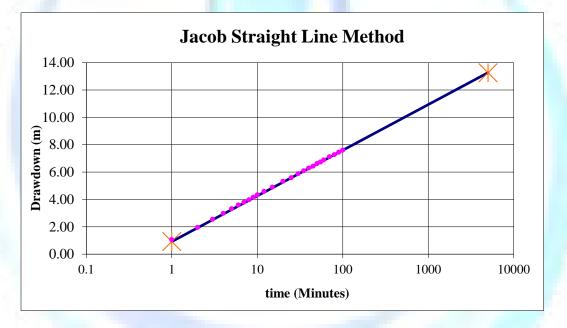
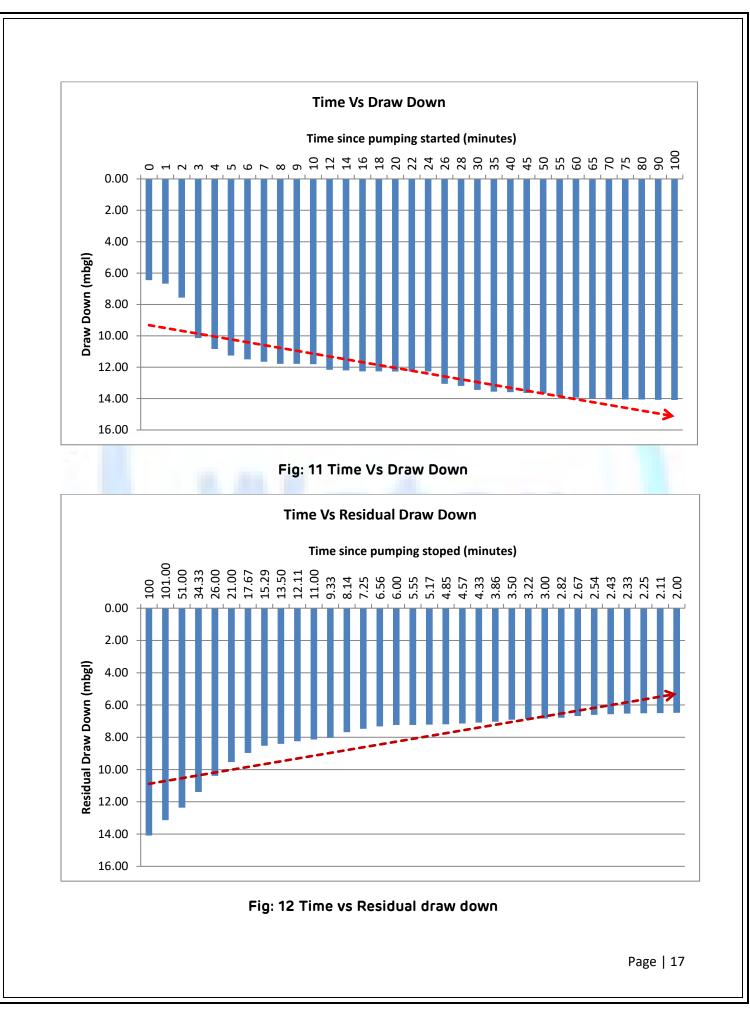


Fig: 10 Jacob straight line Method

Based on the pumping test data analysis the transmissivity (T) value observed from the study is $23.71 \text{ m}^2/\text{day}$, Storage value obtained from the aquifer test is 3.84×10^{-05}

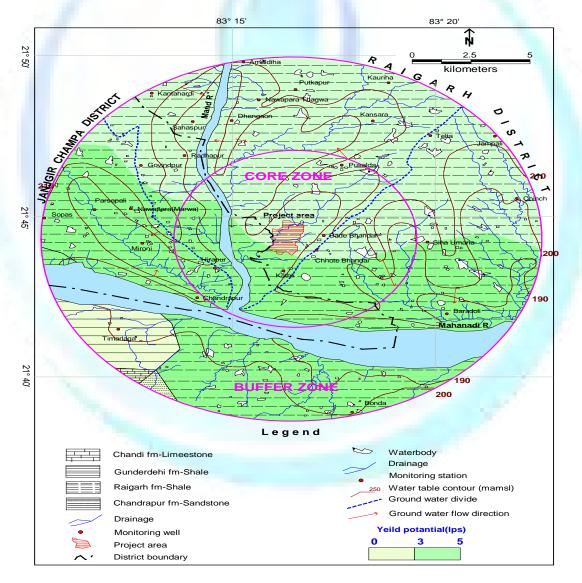


	est	umping to	Table no 4: Data collected during the pumpir								
		ation	Recupera			Pumping					
			Time	Time			Time in				
			since	since			minutes				
			pump	pump		Water	since				
Residual Draw	Water		stopped t`	started t		level in m	pumping				
Down	level in m	t/t`	(min)	(min)	Drawdown	bmp	started				
7.64	14.09	0	0	100	0.00	6.45	0				
6.69	13.14	101.00	1	101	0.23	6.68	1				
5.91	12.36	51.00	2	102	1.11	7.56	2				
4.94	11.39	34.33	3	103	3.69	10.14	3				
3.94	10.39	26.00	4	104	4.39	10.84	4				
3.09	9.54	21.00	5	105	4.80	11.25	5				
2.52	8.97	17.67	6	106	5.05	11.5	6				
2.08	8.53	15.29	7	107	5.20	11.65	7				
1.96	8.41	13.50	8	108	5.33	11.78	8				
1.80	8.25	12.11	9	109	5.34	11.79	9				
1.69	8.14	11.00	10	110	5.36	11.81	10				
1.58	8.03	9.33	12	112	5.71	12.16	12				
1.23	7.68	8.14	14	114	5.75	12.20	14				
1.02	7.47	7.25	16	116	5.81	12.26	16				
0.88	7.33	6.56	18	118	5.81	12.26	18				
0.79	7.24	6.00	20	120	5.82	12.27	20				
0.79	7.24	5.55	22	122	5.82	12.27	22				
0.77	7.22	5.17	24	124	5.82	12.27	24				
0.75	7.20	4.85	26	126	6.61	13.06	26				
0.70	7.15	4.57	28	128	6.74	13.19	28				
0.64	7.09	4.33	30	130	7.00	13.45	30				
0.59	7.04	3.86	35	135	7.11	13.56	35				
0.46	6.91	3.50	40	140	7.14	13.59	40				
0.41	6.86	3.22	45	145	7.19	13.64	45				
0.39	6.84	3.00	50	150	7.23	13.68	50				
0.34	6.79	2.82	55	155	7.38	13.83	55				
0.23	6.68	2.67	60	160	7.49	13.94	60				
0.16	6.61	2.54	65	165	7.56	14.01	65				
0.12	6.57	2.43	70	170	7.60	14.05	70				
0.08	6.53	2.33	75	175	7.61	14.06	75				
0.06	6.51	2.25	80	180	7.61	14.06	80				
0.05	6.50	2.11	90	190	7.63	14.08	90				
0.03	6.48	2.00	100	200	7.64	14.09	100				

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5.4 Water table configuration and flow direction

The ground water flow direction follows broadly the topographic pattern, in northern part of the study area, it is in east-west and in southern part of the study area and it is in northsouth direction indicating the major surface water divides in the central portion of the study area N-S & E-W and two local water divides NW-SE & NE-SW. A local variation in flow direction is also observed in the vicinity of surface water divide. The water table elevation in the study area ranges between 190 to 200mamsl. Eastern & southern part of the area is having high altitude of water table elevation i.e. 200mamsl while water table elevation decreases to south-eastern& is 190mamsl. The gradient of water table is variable. Ground water divide has been demarcated based on the field data as shown in Hydrogeological map, Fig. 5.1.





6 GROUND WATER REGIME MONITORING

6.1 Introduction

The monitoring data will be of immense helpful in management of the water resources as well as protecting the ground water storage. Such study envisages regular monitoring of water level at selected locations to observe the variation of the ground water level and the changes in water quality with respect to ground water withdrawal over a period of time and space. It is pertinent to say that any ground water development of a particular area would bring changes in the immediate vicinity of the development area.

The objective is to identify the potential areas that have registered change in ground water levels and quality which in turn would help in identifying the appropriate measures for adoption of artificial recharge to neutralize the negative impact of the envisaged ground water development. In the present report, the monitored data has been presented and the overall picture of ground water storage behaviour due to continuous abstraction of ground water has been analysed for the January 2010 to November 2021. The monitoring was carried out four times in each year i.e. January May, August and November. The water level data of the month of May and November are taken as level of pre-monsoon and post-monsoon respectively.

6.2 Distribution of monitoring stations

To study the change in ground water regime in and around study area, a total of 27 monitoring wells (DW & BW) were selected at different locations for regular monitoring of ground water level (Core zone- 4 nos., Buffer zone-23nos.The monitoring schedule undertaken in and around the plant area has been bifurcated in core and buffer zone to have a better understating about the changes that is being observed in the ground water regime. The separate analysis of the long term ground water behaviour in core and buffer zone would enable to demarcate the areas that bear direct impact of any ground water development that has triggered its impact in the surrounding areas has also been discussed in subsequent headings. The basic details of these monitoring wells are presented in **Table Nos.5**

SI No	Location	Lat	Long	Type of well	Dia in (m)	Depth in (m)	RL (m amsl)
1	Bade Bhandar	21.739360	83.289519	Borewell	0.15	82	217
2	Chhote Bhandar	21.731270	83.282079	Borewell	0.15	85	218
3	Amlibhouna	21.725683	83.268322	Borewell	0.15	100	237
4	Jevridih	21.732607	83.285202	Borewell	0.15	95	215
5	Barpali	21.747425	83.293045	Borewell	0.15	90	244

Table 5: Basic details of established monitoring wells in the Core Zone

6	Gopalpur	21.738151	83.225732	Borewell	0.15	80	204
7	Kotmara	21.758395	83.273520	Borewell	0.15	85	231
8	Supa	21.751738	83.299698	Borewell	0.15	95	227
9	Taparda	21.720197	83.284497	Borewell	0.15	100	229
10	Kotasura	21.745560	83.334827	Borewell	0.15	80	220
11	Kathali	21.723253	83.271810	Borewell	0.15	86	238
12	Bunga	21.726707	83.300077	Borewell	0.15	75	214
13	Ranbhata	21.718512	83.293932	Borewell	0.15	90	228
14	Kalma	21.700327	83.274772	Borewell	0.15	75	212
15	Chandli	21.713263	83.259052	Borewell	0.15	70	212
16	Chandarpur	21.710450	83.237630	Borewell	0.15	85	207
17	Nandeli	21.760950	83.336739	Borewell	0.15	80	224
18	Gotma	21.740673	83.361387	Borewell	0.15	90	216
19	Basanpali	21.812959	83.290373	Borewell	0.15	95	223
20	Latesara	21.743418	83.191503	Borewell	0.15	85	207
21	Borsi	21.771609	83.229350	Borewell	0.15	72	204
22	Dadarpali	21.660214	83.257402	Borewell	0.15	70	209
23	Naughata	21.664786	83.289977	Borewell	0.15	78	201
24	Parsapali	21.701567	83.346822	Borewell	0.15	85	204
25	Tetala	21.790384	83.329855	Borewell	0.15	90	225
26	Semra	21.760510	83.254302	Borewell	0.15	85	224
27	Dhangaon	21.812103	83.259367	Borewell	0.15	85	216
28	Timarlaga	21.694123	83.203903	Borewell	0.15	70	198
29	Kawriha	21.818007	83.310533	Borewell	0.15	90	212
30	Ruchida	21.795896	83.278562	Borewell	0.15	85	217

7. ANALYSIS OF WATER LEVELS

7.1 Introduction

Water level or piezometric heads is the resultant of all the input and output to the ground water reservoir, considering it to behave as a system with defined boundaries. Ground water is a dynamic system. The variables required to be monitored, namely water level or head, chemical quality are subject to changes both due to natural and manmade causes. The zones of aeration and saturation play important roles in ground water recharge and ground water level fluctuations, as also in evolution of its quality. Hence assessment of chemical quality and temperature monitoring are essential parts of the monitoring system.

7.2 Ground water levels:

The configuration of the water table depends upon by topography, geology, climate, water yielding and water bearing properties of rocks in the zones of aeration and saturation, which control ground water recharge. The upper surface of the zone of saturation is the water table. In case of wells penetrating confined aquifers, the water level represents the

pressure or piezometric head at that point. The water level is dependent on static or time independent topographical features and also Dynamic or time- dependent variables.

Monitoring network planning is basic to groundwater assessment and development programmed. The groundwater, being subterranean resource can only be accessed through the indirect reflection in the form of water level fluctuations. The systematic and regular monitoring of groundwater levels can bring out the changes taking place in the regime. The data so generated are of immense help for regional groundwater flow modeling to serve as a groundwater management tool, and to provide the necessary advance information to the user agencies to frame contingency plans in case of unfavorable groundwater recharge situation.

The seasonal water levels in different years have been collected, analyzed for every set of measurements and write up with maps are presented in following sections. It is observed that in the study area major surface water divides are present in central part of the study area extending N-S & E-W. Hence, for the analysis part of Bade Bhandar, ChoteBhandar, Kathli and Pusalda villages of core zone and Amaldiha, Baradoli, Chinch, Dhangaon, Jampali, Kansara, Kauriha, Nawagaon Thangwa and Putkapur of buffer zone have been considered.

7.2.1 Analysis of water levels

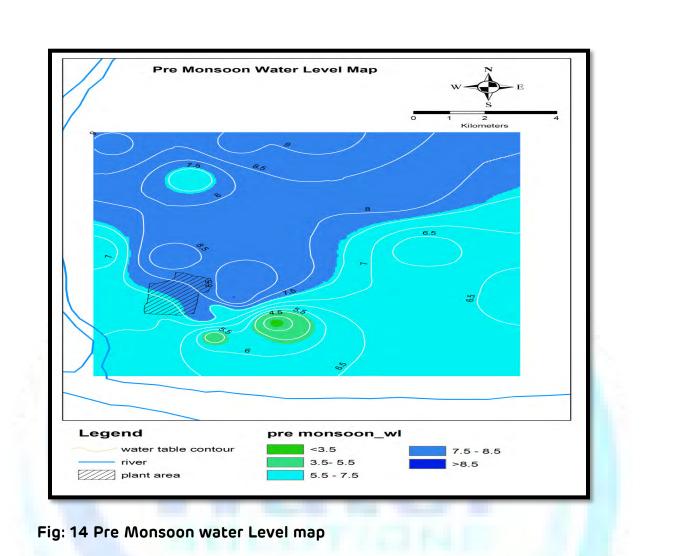
The water level data collected four times during the year 2022 from the observation wells in core zone as well as buffer zone is presented in **Table No.6**

SI No	Location	Lat	Long	Pre Monsoon Water Level (mbgl)	Post Monsoon Water Level (mbgl)	Fluctuation (m)
1	Bade Bhandar	21.739360	83.289519	9.5	6.8	2.7
2	Chhote Bhandar	21.731270	83.282079	8.45	7.19	1.26
3	Amlibhouna	21.725683	83.268322	7.15	6.45	0.7
4	Jevridih	21.732607	83.285202	6.95	5.75	1.2
5	Barpali	21.747425	83.293045	9.5	6.5	3
6	Gopalpur	21.738151	83.225732	6.45	5.85	0.6
7	Kotmara	21.758395	83.273520	9	7.45	1.55
8	Supa	21.751738	83.299698	8.5	7.75	0.75
9	Taparda	21.720197	83.284497	5.15	3.35	1.8
10	Kotasura	21.745560	83.334827	7	6.1	0.9

1					
Kathali	21.723253	83.271810	6.5	5.65	0.85
Bunga	21.726707	83.300077	3.5	1.45	2.05
Ranbhata	21.718512	83.293932	5.8	4.35	1.45
Kalma	21.700327	83.274772	5.95	5.15	0.8
Chandli	21.713263	83.259052	9.65	8.35	1.3
Chandarpur	21.710450	83.237630	7.1	5.5	1.6
Nandeli	21.760950	83.336739	6	4.95	1.05
Gotma	21.740673	83.361387	6.15	5.5	0.65
Basanpali	21.812959	83.290373	9.15	7.65	1.5
Latesara	21.743418	83.191503	5.46	4.85	0.61
Borsi	21.771609	<mark>83</mark> .229350	5	4.5	0.5
Dadarpali	21.660214	83.257402	6.4	5.12	1.28
Naughata	21.664786	83.289977	5.5	4.78	0.72
Parsapali	21.701567	83.346822	6.9	5.74	1.16
Tetala	21.790384	83.329855	8.5	6.45	2.05
Semra	21.760510	83.254302	6.45	5.94	0.51
Dhangaon	21.812103	83.259367	9.1	8.4	0.7
Timarlaga	21.694123	83.203903	6.3	5.18	1.12
Kawriha	21.818007	83.310533	9.4	8.5	0.9
Ruchida	21.795896	83.278562	7.2	6.34	0.86
	Ranbhata Kalma Chandli Chandarpur Nandeli Gotma Basanpali Latesara Borsi Dadarpali Naughata Parsapali Tetala Semra Dhangaon Timarlaga Kawriha	Bunga21.726707Ranbhata21.718512Kalma21.700327Chandli21.710450Chandarpur21.710450Nandeli21.760950Gotma21.740673Basanpali21.812959Latesara21.743418Borsi21.740673Dadarpali21.660214Naughata21.664786Parsapali21.701567Tetala21.790384Semra21.760510Dhangaon21.812103Timarlaga21.694123Kawriha21.818007	Bunga21.72670783.300077Ranbhata21.71851283.293932Kalma21.70032783.274772Chandli21.71326383.259052Chandarpur21.71045083.237630Nandeli21.76095083.361387Gotma21.74067383.361387Basanpali21.81295983.290373Latesara21.77160983.290373Borsi21.66021483.229350Dadarpali21.66478683.289977Parsapali21.79038483.329855Semra21.76051083.254302Dhangaon21.81210383.203903Kawriha21.81800783.310533	Bunga21.72670783.3000773.5Ranbhata21.71851283.2939325.8Kalma21.70032783.2747725.95Chandli21.71326383.2590529.65Chandarpur21.71045083.2376307.1Nandeli21.76095083.3367396Gotma21.74067383.2903739.15Basanpali21.81295983.2903739.15Latesara21.74341883.1915035.46Borsi21.66021483.2574026.4Naughata21.66478683.2899775.5Parsapali21.79038483.3298558.5Semra21.76051083.2543026.45Dhangaon21.8120383.2039036.3Kawriha21.69412383.3105339.4	Bunga21.72670783.3000773.51.45Ranbhata21.71851283.2939325.84.35Kalma21.70032783.2747725.955.15Chandli21.71326383.2590529.658.35Chandarpur21.71045083.2376307.15.5Nandeli21.76095083.33673964.95Gotma21.74067383.2903739.155.5Basanpali21.81295983.2903739.157.65Latesara21.74341883.1915035.464.85Borsi21.66021483.22935054.5Dadarpali21.66478683.2899775.54.78Parsapali21.70156783.3468226.95.74Tetala21.76051083.2593679.18.4Semra21.76051083.2593679.18.4Timarlaga21.69412383.2039036.35.18Kawriha21.81800783.3105339.48.5

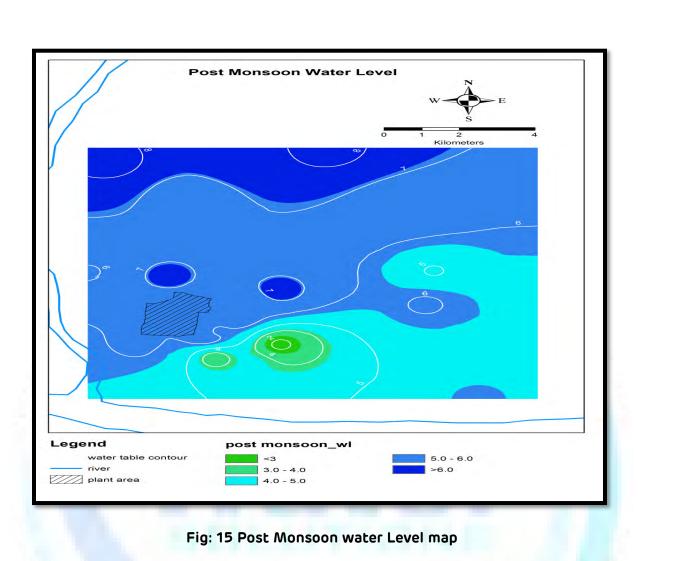
7.2.1.1 Pre-monsoon Depth to Water level (May'2022)

The depth to water level map has been prepared based on ground water monitoring data of May 2022. From the perusal of Table 7.1, it is observed that the overall depth to water level in area remains between 3.50 to 9.65 meters below ground level in core and buffer zone. The lowest water level observed at Village Bunga and Maximum water level observed at Chandli are 3.5 & 9.65 mbgl respectively. The pre monsoon water level map study is given below at Fig. 7.



7.2.1.2 Post-monsoon Depth to Water level (November'2022)

The depth to water level map has been prepared based on ground water monitoring data of November 2022. From the perusal of the Table 7.1, it is observed that the overall depth to water level in area remains between 1.45 to 8.5 meters below ground level in core and buffer zone. The minimum post-monsoon depth to water level is observed at the village Banga and maximum at village Chandli. The post monsoon depth to water level map is given below Fig. 15.



8. GROUND WATER FLUCTUATION:

The difference between pre and post monsoon water level of the year is most important seasonal fluctuation which gives a clear picture of ground water potential which can be utilized for various uses over succeeding year. The fluctuation is used to evaluate the dynamic ground water resources through the change in ground water storage. The water level fluctuation between pre and post monsoon period is generally is in the range of 0.5 to 3.0 m with an average fluctuation 1.2 m.

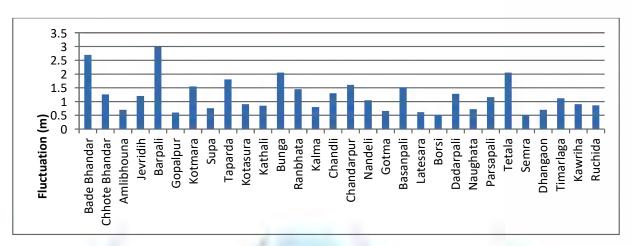


Fig. 16: Fluctuation (Raise/Fall) Analysis of the Study Area

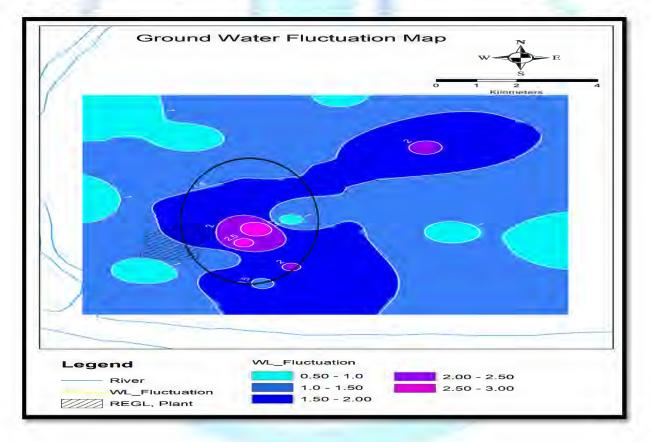


Fig. 17: Ground water Fluctuation Map

9. GEOPHYSICAL STUDY

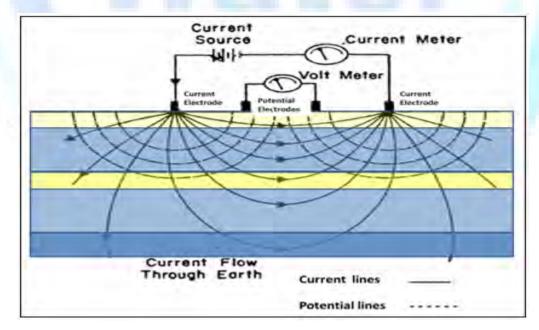
9.1 Introduction

To delineate the aquifer geometry Vertical Electrical Sounding (VES) by Schlumberger configuration are conducted in the plant area at village Bade Bhandar, Block Pussore, district Raigarh, Chhattisgarh. Location of VES is selected as per availability of open straight line workable space to cover the entire area. Depending upon the objectives the maximum current electrode spacing (AB) was kept 100 m. The spacing of the electrode controls the depth of investigation and the desired spacing facilitates to get the subsurface information to the depths suitable for facilitating the rainwater harvesting. The observed resistance value from instrument was multiplied with geometric factor (K) to get the apparent resistivity values for each electrode spacing for each measurement. The field apparent resistivity data were plotted on log-log paper against the half current electrode separation to get the VES curves.

The method Vertical Electrical Sounding (VES) which reflects vertical distribution of electrical resistivity.

$$\rho = K \frac{\Delta V}{i}$$

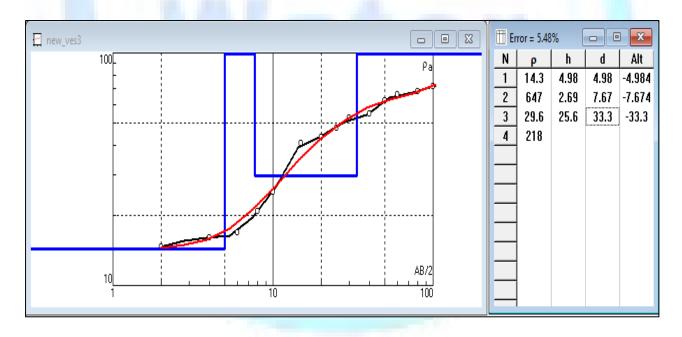
Schematic view of electrical resistivity method



VES-01

AB/2	MN/2	GEOLOGICAL	RESISTANC	APPRENT
		FECTOR	E	RESISTIVITY
2	0.5	11.79	1.08	12.7
4	0.5	49.5	0.28	13.9
6	0.5	112.36	0.13	14.6
8	0.5	200.36	0.09	18.0
10	2	313.5	0.07	21.9
15	2	706.36	0.05	35.3
20	2	1256.36	0.03	37.7
25	2	1963.5	0.021	41.2
30	2	2827.79	0.016	45.2
30	5	275	0.19	52.3
40	5	495	0.11	54.5
50	5	777.86	0.08	62.2
60	5	1123.57	0.059	66.3
80	5	2003.57	0.034	68.1
100	5	3135	0.023	72.1

Table No: 7

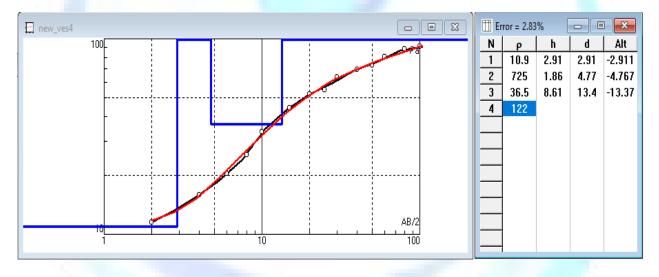


VES-02

AB/2	MN/2	GEOLOGICAL	RESISTANC	APPRENT
		FECTOR	E	RESISTIVITY
2	0.5	11.79	0.92	10.8

4	0.5	49.5	0.301	14.9
6	0.5	112.36	0.17	19.1
8	0.5	200.36	0.12	24.0
10	2	313.5	0.1	31.4
15	2	706.36	0.059	41.7
20	2	1256.36	0.039	49.0
25	2	1963.5	0.026	51.1
30	2	2827.79	0.021	59.4
30	5	275	0.23	63.3
40	5	495	0.14	69.3
50	5	777.86	0.094	73.1
60	5	1123.57	0.072	80.9
80	5	2003.57	0.044	88.2
100	5	3135	0.029	90.9





After the close observation of VES curves and its interpretation it is very clear that the study area is having two to four layers earth model up-to depth of investigation. The thickness of topsoil is varying between 0.6 to 6.0 m with resistivity value 6 to 80 Ohm-m indicative of clayey to saturated sandy nature of soil. The lower value of resistivity indicates clayey nature of soil whereas the higher values indicate unsaturated shale nature of soil. The second layer at these locations is showing mixed nature of hydrogeological condition with depth range between 4.0 to 1.0 m and resistivity range between 6 Ohm-m to 160 Ohm-m. The lower value of resistivity (6 – 20 Ohm-m) indicates clay whereas the higher values (20 – 160 Ohm-m) indicate hard shale. The third layer at various locations is indicating again mixed nature of hydrogeology with depth range between 35.0 to 57.0 m and resistivity range between 10 Ohm-m to 2000 Ohm-m.

The resistivity value is varying due to lithological variation as limestone formation is intercalated with shale formation at limited locations. At majority of location this layer is encountered as last layer up to depth of investigation. The saturated zones occurring below water level contains potable formation water in this layer. The fourth and last layer at locations of VES1, VES4, VES5, VES8 and VES17 with resistivity values from 150 to 1800 Ohm-m is indicative of limestone formation. The lower value of resistivity (150 – 230 Ohm-m) indicates fractured limestone whereas the higher value (800 - 1800 Ohm-m) indicates hard and massive limestone. The potential aquifer in entire plant area is occurring within depth range from 20 to 57 m.

9.2 Scope of Study:

The scope of study includes Environmental Services in respect of ambient air quality monitoring, noise level monitoring & Sampling and Analysis of ground water quality, surface water quality, treated effluent sewage, effluent water from ETP and soil.

9.3 Methodology:

As mentioned in the scope of work covering the various Environmental components monitoring and sampling and its analysis was carried out based on the guidelines of Ministry of Environment Forest & Climate Control of Government of India & Chhattisgarh State Pollution Control Board. Sampling procedure method reference and Analysis procedure method reference are mentioned in monitoring reports.

9.4 Ambient Air Quality Monitoring:

The ambient air quality has been carried out at various sources of air pollution surrounding and in the Plant. The prime objective of the ambient air quality monitoring is to access the existing air quality of the area. The ambient air quality monitoring was carried out for 24 hours at each station. At all stations SO2, NO2, PM10, PM2.5, CO and Mercury were monitored. All the samples collected were analyzed for quantitative analysis of various pollutants. The ambient air quality sampling locations were identified by the Environmental Officer of Raigarh Energy Generation Ltd.

9.5 Water Environment:

The ground water samples, surface water samples were collected from selected locations in two-liter sterilized plastic cans. These samples were analyzed as per IS 10500:2012. The domestic effluent and Industrial effluent samples were collected and analyzed for parameters: pH, Total suspended solids, Biochemical Oxygen Demand, Chemical Oxygen Demand and Oil & Grease.

9.6 Chemical quality

The water samples for the period of last five years (2010-2014) were collected and analyzed for both core and buffer zones. Comparison has been made to have an overall chemical quality and changes over the years within the study area. The chemical quality of ground water was evaluated by collection of 10 nos. of water samples from selected villages (core and buffer zone). The photographs of hand pumps are indicated in **plate - II**, which was taken during sampling of ground water. The year wise summarized results of Chemical quality of groundwater in the study area are presented in **Table** no 9

Para- Meters		ed limits as 5 10500	Observed values(Pre-monsoon)					
1	Desirabl e limit	Permissibl e limit	2010	2011	2012	2013	2014	2022
рН	6.5-8.5	No Relaxation	7.4-8.0	7.5- <mark>8.</mark> 2	7.4-8.1	7.5-8.3	7.4-8.3	7.3-8.1
TDS(Mg/I)	500	2000	409- 606	400- 620	395- 610	388- 600	395-615	395-615
TH as CaCo3 (Mg/I)	200	600	193-437	202- 445	199- 440	200- 450	205-459	199-489
Alkalinity (Mg/l)	200	600	203- 290	210- 305	208- 312	210-318	215-325	217-330
Ca(Mg/I)	75	200	33-114	35-100	37-109	40-111	42-115	40-121
Mg(Mg/I)	30	100	18-62	22-68	20-70	24-74	28-80	27-78
CI (Mg/I)	250	1000	23-46	25-50	22-54	25-58	24-62	23-58
Fe(Mg/I)	0.3	No Relaxation	0.12- 0.27	0.14- 0.28	0.13- 0.31	0.13- 0.37	0.14- 0.41	0.13- 0.39
S04(Mg/I)	200	400	16-176	46-159	42-165	45-170	46-177	46-177
F(Mg/l)	1	1.5	0.21- 0.36	0.25- 0.55	0.23- 0.52	0.25- 0.60	0.22- 0.58	0.24- 0.57
NO3(Mg/I)	45	No Relaxation	5.6-29	11-32	9-35	12-42	10-40	11-42

Table 9: Year wise summarized results of chemical quality of ground water in the study area

The analysis of the chemical data shows that, the quality of ground water in the area (both core and buffer zone) is generally alkaline in nature. All major ions are within the limits of Bureau of Indian Standards for drinking purposes and meet the quality requirements of irrigation. Thus ground water is suitable for irrigation, domestic as well as drinking purposes and there is no remarkable change in chemical quality.

CONCLUSION

The study has been carried out to assess the impact of ground water abstraction on ground water storage and to identify the potential areas that have registered change in ground water levels and quality which in turn would help in identifying the appropriate measures for adoption of artificial recharge to neutralize the negative impact of the envisaged ground water development in and around the project area located at village- Chote Bhandar, Pussor block, District Raigarh, Chhattisgarh.

In the present report, the monitored data has been presented and the overall picture of ground water storage behavior due to continuous abstraction of ground water has been analyzed for the January 2010 to Nov 2014. The ground water monitoring study and results of analysis of water levels carried out in and around plant area within core and buffer zone shows that, ground water development in the area has been reflected in the depth to water levels of pre- and post-monsoon period and long-term trend of water levels.

Overall, from the comparison of mean water levels of the year 2010 to 2013 with respect to the years 2014 in pre-monsoon period all the villages in core zone which are considered for analysis showing decline trend in the range of -0.36 to -0.74 m while in the buffer zone also all the villages are showing declining trend in the range of -0.12 to -0.51 m. except Amaldiha, Kansara&Kauriha village which are showing rise in water level (0.04 - 0.08m)and in post-monsoon period, it is found that all the villages in core zone considered for analysis showing decline trend in the range of -0.34 to -0.43 m while in the buffer zone all the villages showing decline trend in the range of -0.12 to -0.54 m except Amaldiha, Kansara and Kauriha which are showing rising trend in the range of 0.01 to 0.09 m. The water level trend in both the periods showing marginal decline i.e. <1.00 m over the period of five years which may also be attributed to various industrial development activities going on in the area.

The analysis of the chemical data shows that, the quality of ground water in the area (both core and buffer zone) is generally alkaline in nature. All major ions are within the limits of Bureau of Indian Standards for drinking purposes and meet the quality requirements of irrigation. Thus, ground water is suitable for irrigation, domestic as well as drinking purposes and there is no remarkable change in chemical quality of ground water in and around the area.

Results of long-term monitoring of water levels in the area has indicated declining trend of water levels which warrants for taking up suitable measures for artificial recharge to ground water system. This increasing stress on ground water needs preventive action for water harvesting and recharge to ground water.

SUGGESTIVE MEASURES

To maintain the ground water balance in the area, few measures are suggested below.

The ground water regime (both core and buffer zone) should be regularly monitored, and the distribution of the observation stations should be denser in the core zone especially. Purpose-built piezometers can be installed at suitable locations to have a closer observation of ground water level behavior in the core zone.

Suitable additional ground water recharge mechanism needs to be adopted in the core zone of the project area. Additional ponds may be considered for enhancing the ground water recharge. The selection and proper design of artificial recharge and water harvesting structures should be based on proper understanding of hydrology, hydrogeology of the project area. Geophysical survey is suggested for knowing the areas suitable for recharge, exact depth of recharge wells and aquifer geometry in the area.

The long-term water level monitoring in and around the area for the pre-monsoon & postmonsoon period over the years, reveals that the villages of core zone have registered marginal decline which may be accorded priority for taking up of recharge measures. Such initiatives would ease out the long-term negative impact of any ground water decline.

The chemical quality of ground water for core and buffer zone indifferent seasons should be monitored properly and regularly to watch change in chemical quality of ground water in and around the area over the period of observation.

-End-

ENVIRONMENTAL MONITORING REPORT



Submitted To:



Village- Chhote Bhandar,Post- Bade Bhandar,Dist.-Raigarh, Chhattisgarh 496100

Bv:

M/s VIBRANT TECHNO LAB PRIVATE LIMITED SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur, Raj. 302020 E-Mail:- <u>bd@vibranttechnolab.com</u>

Formerly M/s Raigarh Energy Generation Ltd. Located at Village Chhote Bhandar, Post office Bade Bhandar, Tehsil-Pussore Dist.-Raigarh -496100 (Chhattisgarh)

2nd Half Yearly Environmental Monitoring Report

PREFACE

The growing concern for environment protection and the passing of various environmental legislations have increased the responsibilities of Ministry of Environment, Forest & Climate change, Pollution Control boards in many folds. Besides enforcing the various environmental legislations MoEF&CC, CPCB & SPCB strive to propagate the necessity awareness regarding the various legal provisions and environmental protection measures in the country.

Electric Power scenario has occupied a significant place in the development program of the country Development and environment can neither be separated nor ignored. In fact, they are complimentary to each other. These issues have become a concern of the community, particularly the environment impact due to industries in the developing countries.

However, the prerequisite for sustainable development is judicious planning of environmental status, likely impacts of the approach adopted on the environment including inhabitants of the locality, availability of the eco-friendly technology, emerging waste disposal and waste utilization processes, techniques of land reclamation for the restoration of aesthetic beauty and soon.

M/s Adani Power Limited Formerly M/s Raigarh Energy Generation Ltd. Located at Village Chhote Bhandar, Post office Bade Bhandar, Tehsil-Pussore, Dist.-Raigarh -496100 (Chhattisgarh), India, has engaged M/s Vibrant Technu lab Pvt. Ltd. (Raj.) to provide Environmental services in respect of ambient air quality monitoring, stack emission, noise level monitoring & Sampling and Analysis of ground water quality, surface water quality, treated effluent sewage, effluent water from ETP, and soil for M/s Adani Power Limited. Raigarh district of Chhattisgarh, as per guidelines of MoEF & CC an CPCB Gazette Notification.

M/s Vibrant Techno lab Pvt. Ltd. (Raj.) has deployed entirely its own personnel, facilities and expertise for doing this service, Sampling/Monitoring Stations were identified by the Environmental Officer of M/s Adani Power Limited, Raigarh. The samples were analyzed Partly at site and partly at our MoEF Recognized laboratory situated a Jaipur (Rajasthan).

This report presents the data generated for the period from Oct 2023 to Mar 2024 i.e., for Second quarter which includes sampling locations, Methodology, testing procedure and compilation for the Environmental parameters i.e. Air, Water, Soil & Noise with a view to evaluate the impact due to the thermal power plant activities.

During the course of our operations for the above task, the staff and management of M/s Adani Power Limited, Raigarh were extremely co-operative. We are grateful to them for their invaluable support and assistance rendered to us during the course of the sampling and monitoring.

Date: 09.04.2023

Formerly M/s Raigarh Energy Generation Ltd. Located at Village Chhote Bhandar, Post office Bade Bhandar, Tehsil-Pussore, Dist.-Raigarh -496100 (Chhattisgarh)

2nd Half Yearly Environmental Monitoring Report

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Formerly M/s Raigarh Energy Generation Ltd. Located at Village Chhote Bhandar, Post office Bade Bhandar, Tehsil-Pussore, Dist.-Raigarh -496100 (Chhattisgarh)

2nd Half Yearly Environmental Monitoring Report

Chapter-1

INTRODUCTION

M/s Adani Power Limited, Raigarh a subsidiary of Adani Power, is a power generation company based at Raigarh in the State of Chhattisgarh. On 07-Sep-2019, "Adani Power Limited" got approval from NCLT to become new owner of this project M/s Adani Power Limited (Formerly "Raigarh Energy Generation Ltd."), has commissioned its Thermal Power Plant first 600MW Unit at Village Chhote Bhandar, Post Office Bade Bhandar, Raigarh- 496100, India. The second unit of 600MW is under implementation.

M/s Adani Power Limited, is also committed towards the environment and the community it operates in. It has successfully implemented several community welfare schemes in the field of livelihood, infrastructure, community health and education which has so far benefited over 60,000 people from close to 75 villages.



Fig 1: M/s Adani Power Limited

Formerly M/s Raigarh Energy Generation Ltd. Located at Village Chhote Bhandar, Post office Bade Bhandar, Tehsil-Pussore, Dist.-Raigarh -496100 (Chhattisgarh)

2nd Half Yearly Environmental Monitoring Report

Chapter-2

PROJECT PROFILE

2.1 Topography & Drainage

Topography of this area is generally undulating. The area is drained by Mand River approximately 3 km. away from plant in North direction and Mahanadi River approximately 5 km. away from plant in South direction.

2.2 Location

Plant is bounded by Northern Latitudes of 21° 44' 00" to 21° 44' 42" and Eastern Longitude of 83° 16' 30" to 83° 17' 18". This area falls in the survey of India toposheet no. 64 O/1, 64 O/2, 64 O/5 and 64 O/6. The location of the mine area is shown in **Fig. No. 2**

2.3 Climate

The climate of the area is Sub-tropical type. It is in the zone of humid tropic climate where temperature and humidity of air are very high. The temperature varies from the minimum - maximum temperature range between 29.5°C - 49 °C in summer, and 8°C - 25 °C in winter. The humidity varies from 35% to 82%. The annual average rainfall in the area is about 1300 mm.

2.4 Communication

The nearest railway station is Kirodimal, which is at a distance of ~ 23 Km towards North direction. The area is well connected with N.H. No. 216. Nearest Airport is Raipur ~ 250 km in SW direction. Nearest village is Bade Bhandar ~ 1 km. in North direction and nearest town is Raigarh ~ 21 km. in North-East direction

Formerly M/s Raigarh Energy Generation Ltd. Located at Village Chhote Bhandar, Post office Bade Bhandar, Tehsil-Pussore, Dist.-Raigarh -496100 (Chhattisgarh)

2nd Half Yearly Environmental Monitoring Report

Chapter – 3.0

SCOPE OF STUDY & METHODOLOGY

3.1 Scope of Study

The scope of study includes Environmental Services in respect of ambient air quality monitoring, noise level monitoring & Sampling and Analysis of ground water quality, surface water quality, treated effluent sewage, effluent water from ETP and soil.

3.2 Methodology

As mentioned in the scope of work covering the various Environmental components monitoring and sampling and its analysis was carried out on the basis of guidelines of Ministry of Environment Forest & Climate Control of Government of India & Chhattisgarh State Pollution Control Board. Sampling procedure method reference and Analysis procedure method reference are mentioned in monitoring reports.

3.2.1 Ambient Air Quality Monitoring

The ambient air quality has been carried out at various sources of air pollution surrounding and in the Plant. The prime objective of the ambient air quality monitoring is to access the existing air quality of the area.

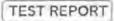
The ambient air quality monitoring was carried out for 24 hours at each station. At all stations SO₂, NO₂, PM₁₀, PM_{2.5}, CO and Mercury were monitored. All the samples collected were analyzed for quantitative analysis of various pollutants. The ambient air quality sampling locations were identified by the Environmental Officer of M/s Adani Power Limited

3.2.2 Water Environment

The ground water samples, surface water samples were collected from selected locations in two-liter sterilized plastic cans. These samples were analyzed as per IS 10500:2012. The domestic effluent and Industrial effluent samples were collected and analyzed for parameters: pH, Total suspended solids, Biochemical Oxygen Demand, Chemical Oxygen Demand and Oil & Grease.

3.2.3 Noise Environment

Sound level meter was used to know the sound levels generated due to plant activities at different locations. The measurements were taken for Equivalent sound level over a time period for day and night which is expressed in dB(A).







Samo	he wimaginable" Number : VTL/AA/01			Perced No.		2212220001/4	
10.000	& Address of the Party	 M/s Adani Power Lim 	ad	Report No.		2312230001/A	
Name	a Address of the Party			Format No	: 7.8 F-0	2	
			dar, Post- Bade Bhandar, Raigarh 496100 Chhattisgarh	Party Reference No			
		Tensi- Fussore Dist.	- Raigam 490100 Crinattisgam	Report Date	ate : 29/12/2023		
				Period of Analysis	: 23/12/2	2023-29/12/2023	
-	24.2010.02.01.02.000			Receipt Date	: 23/12/2	2023	
Samp	le Description : AMBIENT AIR QUALITY MONITORING						
	General Information Sampling Location Sample Collected By		: Bade Bhandar : VTL Team				
	Sampling Equipment	used	: RDS/FPS				
	Instrument Code		: VTL/RDS/FPS/01				
	Coordinates		: 21°44'14" & 83°17'29"				
	Meteorological condition	tion during monitoring	: Clear Sky				
	Date of Monitoring		: 18/12/2023 To 19/12/20	23			
	Time of Monitoring		: 09:30 TO 09:30 Hrs.				
	Ambient Temperature	("C)	: Min. 12°C Max. 26°C				
	Surrounding Activity		: Human, Vehicular & Ot	her Act			
	Scope of Monitoring		: Regulatory Requirment	1100 110			
	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 PM	10) IS:518	2 (P- 23)-2006, RA. 2017	61.6	µg/mª	100	
2	Particulate Matter (as PM	12.5) (3	5:5182 (P- 24)-2019	28.0	µg/m ^a	60	

2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	28.0	µg/m³	
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA-2018	15.4	µg/m³	
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2)-2001, RA. 2018	7.5	µg/m³	11.1
-					_

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

End of Report









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Sample Description

Number: VTL/AA/01	1		Report No.	: VTL/A/2312230001/B
Address of the Party	* M/s Adani Power Limited		Format No	: 7.8 F-02
	Village- Chhote Bhandar, P		Party Reference No.	: NIL
	Tehsil- Pussore Dist Raig	arh 496100 Chhattisgarh	Report Date	: 29/12/2023
			Period of Analysis	: 23/12/2023-29/12/2023
			Receipt Date	: 23/12/2023
Description	: AMBIENT AIR QUALITY N	ONITORING		
General Information Sampling Location	n:- :	Bade Bhandar		
Sample Collected By	:	VTL Team		
Sampling Equipment	ucad			

Sampling Location	: Bade Bhandar
Sample Collected By	: VTL Team
Sampling Equipment used	: RDS/FPS
Instrument Code	: VTL/RDS/FPS/01
Coordinates	: 21*44'14" & 83*17'29"
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 18/12/2023 To 19/12/2023
Time of Monitoring	: 09:30 TO 09:30 Hrs.
Ambient Temperature (*C)	! Min. 12"C Max. 26"C
Surrounding Activity	Human, Vehicular & Other Act.
Scope of Monitoring	: Regulatory Requirment
Method of Sampling	: IS 5182
Sampling Duration	: 24 Hrs.
Parameter Required	: As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.66	mg/m ^a	4
2	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ (**LOQ 0.5)	µg/mª	-

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

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Sample Number : VTL/AA/03				Report No.	; VTL/A/2312230003/A
Name & Address of the Party ;	M/s Adani Power Limite	d		Format No	• 7.8 F-02
101274201000000000000000000000000000	Village- Chhote Bhandar, Post- Bade Bhandar,		Party Reference No		
	Tehsil- Pussore Dist R	taiga	rh 496100 Chhattisgarh	Report Date	: 29/12/2023
				Period of Analysis	: 23/12/2023-29/12/2023
				Receipt Date	: 23/12/2023
Sample Description :	AMBIENT AIR QUALITY	YM	ONITORING		
General Information:- Sampling Location	-	:	Near OHC		
Sample Collected By		:	VTL Team		
Sampling Equipment us	ed	:	RDS/FPS		
Instrument Code		:	VTL/RDS/FPS/02		
Coordinates		:	je na stanestna te stane. 🖶		
Meteorological conditio	n during monitoring	:	Clear Sky		
Date of Monitoring			18/12/2023 To 19/12/20	23	
Time of Monitoring		:	10:30 TO 10:30 Hrs.	22	
Ambient Temperature (*	C)		Min. 12°C Max. 26°C		
Surrounding Activity		1	Human, Vehicular & Oth	er Act	
Scope of Monitoring			Regulatory Requirment	an Carlo	
Method of Sampling			IS 5182		
Sampling Duration		1	24 Hrs.		
Parameter Required		d.	As per work order		

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1 I	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA 2017	66.5	pg/m ^x	100
2	Particulaté Matter (as PM2.5)	IS:5182 (P- 24)-2019	29.4	ug/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA.2018	17.6	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5162 (P- 2)-2001, RA. 2018	8.6	µg/mª	80

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

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M/s Adani Power Limited Report No. : VTL/A/2312230003/B Village- Chhote Bhandar, Post- Bade Bhandar, Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh Period of Analysis : 23/12/2023-29/12/2023 Receipt Date : 23/12/2023

Sample Description : AMBIENT AIR QUALITY MONITORING General Information:-Sampling Location : Near OHC Sample Collected By : VTL Team Sampling Equipment used RDS/FPS . Instrument Code VTL/RDS/FPS/02 2 Coordinates 2 -Meteorological condition during monitoring : Clear Sky **Date of Monitoring** : 18/12/2023 To 19/12/2023 **Time of Monitoring** : 10:30 TO 10:30 Hrs. Ambient Temperature (*C) . Min. 12°C Max. 26°C Surrounding Activity : Human, Vehicular & Other Act. Scope of Monitoring : Regulatory Requirment Method of Sampling : IS:5182 Sampling Duration : 24 Hrs. Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.61	mg/m³	4
2	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/mª)#?

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

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Samp	le Number : VTL/AA/04	í -		Report No.	· VTI /A/	2312230004/A
Name	& Address of the Party	. M/s Adani Power Lim	ited	Format No	1.1.1.1.1.1.1.1.1.1	Contraction of the second
1000	a manual of the fully		idar, Post- Bade Bhandar,		: 7.8 F-0	2
			- Raigarh 496100 Chhattisgarh	Party Reference No		
		i chan i daadie bist.	Naigani 450 100 Chinatisgani	report bate	: 29/12/2	2023
				Period of Analysis	: 23/12/2	023-29/12/2023
				Receipt Date	: 23/12/2	023
Samp	le Description	: AMBIENT AIR QUAL	ITY MONITORING			
	General Information Sampling Location	1:-	: RO- MD			
	Sample Collected By		: VTL Team			
	Sampling Equipment	used	: RDS/FPS			
	Instrument Code		: VTL/RDS/FPS/04			
	Coordinates		: 21*44'42" & 83*16'35"			
	Meteorological condit	ion during monitoring				
	Date of Monitoring		: 18/12/2023 To 19/12/20	22		
	Time of Monitoring		: 10:40 TO 10:40 Hrs.	23		
	Ambient Temperature	(°C)	: Min. 12*C Max. 26*C			
	Surrounding Activity		: Human, Vehicular & Ott			
	Scope of Monitoring		: Regulatory Requirment			
	Method of Sampling		: IS 6182			
	Sampling Duration		: 24 Hrs.			
	Parameter Required		: As per work order			
6.00	1		True minimum			
S.No.	Parameters	-	Test Method	Results	Units	NAAQS 200
1	Particulate Matter (as PM)	10) 15:518	2 (P- 23)-2006, RA 2017	67.6	Hg/m ^a	100
2	Particulate Matter /os PM	2.51	0100 /0 01/ 0010	201		

_					the second se
1	Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA 2017	67.6	µg/m ^a	100
2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	30.4	µg/m²	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P-6)-2006, RA.2018	17.3	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2018	9.8	µg/m²	80

Quantification limit Of

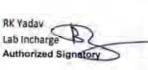
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Sample Number : VTL/AA/04			Report No.	: VTL/A/2312230004/B
Name & Address of the Party	M/s Adani Power Limit	ed	Format No	: 7.8 F-02
		ar, Post- Bade Bhandar,	Party Reference No	
	Tehsil- Pussore Dist I	Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023
			Period of Analysis	: 23/12/2023-29/12/2023
			Receipt Date	: 23/12/2023
Sample Description	: AMBIENT AIR QUALIT	TY MONITORING		
General Information Sampling Location Sample Collected By Sampling Equipment Instrument Code Coordinates Meteorological condit Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Scope of Monitoring Method of Sampling Sampling Duration	used ion during monitoring	 RO- MD VTL Team RDS/FPS VTL/RDS/FPS/04 21*44'42" & 83*16'35" Clear Sky 18/12/2023 To 19/12/20 10:40 TO 10:40 Hrs. Min. 12*C Max. 26*C Human, Vehlcular & Oth Regulatory Requirment IS :5182 24 Hrs 		
D		e-tild.		

	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	0.52	mg/mª	4
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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Samp	ble Number : VTL/AA/05	5		Report No.	· VTL/A/	2312230005/A
Name	& Address of the Party	: M/s Adani Power Lim	ited		~ 영영학학	the state of the state of the
	ole Description General Information Sampling Location Sample Collected By Sampling Equipment Instrument Code Coordinates Meteorological condit Date of Monitoring	Village- Chhote Bhan Tehsil- Pussore Dist. : AMBIENT AIR QUAL n:-	dar, Post- Bade Bhandar, - Raigarh 496100 Chhattisgarh	Format No Party Reference No Report Date Period of Analysis Receipt Date	: 29/12/2	023 023-29/12/2023
	Time of Monitoring Ambient Temperature Surrounding Activity Scope of Monitoring Method of Sampling Sampling Duration Parameter Required	("C)	 09:45 TO 09:45 Hrs. Min. 12°C Max. 25°C Human, Vehicular & Oth Regulatory Requirment IS :5182 24 Hrs. As per work order 	er Act.		
S.No.	Parameters		Test Method	Results	Units	NAAQS 2009
2	Particulate Matter (as PM	10) IS:518	2 (P- 23)-2006, RA. 2017	60.6	µg/m³	100
2	Particulate Matter (as PM	2.5) 15	5:5182 (P- 24)-2019	25.7	µg/mª	60

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

Nitrogen Dioxide (as NO2)

Sulphur Dioxide (as SO2)

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End of Report

IS:5182 (P- 6)-2006, RA.2018

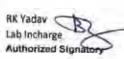
IS:5182 (P-2)-2001, RA. 2018

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16.2

9.3

µg/mª

µg/m*



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- 3	Sample Number : VTL/AA/05				Report No.	÷,	VTL/A/2312230005/B	
1	Name & Address of the Party	M/s Adani Power Limite	ed		Format No		7.8 F-02	
		Village- Chhote Bhand	ar, P	ost- Bade Bhandar,	Party Reference No		NIL	
		Tehsil- Pussore Dist I	Raig	arh 496100 Chhattisgarh	Report Date	:	29/12/2023	
					Period of Analysis	:	23/12/2023-29/12/2023	
					Receipt Date		23/12/2023	
	Sample Description	: AMBIENT AIR QUALIT	YM	ONITORING				
	General Information Sampling Location Sample Collected By Sampling Equipment u		: : :	Village Kathli VTL Team RDS/FPS				
	Instrument Code		:	VTL/RDS/FPS/01				
	Coordinates		:	21*43'26" & 83*16'24"				
	Meteorological conditi	on during monitoring	:	Clear Sky				
	Date of Monitoring		1	19/12/2023 To 20/12/20	23			
	Time of Monitoring		:	09:45 TO 09:45 Hrs.	38/			
	Ambient Temperature (*C)	: Min. 12°C Max. 25°C					
	Surrounding Activity		7	Human, Vehicular & Oth	er Act			
	Scope of Monitoring		÷.	Regulatory Requirment				
	Method of Sampling		-	IS :5182				
	Sampling Duration		E.	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*	4
2	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed., 1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m³	

: 24 Hrs.

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

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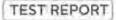
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	he unimaginable" Ne Number : VTL/AA/07	7		Report No.	• VTI /A	/2312230007/A
Name	& Address of the Party	; M/s Adani Power Lim		Format No Party Reference No	: 7.8 F-(All and a second second
Sample Description General Information Sampling Location Sample Collected By		Tehsil- Pussore Dist.	Village- Chhote Bhandar, Post- Bade Bhandar, Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh AMBIENT AIR QUALITY MONITORING : Truck Hopper : VTL Team		: 29/12/	2023-29/12/2023
	Sampling Equipment Instrument Code Coordinates Meteorological condit Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Scope of Monitoring Method of Sampling Sampling Duration Parameter Required	tion during monitoring	: RDS/FPS : VTL/RDS/FPS/04 : : Clear Sky : 19/12/2023 To 20/12/2 : 10:40 TO 10:40 Hrs. : Min 12*C Max 25*C : Human, Vehicular & Ot : Regulatory Requirment : IS :5182 : 24 Hrs. : As per work order	her Act		
S.No.			Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM		2 (P- 23)-2006, RA. 2017	56,9	µg/m³	100
2	Particulate Matter (as PM)	2,5) 15	5182 (P-24)-2019	37.3	µg/m³	60
1.0	added to the last of the state of the state of the					

4	Sulphur Dioxide (as SO2)	IS:5182 (P-2)-2001, RA. 2018
"BL	2-Below Limit Of Quantification, **LOQ-I	Imit Of Quantification

Nitrogen Dioxide (as NO2)

End of Report

IS:5182 (P- 6)-2006, RA.2018



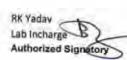


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18.7

9.8

µg/mª

µg/m³



Page No. 1/1

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Samp	he unimoginable" VTL/AA/08	3		Report No.	• VTI /A	23122200000/A	
Name	& Address of the Party	. M/s Adani Power Lim	M/s Adani Power Limited		: VTL/A/2312230008/A		
	Village- Chhote Bhandar, Post- Bade Bhandar, Tehsil- Pussore Dist Raigarh 496100 Chhattisga Ne Description : AMBIENT AIR QUALITY MONITORING		Format No Party Reference No h Report Date Period of Analysis Receipt Date	: 29/12/2	2023 2023-29/12/2023		
	General Information Sampling Location Sample Collected By Sample Collected By Sampling Equipment Instrument Code Coordinates Meteorological condit Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Scope of Monitoring Method of Sampling Sampling Duration Parameter Required	used	 Hydrobin Area VTL Team RDS/FPS VTL/RDS/FPS/05 Clear Sky 19/12/2023 To 20/12/2 11:00 TO 11:00 Hrs. Min 12°C Max. 25°C Human, Vehicular & O Regulatory Requirment IS -5182 24 Hrs. As per work order 	Other Act			
S.No.	Parameters		Test Method	Results	Units	NAAQS 2009	
1	Particulate Matter (as FM)	10) IS:5182	(P-23)-2006, RA 2017		ug/mª		
2	Particulate Matter (as PM2		:5182 (P- 24)-2019		µg/m³	100	
3	Nitrogen Dioxide (as NO2)		2 (P- 6)-2006, RA.2018		µg/mª	80	
S.No. 1 2				10.0	Paur.	80	

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

Sulphur Dioxide (as SO2)

End of Report

IS:5182 (P-2)-2001, RA. 2018

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10.2

µg/mª



80

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Sample Number: Name & Address of the Party:

Sample Description:

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

Report No.:	VTL/FA/2312230001
Format No.:	7.8 F-01
Party Reference No.	: NIL
Report Date:	29/12/2023
Period of Analysis:	23/12/2320-
	29/12/2023
Receipt Date:	23/12/2023
Sampling Date:	19/12/2023
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 Gr)	BY AAS Method	0.54	mg/kg
4.	Lead (as Pb)	BY AAS Method	0.73	mg/kg
5.	Barium (as Ba)	BY AAS Method	0.30	mg/kg
6.	Cadmium (as Cd)	BY AAS Method	0.60	mg/kg
7.	Cobalt (as Co)	BY AAS Method	0.21	mg/kg
R.	Copper (as Cu)	BY AAS Method	0.54	mg/kg
9,	Fluoride (as F)	BY AAS Method	0.48	mg/kg
10.	Iron (as Fe)	BY AAS Method	0,61	mg/kg
11.	Mercury (as Hg)	BY AAS Method	0.26	mg/kg
12.	Mangnese (as Mn)	BY AAS Method	0.19	mg/kg
13.	Nickel (as Ni)	BY AAS Method	0.27	mg/kg
14.	Zinc (as Zn)	BY AAS Method	0.38	mg/kg
15.	Silica (SiO2)	IS: 1727: 1967	55.00	96
16,	Ferric Oxide (Fe2O3)	IS: 1727: 1967	7.40	%
17.	Alumina Oxide (Al2O3)	IS: 1727: 1967	31.00	%
18.	Sulphuric Anhydride (SO3)	15:1727:1967	0.28	%
19,	Sodium Oxide	IS: 1727: 1967	0.035	%
20,	Potassium Oxide	IS: 1727: 1967	0.053	%
21.	Calcium Oxide	15:1727:1967	3.20	%
22.	Magnesia (MgO)	IS: 1727: 1967	0.81	%
23.	Titanium Dioxide (Tio2)	IS: 1727: 1967	0.08	%
24.	P205	IS: 1727: 1967	0.07	%





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Sample Number: Name & Address of the Party:

Sample Description:

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

VTL/BA/2312230001 Report No.: Format No.: 7.8 F-01 Party Reference No.: NIL **Report Date:** 29/12/2023 Period of Analysis: 23/12/2320-29/12/2023 Receipt Date: 23/12/2023 Sampling Date: 19/12/2023 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	12.16	mg/kg
4.	Lead (as Pb)	BY AAS Method	15.78	mg/kg
S.	Barium (as Ba)	BY AAS Method	0,49	mg/kg
6.	Cadmium (as Cd)	BY AAS Method	10.32	mg/kg
7.	Cobalt (as Co)	BY AAS Method	0.17	mg/kg
8.	Copper (as Cu)	BY AAS Method	13.78	mg/kg
9.	Fluoride (as F)	BY AAS Method	0.49	mg/kg
10.	Iron (as Fe)	BY AAS Method	0.66	mg/kg
11.	Mercury (as Hg)	BY AAS Method	0,31	mg/kg
12.	Mangnese (as Mn)	BY AAS Method	0.27	mg/kg
13.	Nickel (as Ni)	BY AAS Method	0.33	mg/kg
14,	Zinc (as Zn)	BY AAS Method	0,85	mg/kg
15.	Silica (SiO2)	IS: 1727: 1967	56.00	%
16.	Ferric Oxide (Fe2O3)	IS: 1727: 1967	4.82	%
17.	Alumina Oxide (Al2O3)	IS: 1727: 1967	32.54	%
18.	Sulphuric Anhydride (SO3)	IS: 1727: 1967	0.28	%
19.	Sodium Oxide	IS: 1727: 1967	0.17	%
20.	Potassium Oxide	IS: 1727: 1967	0.22	%
21.	Calcium Oxide	IS: 1727; 1967	3,60	%
22.	Magnesia (MgO)	IS: 1727: 1967	0.91	%
23.	Titanium Dioxide (Tio2)	IS: 1727: 1967	0.18	%
24.	P205	IS: 1727: 1967	0.28	%





RK Yadav Lab Incharge Authorized Signatory

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TC-11223

: VTL/S/2312230001/A

: 23/12/2023-29/12/2023

: 7.8 F-03

: 29/12/2023

: 23/12/2023

S.No.	Parameters	100	Test Method	Deputte	114
-	Coordinates	:	-		
	Protocol used	4	IS 11255 & USEPA		
	Sampling condition	:	OK		
	Flow rate of Gas (LPM)	- 2	2.0		
	Flow rate of PM (LPM)	1	24		
	Velocity of Stack Gases (m/sec.)	1	17,22		
	Temperature of Stack Gases - Ts ("C	2) ;	129°c		
	Ambient Temperature - Ta (*C)		30°C		
	Meteorological Condition	1	Clear Sky		
	Instrument calibration status	:	Calibrated		
	Height of stack(m)	:	275 m		
	Diameter of stack(m)	:	7.5 m		
	Make of stack	:	RCC		
	Stack attached to		TPP		
	Sampling duration (Minutes)		42 min. (14:15 to 14:57 hrs.)		
	Date of Sampling		18/12/2023		
	Sample Collected By		VTL Team		
	Sampling Location		TPP		
	General Information:-	ion mor	hitoring		
Sample	Description : Stack Emiss	ine Mar	dia da a	Receipt Date	: 23/12
				Period of Analysis	: 23/12
			raigani 400100 cinatasgani	report bate	: 29/12
			dar, Post- Bade Bhandar, - Raigarh 496100 Chhattisgarh	Party Reference No	: NIL
	· mornauli ·		Contraction of the second states of the second states and	Format No	: 7.8 F
	Address of the Party : M/s Adani Po	wartim	bat	Report No.	: VTU
Sample	Number: VTL/S/01			Depart No.	

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	40.44	mg/Nm3	50
2	Sulphur Dioxide (SO2)	IS: 11255(P- 2): 1985, RA.2019	719.0	mg/Nm3	200
3	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017	257.00	mg/Nm3	450
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-0. 001)	mg/Nm3	0.03

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

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: VTL/S/2312230002/A

: 23/12/2023-29/12/2023

: 7.8 F-03

: 23/12/2023

: NIL : 29/12/2023

S.No.	Parameters	10-10-00-00-00-00-00-00-00-00-00-00-00-0	-	Tool Mathad	1		Ť
	Coordinates		:	P			
	Protocol used		4	IS 11255 & USEPA			
	Sampling condition		1	OK			
	Flow rate of Gas (LPM	4)	1	2.0			
	Flow rate of PM (LPM	/ · .	ţ	30			
	Velocity of Stack Gas		1	8.73			
	Temperature of Stack		7	95"c			
	Ambient Temperature		7	27°C			
	Meteorological Cond		12	Clear Sky			
	Instrument calibratio		:	Calibrated			
	Height of stack(m)		:	30 m			
	Diameter of stack(m)		:	0.7 m			
	Make of stack		:	MS			
	Stack attached to		:	DG Set			
	Sampling duration (M	Ainutes)	:	33 min. (16:10 to 16:43 hrs.)			
	Date of Sampling			18/12/2023			
	Sample Collected By	ē	:	VTL Team			
	Sampling Location		:	DG Set -03 1500 KVA			
19 10 B 18 19 19	General Informatio		MOI	intoring			
Sample	Description	: Stack Emission	Mar	literior	Receip	ot Date	
						of Analysis	
		Tehsil- Pussore	Dist.	- Raigarh 496100 Chhattisgarh	Repor		
				dar, Post- Bade Bhandar,	Party I	Reference No	
Name 8	Address of the Party	: M/s Adani Powe	r Lim	lited	Forma	it No	
					Repor	t No.	
etience the	Number : VTL/S/02						

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) 1985. RA 2019	62.16	mg/Nm3	75
2	Sulphur Dioxide (SO2)	IS: 11255(P-2): 1985, RA.2019	84.00	mg/Nm3	- 21
3	Total Hydrocarbon (THC)	USEPA 18: 1996	15.07	ma/Nm3	100
4	Oxide of Nitrogen (NQ2)	IS-11255 (P-7), RA 2017	391.00	ppmy	710

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Sample Number: Name & Address of the Party:

Sample Description:

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

Report No.:	VTL/C/2312230001
Format No.:	7.8 F-01
Party Reference No.:	NIL
Report Date:	29/12/2023
Period of Analysis:	23/12/2320- 29/12/2023
Receipt Date:	23/12/2023
Sampling Date:	19/12/2023
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	0.74	mg/kg
4.	Lead (as Pb)	BY AAS Method	0.61	mg/kg





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	& Address of the Party		e Bhandar, P	ost- Bade Bhandar, arh 496100 Chhattisgarh	Report No. Format No Party Reference No Report Date Receipt Date	: 7.8 F-04	123
ample	e Description	: Ambient Nois	e I evel Mon	Itoring	Contra Selectation Constantion	1	125
	of Monitoring	: Regulatory Re		noning	Sampling Duration Sample Collected	: 24 Hrs.	3
	ol Used	: IS 9989	quinnant		Contractor Sectores	: VTL Tea	
strum	nent Used	: SLM			Instrument Calibration Status	; Calibrate	ed
	General Informatio	m'-			oundration otates		
	Sampling Location			Dada Dheader			
	Instrument Code			Bade Bhandar VTL/SLM/01			
	Meteorological condi	tion during moni	toring .	Clear Sky			
	Date of Monitoring			18/12/2023 To 19/12/20	22		
	Time of Monitoring			06:00 TO 06:00 Hrs.	23		
	Ambient Temperature	(°C)		Min. 12°C Max. 26°C			
	Surrounding Activity	2.00	-	Human, Vehicular & Pla	Int Act		
	Parameter Required			As per work order	of the state		
	Coordinates			NA			
No.	Test Para	meters	1	Protocol		Test Re	sult dB(A)
			1.4	(relieve)	Day	Time	Night Time
-	144		100	10 0000 4004 DA.000			
	Leq		120	IS 9989 - 1981 RA:202		54.0	42.5
Area (ndards as per Category of Ar	Noise Pollution (Regulation	n and Control) Rules, 200		A) [
-nea (and a	1	Caregory of Al	UN LOITE	Day Time	Limits in dB(Night Time
	A		Industrial a	rea	75		70
	В		Commercia	larea	65		55
	c		Residentia	area	55		45
Day Tir	me is from 6.00 AM to 10.00 PM						
Night T Silence these zo	Time is reckoned between 10.00 Zone is defined as an area up to	o 100 m around premis		ed categories by the competen			
Night T Silence these zo	Time is reckoned between 10.00 Zone is defined as an area up to ones.	a 100 m around premis lared as one of the fou	above mention		t Authority and the correspo	nding standard	

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IDDANIT					TC-112
IBRANT					
"Sample Number" VTL/AN/0			Report No.	: VTL/N/231	2230002/A
Name & Address of the Party	: M/s Adani Power		Format No	: 7.8 F-04	
		Bhandar, Post- Bade Bhandar, Dist Raigarh 496100 Chhattisoarh	Party Reference No	: NIL	
	Tensil- Pussore I	Dist Raigam 496100 Chnattisgam	Report Date	: 29/12/2023	3
			Receipt Date	: 23/12/2023	3
Sample Description	: Ambient Noise I	evel Monitoring	Sampling Duration	: 24 Hrs.	
Scope of Monitoring	: Regulatory Requ	irment	Sample Collected	: VTL Team	
Protocol Used	: IS 9989		Instrument		
Instrument Used	: SLM		Calibration Status	: Calibrated	
General Informatio	n:-				
Sampling Location		Chote Bhandar			
Instrument Code		: VTL/SLM/02			
Meteorological condi	tion during monitor				
Date of Monitoring	non danng monno.	e . ener eny	122		
Time of Monitoring		: 18/12/2023 To 19/12/20 : 06:00 TO 06:00 Hrs.	123		
Ambient Temperature	(°C)				
Surrounding Activity	A	: Min. 12°C Max 26°C			
Parameter Required		: Human, Vehicular & Pla	Int Act		
Coordinates		: As per work order			
		: NA			
S.No. Test Para	meters	Protocol	-	Test Resu	It dB(A)
1. N			Day	Time	Night Time
1 Leq		IS 9989 - 1981 RA:202	20 5	0.2	37.8
		ards as per Noise Pollution (Regulation	n and Control) Rules, 200	0	
Area Code	Cal	tegory of Area/Zone		Limits in dB(A)	and the second se
			Day Time		Night Time
B		Industrial area	75		70
C		Commercial area Residential area	65	-	55
P		Silence Zone	50		45
These zones.	dared as one of the four al	If Hospitals, Educational and Courts. Use of y bove mentioned categories by the competent ***End of Report***	t Authority and the correspon	nding standards st	
	Brish		RK Yadav Lab Incharge Authorized Signate	A A	Page No. 1/

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Sample Wumberter VTL/AN/0				Report No.	: VTL/N/2312230003/A
Name & Address of the Party	: M/s Adani Power Limit			Format No	: 7.8 F-04
	Village- Chhote Bhand Tehsil- Pussore Dist - I		rh 496100 Chhattisgarh	Party Reference No	: NIL
		, congo	an 450100 Onnatiogain	Report Date	: 29/12/2023
and the second second				Receipt Date	: 23/12/2023
Sample Description	: Ambient Noise Level		toring	Sampling Duration	: 24 Hrs.
Scope of Monitoring Protocol Used	: Regulatory Requirment	t -		Sample Collected	: VTL Team
Instrument Used	: IS 9989 : SLM			Instrument Calibration Status	: Calibrated
General Informatio	in:-				
Sampling Location		:	Near OHC		
Instrument Code			VTL/SLM/03		
Meteorological condi	tion during monitoring	:	Clear Sky		
Date of Monitoring		:	18/12/2023 To 19/12/20	23	
Time of Monitoring		:	06:00 TO 06:00 Hrs.		
Ambient Temperature	(°C)	:	Min 12°C Max. 26°C		
Surrounding Activity		12	Human, Vehicular & Pla	nt Act.	
Parameter Required			As per work order		
Coordinates			NA		

S.No	Test Parameters	Protocol	Test Re	sult dB(A)
			Day Time	Night Time
1	Leq	IS 9989 - 1981 RA:2020	60.4	46.0

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

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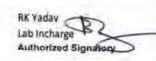
1. Day Time is from 6.00 AM to 10.00 PM.

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 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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IBRANT					
Sample Description	: M/s Adani Power Limit Village- Chhote Bhand	ar, P Raig	arh 496100 Chhattisgarh	Report No. Format No Party Reference No Report Date Receipt Date Sampling Duration	: VTL/N/2312230004/A ; 7.8 F-04 : NIL : 29/12/2023 : 23/12/2023 : 24 Hrs.
Scope of Monitoring Protocol Used Instrument Used	: Regulatory Requirment : IS 9989 : SLM	t		Sample Collected Instrument Calibration Status	: VTL Team ; Calibrated
General Information Sampling Location Instrument Code Meteorological condit Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Parameter Required	ion during monitoring		RO- MD VTL/SLM/04 Clear Sky 18/12/2023 To 19/12/20 06:00 TO 06:00 Hrs. Min. 12°C Max. 26°C Human, Vehicular & Pla As per work order		
Coordinates			ALC .		

S.No.	Test Parameters	Protocol	Test Re	sult dB(A)
			Day Time	Night Time
Leg		IS 9989 - 1981 RA-2020	54.3	42.0

Area Code	Category of Area/Zone	Limits	n dB(A) Leq*
10 million (1997)		Day Time	Night Time
A	Industrial area	75	70
8	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

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

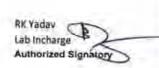
2. Night Time is reckoned between 10:00 PM to 6:00 AM. 3.Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in Nexe zones. Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply ***End of Report***

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*Persample Number: VTL/AN/0	5				
Name & Address of the Party	: M/s Adani Power Limit Village- Chhote Bhand	ar, P	ost- Bade Bhandar, arh 496100 Chhattisgarh	Report No. Format No Party Reference No Report Date	: VTL/N/2312230005/A : 7.8 F-04 : NIL : 29/12/2023
Sample Description Scope of Monitoring Protocol Used Instrument Used	: Ambient Noise Level : Regulatory Requirment : IS 9989 : SLM		itoring	Receipt Date Sampling Duration Sample Collected Instrument Calibration Status	: 23/12/2023 : 24 Hrs. : VTL Team : Calibrated
General Information Sampling Location Instrument Code Meteorological condit Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Parameter Regulred	tion during monitoring		Village - Kathli VTL/SLM/01 Clear Sky 19/12/2023 To 20/12/20 06:00 TO 06:00 Hrs. Min. 12*C Max. 25*C Human, Vehicular & Pla As per work order	23	
Coordinates			NA		

S.No.	Test Parameters	Protocol	Test Result dB(A)		
			Day Time	Night Time	
1	Leq	IS 9989 - 1981 RA:2020	53.0	40.6	

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000						
Area Code	Category of Area/Zone	Limits i	n dB(A) Leq*			
	71	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 5:00 AM. 3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle hom, Loudspeaker and bursting of crackers is banned in hese cones. 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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/ Exp	TISKANI				Percet No.	. 101 11021000004	
	Name & Address of the Party	: M/s Adani Power Limite Village- Chhote Bhanda	ar, P	Post- Bade Bhandar, arh 496100 Chhattisgarh	Report No. Format No Party Reference No Report Date	: VTL/N/2312230006/A : 7.8 F-04 : NIL : 29/12/2023	
	Sample Description Scope of Monitoring Protocol Used Instrument Used	: Ambient Noise Level I : Regulatory Requirment : IS 9989 : SLM		litoring	Receipt Date Sampling Duration Sample Collected Instrument Calibration Status	: 23/12/2023 : 24 Hrs. : VTL Team : Calibrated	
	Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Parameter Required	tion during monitoring		Amli Bhavan VTL/SLM/02 Clear Sky 19/12/2023 To 20/12/20 06:00 TO 06:00 Hrs. Min. 12*C Max. 25*C Human, Vehicular & Pla 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	39.6	

Area Code	Category of Area/Zone	Limits in dB(A) Leg*		
	- CC41 -	Day Time	Night Time	
A	Industrial area	75	70	
B	Commercial area	65	55	
c	Residential area	55	45	
D	Silence Zone	50	40	

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

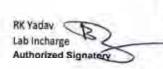
 Night Time is reckoned between 10.00 PM to 6.00 AM.
 Siglence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in Note: Mixed categories of areas be declared as one of the four above mentioned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

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A Sample Number *** VTL/AN/07				Report No.	: VTL/N/2312230007/A
Name & Address of the Party	: M/s Adani Power Limit Village- Chhote Bhand Tehsil- Pussore Dist F	ar, P	°ost- Bade Bhandar, arh 496100 Chhattisgarh	Format No Party Reference No Report Date	: 7.8 F-04
Sample Description Scope of Monitoring Protocol Used Instrument Used	: Ambient Noise Level : Regulatory Requirment : IS 9989 : SLM		litoring	Receipt Date Sampling Duration Sample Collected Instrument Calibration Status	: 23/12/2023 : 24 Hrs. : VTL Team : Calibrated
General Information	n:-	;	Truck Hopper		
Instrument Code Meteorological condit Date of Monitoring	ion during monitoring	: : .	VTL/SLM/03 Clear Sky 19/12/2023 To 20/12/20	23	
Time of Monitoring Ambient Temperature	(°C)	:	06:00 TO 06:00 Hrs. Min. 12°C Max 25°C		
Surrounding Activity Parameter Required Coordinates			Human, Vehicular & Pla As per work order NA	nt Act.	

S.No	Test Parameters	Protocol	Test Result dB(A)		
			Day Time	Night Time	
1	Leq	IS 9989 - 1981 RA:2020	62.7	47.6	

Area Code	Category of Area/Zone	Limits	n d8(A) Leq*
	- 52%)	Day Time	Night Time
A	Industrial area	75	70
8	Commercial area	65	55
c	Residential area	55	45
D	Silence Zone	50	40

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

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

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S.No.	Test Para	meters		Protocol		Tool Basult dB(A)
-	Coordinates		- :	NA		
	Parameter Required		1	As per work order		
	Surrounding Activity		1.7	Human, Vehicular & Pla	nl Act.	
	Ambient Temperature	(°C)	- 1	Min 12°C Max 25°C		
	Time of Monitoring		:	06:00 TO 06:00 Hrs.		
	Date of Monitoring		:	19/12/2023 To 20/12/20	23	
	Meteorological condi	tion during monitoring	: :	Clear Sky		
	Instrument Code		:	VTL/SLM/04		
	Sampling Location		:	Hydrobin Area		
	General Informatio	n:-				
Instrum	ent Used	: SLM			Instrument Calibration Status	: Calibrated
Protoco	SALA TRANSPORTATION CONTRACTOR	: Regulatory Requirm : IS 9989	ent		Sample Collected	: VTL Team
	of Monitoring				Sampling Duration	: 24 Hrs.
Camela	Description		201		Report Date Receipt Date	: 29/12/2023 : 23/12/2023
		Village- Chhote Bha Tehsil- Pussore Dist		ost- Bade Bhandar, arh 496100 Chhattisgarh	Party Reference No	: NIL
Name 8	Address of the Party	: M/s Adani Power Lin	mited		Format No	: 7.8 F-04
	NUMBER VTL/AN/0	8			Report No.	: VTL/N/2312230008/A

Test Parameters	Protocol	Test Result dB(A)		
		Day Time	Night Time	
	IS 9989 - 1981 RA:2020	58.6	49.0	
	Test Palatioura		Day Time	

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

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

2. Night Time is reckoned between 10.00 PM to 5.00 AM. 3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones. Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply ***End of Report***

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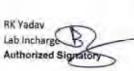


IB	RANT			ULR No				
	le Number : VTL/W/01			10.00		: TC112272300		
		M/s Adani Power Limited		Report		: VTL/W/23122	30001/A	
		Village Obbets Devide D			NO eference No	: 7.8 F-01		
		Tehsil- Pussore Dist Raigarh 496100	Tehsil- Pussore Dist Raigarh 496100 Chhattisoarh			: 29/12/2023		
				Report Date Period of Analysis		: 23/12/2023-29	1/12/2022	
Samp	le Description	Water Sample	Receipt Date			: 23/12/2023	1212023	
Samp	ling Location	mli Bhavan		Samplin		: 19/12/2023		
Samp	le Collected By	VTL Team	s		ng Type	: Grab		
Prese	Preservation : Suitable Preservation			Sample Quantity				
Metho	d of sampling	IS :3025		Coordin	ates	: NA		
S.No.	Test Parameters	Test Method	Resu	Its	Units	IS:105	00-2012	
						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 CaCO3) IS: 3025 (P-21): 2009, RA 2019	198.00		mg/i	200	600	
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	48.15		mg/i	75	200	
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	170.21		mg/l	200	600	
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	114.00		mg/l	250	1000	
7	Magnesium (as Mg)	IS: 3025 (P-46). 1994, RA 2019	18.92		mg/l	30	100	
8	Total Dissolved Solids	IS :3025 (P-16). 1984. RA 2017	462.0	0	mg/l	500	2000	
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	31.13	-	mg/l	200	400	
10	Fluoride (as F)	APHA 23rd Edition .4500FD :2017	0.49	1	mg/l	1.0	1.5	
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	22.00		mg/i	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("LOG	1-0.03)	mg/l	0.03	0.2	
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	"BLQ(""LO	Q-0.2)	mg/l	0.5	1.0	
15	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	0.36		mg/l	5.0	15.0	
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOC	2-0.02)	mg/l	0.05	1.5	











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Sampl	RANT		ULR No Report		* TC1122723000000508F : VTL/W/2312230001/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 mi sample	-	
23	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/t	0.5	No Relaxation	
24	Sulphide	IS 3025 (P-29) 1985 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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Samp	le Number : VTL/W/01								
Sample Description Sampling Location Sample Collected By Preservation		the Party : M/s Adani Power Limited Village- Chhote Bhandar, Post- Bade Bhandar, Tehsil- Pussore Dist Raigarh 496100 Chhattisgar : Water Sample : Amli Bhavan		Bhandar, Chhattisgarh	Report No. Format No dar, Party Reference No attisgarh Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity		: 29/12/2023 : 23/12/2023-29/12/2023 : 23/12/2023 : 19/12/2023 : Grab		
	d of sampling	: IS :3025			Coordinates		: 2 Ltr. : NA		
S.No.	Test Parameters	Tes	t Method	Resul	lts	Units .	IS:105 Acceptable Limit	00-2012 Permissible Limit	
1	Colour	IS : 3025:(P-	4)1983. :RA 2017	*BLQ(**LO	(**LOQ-5.0) Hazen		5	15	
2	Odour	IS : 3025	(P-5) : RA 2018	Agreea	ble	-	Agreeable	Agreeable	
3	Taste	IS :3025 (P-	8): 1984 RA 2017	Agreeal	bla	1.0	Agreeable	Agreeable	
4	Cyanide (as CN)		23rd Edition 00D,2017	"BLQ("LO	Q-5,0)	mg/l	0.05	No Relaxation	
5	Mineral Oil	IS 3025	(P-39) 1989	BLQ("LOO	2-0.05)	mg/l	0.5	No Relaxation	
8	Anionio Detergents (as Mi		Edition 5540C 2017	*BLQ(**LOQ-0.05)		mg/l	0.2	1.0	
7	Barium as Ba		d Edition,3111B 2017	*BLQ(**LOC	2-0.02)	mg/l	0,7	No relaxation	

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

End of Report









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Lab Incharge	
Authorized Signatory	
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V Te Sample Description : W Sampling Location : Vi		: M/s Adani Power Limited Village- Chhote Bhandar, Post- Bade I Tehsil- Pussore Dist Raigarh 496100 : Water Sample : Village - Kathli	Bhandar, Chhattisgarh	Report Period Receipt Samplin	No. No eference No Date of Analysis Date ng Date	: TC11227230 : VTL/W/23122 : 7.8 F-01 : NIL : 29/12/2023 : 23/12/2023 : 23/12/2023 : 19/12/2023	230002/A
Prese	rvation	: VTL Team : Suitable Preservation : IS :3025			Quantity	: Grab : 2 Ltr.	
S.No				Coordin ts	Units	: NA IS:10500-2012	
						Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.63		-	6.5 to 8.5	No Relaxation
2	Turbidity	IS 3025: (P-10)1984, RA 2017	"BLQ("LO	Q-1.0)	NTU	1	9
3	Total Hardness (as CaCO	3) IS: 3025 (P-21): 2009, RA 2019	173.00		mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	52.00		mg/l	75	200
5	Total Alkalinity (as CaCO3) IS: 3025 (P-23): 1986, RA 2019	164.3	5	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	115.82	2	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46); 1994, RA 2019	10.51	1	mg/l	30	100
8	Total Dissolved Solids	15:3025 (P-18): 1984, RA 2017	443.00	1	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	34.55		mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition 4500FD 2017	0.50	1	mg/i	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	22.00		mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.21		mg/l	1.0	No Relaxation
13	Aluminium (as AI)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ	-0.03.)	mg/i	0.03	0.2
14	Boron (as B)	APHA 23rd Edition,	"BLQ("LOO	2-0.2)		, ⁷⁷ 0.5	1.0
15	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ	0.001)	mg/i	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(**LOO	-0.02)	mg/l	0.05	1.5











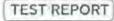
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Samp	RANI Rendimbergele VTLW/02		ULR No Report		: TC1122723000000509F ; VTLW/2312230002/A		
S.No	Test Parameters	t Parameters Test Method		Units	IS:10500-2012		
					Acceptable Limit	Permissibl Limit	
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 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 Relaxatio	
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 : 2018	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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Samp	sample wantow while VTL/W/02			Report No.		: VTL/W/2312230002/B			
Name	& Address of the Party		ani Power Limited		Format	No	: 7.8 F-01	30002/B	
		Tehsil-	 Chhote Bhandar, Post- Bade E Pussore Dist Raigarh 496100 	Chhatticaach	Party R	eference No	: NIL : 29/12/2023		
			r ussore blac. Nalgarit 450100	Crinattisgarn	Report	Date			
					Period	of Analysis	: 23/12/2023-29	/12/2023	
	le Description	: Water	Sample		Receipt	Date	: 23/12/2023		
Sample Collected By : V Preservation : S Method of sampling : I		: Village	Village - Kathli VTL Team Suitable Preservation			ng Date	: 19/12/2023 : Grab : 2 Ltr. : NA		
		: VTL Te				ng Type			
		: Suitabl				Quantity			
		: IS :302	IS :3025		Coordinates				
S.No.	Test Parameters		Test Parameters Test Method Result		lts	Units	IS:10500-2012		
							Acceptable Limit	Permissible Limit	
1	Colour	1	S : 3025:(P-4)1983, :RA 2017	*BLQ(**LO	Q-5.0)	Hazen	5	15	
2	Odour		IS 3025 (P-5) RA 2018	Agreea	ble	-	Agreeable	Agreeable	
3	Taste		IS :3025 (P-8); 1984 RA 2017	Agreea	ble	-	Agreeable	Agreeable	
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	"BLQ(""LO	Q-5.0)	mg/l	0.05	No Relaxation	
5	Mineral Oil		IS 3025 (P-39) 1989	*BLQ(**LOC	2-0.05)	mg/l	0.5	No Relaxation	
6	Antonic Detergents (as M	BAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOC	2-0.05)	-mg/l	0.2	1.0	
7	Barium as Ba		APHA 23rd Edilion,3111B 2017	*BLQ(**LOC	2-0.02)	mg/I	0.7	No relaxation	

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

End of Report









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Lab Incharge	
Authorized Signatory	
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	e Number : VTL/W/03				Report N	lo.	: VTL/W/231223	30003/B	
Name	& Address of the Party	: M/s /	Adani Power Limited		Format	No	- 7.8 F-01		
		Villag	ge- Chhote Bhandar, Post- Bade B	handar.	Party Re	ference No	: NIL		
		Tehs	il- Pussore Dist Raigarh 496100 (Chhattisgarh	Report 0	Date	: 29/12/2023		
					Period o	f Analysis	: 23/12/2023-29	/12/2023	
Sample	e Description	: Wate	Water Sample			Date	: 23/12/2023		
Sample Collected By : VTL		: Chot	/TL Team		Samplin	g Date	: 19/12/2023		
		: VTL			Sampling Type Sample Quantity		: Grab : 2 Ltr.		
		: Suita							
Method of sampling : IS		: IS :3	025			ates	:NA		
S.No.	Test Parameters		Test Parameters Test Method Result		lts	Units	IS:10500-2012		
							Acceptable Limit	Permissible Limit	
1	Colour		IS: 3025:(P-4)1983, :RA 2017	*BLQ(**LC	Q-5.0)	Hazen	5	15	
2	Odour		IS 3025 (P-5) : RA 2018	Agreea	ble	-	Agreeable	Agreeable	
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agreea	ble	1.0	Agreeable	Agreeable	
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**LO	Q-5.0)	mg/l	0.05	No Relaxation	
5	Mineral Qil		IS 3025 (P-39) 1989	"BLQ("LO	Q-0.05)	mg/l	0.5	No Relaxation	
6	Anionic Detergents (as M	IBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)		mg/l	0.2	1:0	
7	Barium as Ba		APHA_23rd Edition,3111B 2017	"BLQ(""LO	Q-0.02)	mg/l	0.7	No relaxation	

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

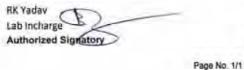
End of Report











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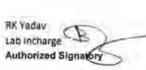


pSamp	& Address of the Party			ULR No Report	100	: TC11227230 : VTL/W/23122		
realine	a Address of the Party	: M/s Adani Power Limited Village- Chhote Bhandar, Post- Bade Bhandar, Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh		Format No Party Reference No Report Date		: 7.8 F-01 : NIL : 29/12/2023		
Samp Samp Prese	ling Location le Collected By rvation	: Water Sample : Bade Bhandar : VTL Team : Suitable Preservation : IS :3025		Receipt Samplin Samplin	ng Date ng Type Quantity	: 23/12/2023-24 : 23/12/2023 : 19/12/2023 : Grab : 2 Ltr. : NA	9/12/2023	
S.No. Test Parameters		Test Method	Resul	ts	Units	IS:10500-2012		
						Limit	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)1984, RA 2017	"BLQ(""LOQ-1.0)		NTU	- F.	5	
3	Total Hardness (as CaCO)	3) IS. 3025 (P-21): 2009, RA 2019	217.00		mg/l	200	600	
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	62.10		mg/l	75	200	
5	Total Alkalinity (as CaCO3) IS: 3025 (P-23): 1965, RA 2019	160.72		mg/l	200	600	
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	153.00		mg/l	250	1000	
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	15.08		mg/(30	100	
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	560.00)	mg/l	500	2000	
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	38.06		mg/l	200	400	
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.51	1	mg/l	1,0	1,5	
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	23.74	1	mg/l	45.0	No Relaxation	
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.25		mg/i	1.0	No Relaxation	
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	BLQ("LOQ	-0.03)	mg/l	0.03	0.2	
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOO	2-0.2)	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	0.42		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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ience th	e unimoginable" e Number : VTL/W/04		ULR No Report		: TC1122723000000511F : VTL/W/2312230004/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	JS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 mi 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) :1985 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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sience the	the unimggingble" ple Number : VTL/W/04					lo.	: VTL/W/2312230004/B		
Name	& Address of the Party	: M/s /	Adani Power Limited		Format I	No	: 7.8 F-01 : NIL		
		Villag	e- Chhote Bhandar, Post- Bade Bl	handar.	Party Re	ference No			
		Tehs	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh			Date	: 29/12/2023		
					Period o	f Analysis	: 23/12/2023-29	/12/2023	
Sampl	e Description	: Wate	Water Sample			Date	: 23/12/2023		
Sample Collected By : V Preservation : S		: Bade	Bade Bhandar /TL Team			g Date	: 19/12/2023		
		: VTL				g Type	: Grab : 2 Ltr. : NA		
		: Suita	Suitable Preservation IS :3025		Sample Quantity Coordinates				
		: 15 :3							
S.No.	Test Parameters		cters Test Method Resu		lts	Units	IS:10500-2012		
							Acceptable Limit	Permissible Limit	
1	Colour		IS: 3025:(P-4)1983, :RA 2017	*BLQ(**LC	Q-5.0)	Hazen	5	.15	
2	Odour		IS 3025 (P-5) : RA 2018	Agreea	ble		Agreeable	Agreeable	
3	Taste		IS 3025 (P-8): 1984 RA 2017	Agrees	ble	1.00	Agreeable	Agreeable	
4	Cyanida (as CN)		APHA 23rd Edition 4500D,2017	*BLQ(**LC	00-5.0)	mg/l	0,05	No Relaxation	
5	Mineral Oil		IS 3025 (P-39) 1989	*BLQ(**LO	Q-0.05)	mg/l	0.5	No Relaxation	
6	Anionic Detergents (as M	(BA5)	APRA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)		mg/l	02	1.0	
7	Banum as Ba		APHA 23rd Edition,3111B 2017	"BLQ(""LO	Q-0.02)	mg/l	0.7	No relaxation	

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

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1P	RANT						
ID.	Mamber the VTL/W/05			ULR N	0.	: TC11227230	00000512F
		M/s Adapt Dense Line is		Report	No.	: VTL/W/23122	230005/A
	and a second	M/s Adani Power Limited Village- Chhote Bhandar, Post- Bade I	Dharada	Format		: 7.8 F-01	
		Tehsil- Pussore Dist Raigarh 496100	Bhandar, Chhattisoarh		eference No	: NIL	
		·		Report	Date	: 29/12/2023	
Samp	le Description	Water Sample			of Analysis	: 23/12/2023-2	9/12/2023
Samp	line Leasting	Tracle Hopper		Receip		: 23/12/2023	
Samp		VTL Team			ng Date ng Type	: 19/12/2023	
Prese	rvation	Suitable Preservation			Quantity	Grab	
Metho	od of sampling	IS :3025		Coordin	The summer sector	: NA	
S.No	. Test Parameters	Test Method	Resul		Units		00.0040
					onnes	IS:10500-2012	
						Acceptable	Permissible
						Limit	Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7,42			6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, PA 2017	*BLQ(**LOQ-1.0)		NTU	1	5
3	Total Hardness (as CaCO3) IS 3025 (P-21): 2009, RA 2019	74.00		mg/)	200	600
4	Calcium (as Ca)	IS, 3025 (P- 40); 1991 RA 2019	17.48		mg/i	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1985, RA 2019	49.22		mg/I	200	600
6	Chloride (as Cl)	IS: 3025 (P-32), 1985, RA 2019	21.00		mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-48): 1994, RA 2019	7.38		mg/i	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	167.00)	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24); 1986, RA 2022	10.87	1	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	*BLQ(**LO	2-0.2)	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	4.25		mg/l	45.0	No Relaxation
12	lron (as Fe)	APHA 23rd Edition , 3111B,2017	"BLQ("LOO	2-0.1)	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(""LOO	2-0.2)	mg/l	0.5	1.0
5	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)		mg/l	0.001	0.002
6	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	*BLQ(**LOC	2-0.2)	mg/l	5.0	15.0
7	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ	0.02)	mg/l	0.05	1.5











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Sample	e Unimagiliable* e Number : VTL/W/05		ULR No Report	18	: TC1122723000000512F : VTL/W/2312230005/A		
S.No.	Test Parameters	arameters Test Method		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 Shall not be detectable in any 100 ml sample		
22	E Coli	IS : 15185 : 2016	Absent	per 100 ml			
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, **LOO- Limit of Quantification

""End of Report""

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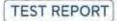
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Samp	le Number : VTL/W/05				Report	No	: VTL/W/23122	30005/B
Name	& Address of the Party	: M/s Adani I	Power Limited		Format		• 7.8 F-01	000000
		Village- Ch	hote Bhandar, Post- Bade B	Shandar.		eference No	: NIL	
		Tehsil- Pus	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh		Report		- Contractor and a	
					1.00	of Analysis	: 29/12/2023	
Samp	le Description	: Water Sam	nle		Receipt	a series and a series of	: 23/12/2023-29	3/12/2023
Sampling Location : Tra Sample Collected By : VT Preservation : Su			Tracle Hopper /TL Team Suitable Preservation		Samplin		: 23/12/2023	
		: VTL Team					: 19/12/2023	
					Sampling Type Sample Quantity		: Grab	
		: IS :3025					: 2 Ltr. : NA	
S.No.		CONTRACTOR OF THE			Coordinates			
0.110.	i cst Parameters		Test Method	Resul	Results		IS:10500-2012	
				-			Acceptable Limit	Permissible Limit
1	Colour	15 : 3	1025:(P-4)1983, :RA 2017	-BLQ("LO	Q-5.0)	Hazen	5	15
2	Odour	15	: 3025 (P-5) : RA 2018	Agreea	bler	1.1	Agreeable	Agreeable
3	Taste	15:3	8025 (P-8): 1984 RA 2017	Agreea	ble		Agreeable	Agreeable
4	Cyanide (as CN)		APHA 23rd Edition .4500D,2017	*BLQ(**LO	Q-5.0)	mg/l	0.05	No Relaxation
5	Mineral Oil		IS 3025 (P-39) 1989	*BLQ(**LOC	2-0.05)	mg/t	0.5	No Relaxation
6	Anionic Detergents (as M	BAS) AP	HA 23rd Edition , 5540C 2017	*8LQ(**LOQ-0.05)		mg/l	-0.2	1.0
7	Barium as Ba	AP	HA 23rd Edition,3111B 2017	"BLQ(""LOO	2-0.02)	mg/l	0.7	No relaxation

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

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Sampl	e Number : VTL/W/08				Report	No.	: VTL/W/23122	30008/B	
Name	& Address of the Party	: M/s	Adani Power Limited		Format	No	- 7.8 F-01		
		100 C	ge- Chhote Bhandar, Post- Bade B	and the second se	Party Reference No				
		Tehs	ehsil- Pussore Dist Raigarh 496100 Chhattisgarh		Report	Date	: 29/12/2023		
						of Analysis	: 23/12/2023-29	12/2023	
Sampling Location : Fiel Sample Collected By : VTL		: Wat	ield Hostel /TL Team		Receipt	Date	: 23/12/2023		
		: Field			Samplin	g Date	: 18/12/2023		
		: VTL			Sampling Type Sample Quantity		: Grab : 2 Ltr.		
		: Suita							
Method of sampling : IS		: 18 :3	025	Coordinates		: NA			
S.No.	Test Parameters		Test Method	Resu	lts Units		IS:10500-2012		
			-				Acceptable Limit	Permissible Limit	
1	Colour		IS 3025 (P-4) 1983, RA 2017	"BLQ(""LO	Q-5.0)	Hazori	5	15	
2	Odour		IS : 3025 (P-5) : RA 2018	Agreea	ble	-	Agreeable	Agreeable	
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agreea	bie	-	Agreeable	Agreeable	
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	"BLQ(**LO	Q-5,0)	mg/i	0.05	No Relaxation	
5	Mineral Oil		IS 3025 (P-39) 1989	*BLQ(**LO	0-0.05)	mg/l	0,5	No Relaxation	
6	Anionic Detergents (as M	BAS)	APHA 23rd Edilion , 5540C 2017	"BLQ(""LOQ-0.05) n		mg/l	0.2	1.0	
7	Barium as Ba		APHA 23rd Edition,3111B 2017	*BLQ(**LO	Q-0.02)	mg/l	0.7	No relaxation	

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

End of Report

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Sampl Name Sampl Sampl Sampl Preser	e Description ing Location e Collected By vation	: M/s Adani Power Limited Village- Chhote Bhandar, Post- Bade Bhandar, Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh : Water Sample : Piezometer -3 : VTL Team : Suitable Preservation : IS :3025		ULR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates		<pre>: TC1122723000000518F : VTLW/2312230011/A : 7.8 F-01 : NIL : 29/12/2023 : 23/12/2023-29/12/2023 : 23/12/2023 : 19/12/2023 : 19/12/2023 : Grab : 2 Ltr. : NA</pre>		
S.No.	Test Parameters	Test Method	Resul	ts	Units	IS:105	00-2012 Permissible	
		The second se				Limit	Limit	
1	pH (at 25°C)	IS: 3025 (P-11) 2022	7,68			6.5 to 8.5	No Relaxation	
2	Turbidity	15 3025 (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)		NTU	1	5	
3	Total Hardness (as CaCO3) IS: 3025 (P-21): 2009, RA 2019	242.00		mg/l	200	600	
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	66.40		mg/i	75	200	
5	Total Alkalinity (as CaCO3	IS: 3025 (P-23): 1986, RA 2019	173.00		mg/l	200	600	
6	Chloride (as CI)	IS: 3025 (P-32): 1988, RA 2019	144.1	5	mg/l	250	1000	
7	Magnesium (as Mg)	IS: 3025 (P-46); 1994, RA 2019	18.54	k - 1	mg/l	30	100	
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	571.0	0	mg/l	500	2000	
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	42.11		mg/i	200	400	
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.47	r	mg/l	1.0	1.5	
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	27.10	b - 1	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(""LOO	-0.03)	mg/l	0.03	0.2	
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	"BLQ("LO	2-0.2)	/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	0.40		mg/l	5.0	15.0	
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOG	-0.02)	mg/l	0.05	1.5	











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rience th	e unimaginable e Number : VTL/W/11		ULR No Report		: TC1122723000000518F : VTL/W/2312230011/A		
S.No.	Test Parameters	t Parameters Test Method		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 ; 2018	Absent	per 100 m)	Shall not be detectable in any 100 mi 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

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Sampl	e Number : VTL/W/11				Report	No.	: VTL/W/23122	30011/B	
Name	& Address of the Party	: M/s	Adani Power Limited		Format No Party Reference No		+ 7.8 F-01		
			ge- Chhote Bhandar, Post- Bade B				+ strength		
		Tehs	il- Pussore Dist Raigarh 496100 Chhattisgarh		Report	Date	: 29/12/2023		
					Period o	of Analysis	: 23/12/2023-29	9/12/2023	
Sampl	e Description	: Wat	Vater Sample		Receipt	Date	; 23/12/2023		
Sample Collected By : \ Preservation : S		: Piez	Piezometer -3 Sampling Dat VTL Team Sampling Typ Suitable Preservation Sample Quan		Samplin	ng Date	: 19/12/2023		
		: VTL			Sampling Type		≑ Grab ≑ 2 Ltr.		
		: Suita			Quantity				
Method of sampling		: IS :3	025	Coordinates		ates	: NA		
S.No.	Test Parameters		Test Method		Its	Units	IS:10500-2012		
							Acceptable Limit	Permissible Limit	
1	Colour		IS: 3025:(P-4)1983, IRA 2017	"BLQ(""LO	Q-5.0)	Hazen	5	15	
2	Odour		IS : 3025 (P-5) : RA 2018	Agreea	ble	-	Agreeable	Agreeable	
3	Taste		IS :3025 (P-8): 1984 RA 2017	Agreea	ble	-	Agreeable	Agreeable	
4	Cyanide (as CN)		APHA 23rd Edition ,4500D,2017	*BLQ(**LO	Q-5.0)	mg/l	0.05	No Relaxation	
5	Mineral Oil		IS 3025 (P-39) 1989	"BLQ(""LOO	2-0.05)	mg/l	0.5	No Relaxation	
6	Anionic Detergents (as M	BAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)		mg/l	0.2	1.0	
7	Barium as Ba		APHA 23rd Edition,3111B 2017	*BLQ(**LOC	2-0.02)	mg/l	0.7	No relaxation	

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

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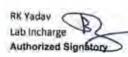


	he valinaginable"			ULR No	100	: TC112272300	
2.010.000	e Number: VTL/W/12				: VTL/W/2312230012/A		
Name	& Address of the Party :	M/s Adani Power Limited		Format	No	: 7.8 F-01	
		Village- Chhote Bhandar, Post- Bade E Tehsil- Pussore Dist Raigarh 496100			: NIL		
		Tensil- Pussore Dist Raigam 496100	Chnattisgarn	Report	Date	: 29/12/2023	
				Period o	of Analysis	: 23/12/2023-29	0/12/2023
Samp	le Description ;		Receipt	Date	: 23/12/2023		
Samp	ling Location ;	Piezometer -4		Samplin	ng Date	: 19/12/2023	
Samp	le Collected By :	VTL Team		Samplin	ng Type	: Grab	
Prese	rvation :	Suitable Preservation		Sample	Quantity	: 2 Ltr.	
Metho	d of sampling :	IS :3025		Coordin	ates	: NA	
S.No.	Test Parameters	Test Method	Resul	ts	Units	IS:105	00-2012
						Acceptable Limit	Permissible Limit
1	oH (at 25°C)	IS : 3025 (P-11) : 2022	7.80			6.5 to 8.5	No Relaxation
2	Turbidity	IS 3025 (P-10)1984, RA 2017	"BLQ("LO	Q-1.0)	NTU	1	5
3	Total Hardness (as CaCO3	IS: 3025 (P-21): 2009, RA 2019	222.00		mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	62.17		mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23) 1986, RA 2019	160.00		mg/l	200	600
6	Chloride (as Ci)	IS: 3025 (P-32): 1988, RA 2019	136.1	B	mg/l	250	1000
7	Magnesium (as Mg)	15: 3025 (P-46): 1994, RA 2019	16.25		mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-15): 1984, RA 2017	556.4	Ó	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	38.27	6	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.46		mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	30.18	k.	mg/I	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(**LOC	-0.03)	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LO	0-0.2)	/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	0.38		mg/l	5.0	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOG	2-0.02)	mg/l	0.05	1.5











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rience th	e unimaginable" 9 Number : VTL/W/12		ULR No Report	1.1	+ TC1122723000000519F + VTL/W/2312230012/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 mi	Shall not be detectable in any 100 ml sample	-	
22	E.Coli	15 - 15185 : 2016	Absant	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/)	0.2	1.0	
26	Faecal Coliform	IS 1622 1981 RA 2019	Absent	MPN	÷		

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

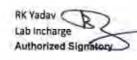
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Sampl	le Number : VTL/W/12			Report No.		: VTL/W/2312230012/B : 7.8 F-01		
Name	& Address of the Party	: M/s Adani Power Limited		Format No				
		Village- Chhote Bhandar, Post- Bade		Party Refer	ence No			
		Tehsil- Pussore Dist Raigarh 49610	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh			: 29/12/2023		
				Period of A	nalysis	: 23/12/2023-29/12/2023		
Sampl	le Description	: Water Sample	Water Sample		0	: 23/12/2023		
Sample Collected By : VT Preservation : Su		: Piezometer -4			ate	: 19/12/2023		
		: VTL Team			ype	: Grab		
				Sample Quantity Coordinates		: 2 Ltr. : NA		
						Acceptable Limit	Permissible Limit	
1	Colour	IS : 3025:(P-4)1983, IRA 2017	BLO("LO	Q-5.0)	Hazan	5	15	
2	Odour	IS : 3025 (P-5) : RA 2018	Agreea	ble	÷	Agreeable	Agreeable	
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreea	ble	- .	Agreeable	Agreeable	
4	Cyanide (as CN)	APHA 23rd Edition ,4500D,2017	-BLQ(**LO	Q-5.0)	mg/l	0.05	No Relaxation	
5	Mineral Oil	IS 3025 (P-39) 1989	BLQ("LO	Q-0.05)	mg/l	0.5	No Relaxation	
6	Anionic Detergents (as M	BAS) APHA 23rd Edition , 5540C 2017	*BLQ(**LO	Q-0.05)	mg/l	0.2	1.0	
7	Barlum as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LO	Q-0.02)	mg/l	0.7	No relaxation	

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

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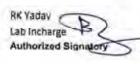


rience ti	ve unimaginable"			ULR No.	· TO112070	20000005005
Samp	le Number : VTL/SW/0	1		Report No.	: VTL/W/23	3000000520F
Name & Address of the Party : M/s Adani Pow		wer Limited	Format No	: 7.8 F-01	12230013/A	
		Village- Chho	te Bhandar, Post- Bade Bhandar,	Party Reference No		
		Tehsil- Pusso	re Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023	
				Period of Analysis		3-29/12/2023
Sample Description : SURFACE WA			ATER	Receipt Date	: 23/12/2023	
Samp	ling Location	: Mahanadi Up	Stream	Sampling Date	: 20/12/2023	
Samp	le Collected By	: VTL Team		Sampling Type	: Grab	
Prese	rvation	: Suitable Prese	ervation	Sample Quantity	: 2 Ltr.	
Metho	d of sampling	: IS :3025		Coordinates	: NA	
S.No.	Test Param	eters	Test Method	Resul	ts	Unit
1	pH value		IS: 3025 (P-11): 2022	7.33		-
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 2017	7 2.74	e.	NTU
3	Total Dissolved Solids (TI	DS)	IS : 3025 (P-16) : 1984, RA 2017	282.0	0	mg/l
4	Chloride (as CI)		15: 3025 (P-32) : 1988, RA 2019	54.18	1	mg/l
6	Sulphote as (SO4)		IS: 3025 (P-24) - 1986, Sec. RA 202	22 26.1	1	mg/T
6	Total Alkalinity (as CaCO	3)	IS: 3025 (P-23) : 1986, RA 2019	105.1	2	mg/l
7	Total Hardness (CaCO3)		IS: 3025 (P- 21) : 2009, RA 2019	168.1	168.17	
8	Calcium (as Ca)		IS : 3025 (P-40) : 1991 RA 2019	46.13	46.13	
9	Magnesium (as Mg)		IS: 3025 (P- 46): 1994, RA 2019	12.90)	mg/l
10	Fluoride (as F)		APHA 23rd Edition, 4500D, 2017	0.39	-	mg/i
11	Nitrate (as NO3)		IS: 3025 (P- 34) 1988 RA 2022	18.88		mg/l
12	Phenolic compounds		APHA 23rd Edition, 5530C, 2017	"BLQ(""LOC	-0.001)	mg/l
13	Fecal Coliform		IS:1622 :2009	Prese	nt	MPN
14	Total Coliform		IS 15185; 2016	Preser	nt	MPN
15	fron (as Fe)	14	APHA 23rd Edition,3111B, 2017	0.21	1	mg/l
16	Zinc (as Zn)	V	APHA 23rd Edition, 3030D,3113B 2017	, 0.35		mg/i
17	Copper (as Cu)		APHA 23rd edition, 3111B, 2017	*BLQ(**LOC	2-0.02)	mg/l
18	Manganese (as Mn)	- E I	APHA 23rd Edition, 3030D,3113B 2017	BLQ("LOC	2-0.05)	mg/i
19	Arsenic (as As)		APHA 23rd Edition, 3030D,3114C 2017	BLQ(**LOQ	-0.005)	mg/l
20	E Coli		IS :15185 : 2016	Preser	nt	P-A/100 M
21	Boron (as B)		APHA 23rd Edition, 4500D, 2017	"BLQ(""LO	Q-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				Report No.	: VTL/W/231	2230013/B
Tehsil- Pussore		er Limited	Format No	• 7.8 F-01		
			Village- Chhote Bhandar, Post- Bade Bhandar,		: NIL : 29/12/2023	
		Dist Raigarh 496100 Chhattisgarh	Report Date			
			Period of Analysis	: 23/12/2023	29/12/2023	
		ion : SURFACE WATER		Receipt Date	: 23/12/2023	
Sampling Location : Mahanadi Up S		tream	Sampling Date	: 20/12/2023		
Sample Collected By :		: VTL Team		Sampling Type	: Grab	
Preservation		: Suitable Preservation		Sample Quantity	: 2 Ltr.	
Metho	od of sampling	: IS :3025		Coordinates	: NA	
S.No.	Test Param	eters	Test Method	Resu	lts	Unit
1	Colour		IS: 3025 (P-4): 2021	*BLQ(**LO	Q-5.0)	Hazen
2	Odour		IS: 3025 (P-5): 2018	Agreea	ble	200
3	Taste		IS : 3025 (P-8) : 1984 RA 2017	Agreea	ble	
4	Residual Free Chlorine (R	(FC)	IS : 3025 (P-25) :2021	BLQ("LO	Q-0,2)	mg/l
5	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017	7 *BLQ(**LOQ-5.0)		mg/i
6	Aluminium (as Al)		IS 3025 : (P-55) 2003, RA 2019	19 *BLQ(**LOQ-0.03)		mg/l
7	Ammonia (as NH3)		IS : 3025 (P-34) 1988, Sec.4 RA 20	19 "BLQ(""LO	Q-0.3)	mg/l
8	Anionic Detergents (MBA	S)	APHA 23rd ed., 2017, 5530C	"BLQ(""LO	Q 0.05)	mg/l
-					2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	

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

End of Report







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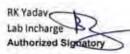


rience (he unimaginal				ULR No.	= TC11227	23000000521F
Sample Number				Report No.	: VTLW/23	312230014/A
Constraint on the stand of the stand of the stand of the stand of the		: Ws Adani P	All al contracta	Format No	: 7.8 F-01	
		Village- Chh Tabell, Puse	ote Bhandar, Post- Bade Bhandar, ore Dist Raigarh 496100 Chhattisgarh	Party Reference No	; NIL	
		renoir-russ	ore bist. Raigani 450100 Ginatusgam	Report Date	: 29/12/202	3
			Period of Analysis	: 23/12/202	3-29/12/2023	
Sample Descript Sampling Location		SURFACE W		Receipt Date	: 23/12/202	243
Sample Collected		: Mahanadi Do	own Stream	Sampling Date Sampling Type	: 20/12/202	3
Preservation	a by	: Suitable Pre	seniation	Sample Quantity	Grab	
Method of sampl	ing	: IS :3025	servation	Coordinates	: NA	
S.No.	Test Param	112-010-241-015-1	Test Method	Resu		Unit
1 pH value			IS: 3025 (P-11): 2022	7.4		-
2 Turbidity			IS : 3025 (P- 10) : 1984, RA 2017			NTU
3 Total Disso	lved Solids (T	OS)	IS : 3025 (P-16) : 1984, RA 2017			mg/l
4 Chloride (a	s CI)		IS: 3025 (P-32) : 1988, RA 2019			mg/l
5 Sulphate as	s (SO4)		IS: 3025 (P- 24) : 1986, Sec.RA 202		8	mg/l
6 Total Alkali	nity (as CaCO	3)	IS: 3025 (P-23) : 1966, RA 2019	117.	117.00	
7 Total Hardr	ness (CaCO3)		IS: 3025 (P- 21) : 2009, RA 2019	136.0	136.00	
8 Calcium (a	s Ca)		IS : 3025 (P-40) : 1991 RA 2019	34.1	34,16	
9 Magnesium	n (as Mg)		IS: 3025 (P-46): 1994, RA 2019	12.3	3	mg/l
10 Fluoride (a	is F)		APHA 23rd Edition, 4500D, 2017	0.47	7	mg/l
11 Nitrate (as	NO3)		IS: 3025 (P- 34) : 1988 RA 2022	22,1	6	mg/l
12 Phenolic co	mpounds		APHA 23rd Edition, 5530C, 2017	*BLQ(**LO	Q-0.001)	mg/l
13 Fecal Colife	מהכ		15:1622 :2009	Prese	ent	MPN
14 Total Colifo	m		IS 15185; 2016	Prese	ent	MPN
15 Iron (as Fe)	Y	1.1	APHA 23rd Edition,3111B, 2017	1	3	mg/l
16 Zinc (as Z	n)		APHA 23rd Edition, 3030D,3113B 2017	0.32	2	mg/l
17 Copper (as	Cu)		APHA 23rd edition, 3111B, 2017	*BLQ(**LO	Q-0.02)	mg/l
18 Manganese	(as Mn)		APHA 23rd Edition, 3030D,3113B 2017	BLQ(**LO	*BLQ(**LQQ-0,05)	
19 Arsenic (as	s As)		APHA 23rd Edition, 3030D,3114C 2017	BLQ("LOC	2-0.005)	mg/l
20 E Coli			IS:15185:2016	Prese	int	P-A/100 M
21 Boron (as B	· · · · · · · · · · · · · · · · · · ·		APHA 23rd Edition, 4500D, 2017	*BLQ(**LC	Q+0.2)	mg/l
22 Selenium (a	as Se)		APHA 23rd Edition,3114C, 2017	*BLQ(**LOC	2-0.005)	mg/l











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Samp	le Number : VTL/SW/0	2		Report No.	: VTL/W/231	2230014/B
Name & Address of the Party ;		: M/s Adani Pow	er Limited	Format No	- 7.8 F-01	
			Village- Chhote Bhandar, Post- Bade Bhandar,		: NIL	
		Tehsil- Pussore	e Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023	
				Period of Analysis	: 23/12/2023	-29/12/2023
Sample Description : SURFACE V		: SURFACE WA	TER	Receipt Date	: 23/12/2023	
Samp	ling Location	: Mahanadi Dow	n Stream	Sampling Date	: 20/12/2023	
Samp	le Collected By	: VTL Team		Sampling Type	: Grab	
Preservation		Suitable Preservation Samp		Sample Quantity	: 2 Ltr.	
Metho	od of sampling	: IS :3025		Coordinates	: NA	
S.No.	Test Parameters		Test Method	Resul	ts	Unit
1	Colour		IS: 3025 (P-4): 2021	*BLQ(**LO	Q-5.0)	Hazen
2	Odour		IS: 3025 (P-5): 2018	Agreea	ble	
3	Taste		IS : 3025 (P-8) : 1984 RA 2017	Agreea	ble	-
4	Residual Free Chlorine (R	FC)	IS : 3025 (P-26) :2021	"BLQ(""LO	Q-0.2)	mg/l
5	Cyanide (as CN)		APHA 23rd Edition, 4500D, 2017	"BLQ("LO	*BLQ(**LOQ-5.0)	
6	Aluminium (as Al)		IS : 3025 ; (P-55) 2003, RA 2019	BLQ("LOO	2-0.03)	mg/l
7	Ammonia (as NH3)		IS : 3025 (P-34) 1988, Sec.4 RA 20	19 "BLQ("LO	Q-0.3)	mg/l
8	Anionic Detergents (MBAS)		APHA 23rd ed., 2017, 5530C	*BLQ(**LOC		mg/l

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

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penence the	e unimaginable"			1000	1.32.00	
	Number : VTL/SW/0	2		ULR No.		23000000522F
10 million (1997)	Address of the Party	3 ; M/s Adani Po	war Limited	Report No.		312230015/A
Hanne o	Address of the Party		te Bhandar, Post- Bade Bhandar,	Format No	: 7.8 F-01	
		Tehsil- Pusso	re Dist Raigarh 496100 Chhattisgarh	Party Reference No	COLUMN THE OWNER	
				Report Date	: 29/12/20	States and the second
Sample Description : SURFACE WA				Period of Analysis		23-29/12/2023
1.1.1	ng Location	: Mand River D		Receipt Date	: 23/12/202	
1. A.	Collected By	: VTL Team	own Stream	Sampling Date Sampling Type	: 20/12/202	23
Preserv	ation	: Suitable Presi	ervation	Sample Quantity	: Grab : 2 Ltr.	
Method	of sampling	: IS :3025		Coordinates	: NA	
S.No.	Test Parame	eters	Test Method	Resul	10.000	Unit
1 p	H value		IS: 3025 (P-11): 2022	7.63	122	Unic
2 T	urbidity		IS : 3025 (P- 10) : 1984, RA 2017			NTU
3 T	otal Dissolved Solids (TD	(2C	IS : 3025 (P-16) 1984, RA 2017			mg/l
4 C	hiondo (as Ci)		15. 3025 (P-32) : 1988, RA 2019			mg/l
5 5	ulphate as (SO4)		IS: 3025 (P- 24) . 1955, Sec. RA 202		_	mg/i
6 T	otal Alkalinity (as CaCO)	3)	IS: 3025 (P-23) : 1986, RA 2019			mg/l
	otal Hardness (CaCO3)		IS: 3025 (P- 21) : 2009, RA 2019	167.2	167.20	
8 C	alcium (as Ca)		IS : 3025 (P-40) : 1991 RA 2019	44.15	44.15	
	lagnesium (as Mg)		IS 3025 (P- 46) : 1994, RA 2019	13.86	13.86	
-	luoride (as F)		APHA 23rd Edition, 4500D, 2017	0.55		mg/l mg/l
_	itrate (as NO3)		IS: 3025 (P- 34) : 1988 RA 2022	26,11	26,11	
-	henolic compounds		APHA 23rd Edition, 5530C, 2017	"BLQ(""LOQ	"BLQ(**LOQ-0.001)	
	ecal Coliform		IS:1622 :2009	Presen	ų.	MPN
1.001.0	otal Coliform		IS 15185; 2016	Presen	n	MPN
	on (as Fe)		APHA 23rd Edition, 3111B, 2017	0.28		mg/l
	nc (as Zn)	V	APHA 23rd Edition, 3030D,3113B, 2017	0.37		mg/l
-	opper (as Cu)		APHA 23rd edition, 3111B, 2017	"BLQ(""LOQ	-0.02)	mg/l
18 Ma	anganese (65 Mn)		APHA 23rd Edition 3030D,3113B 2017	and the second se	"BLQ(""LOQ-0.05)	
9 An	senic (as As)		APHA 23rd Edition, 3030D,3114C, 2017	"BLQ("LOO-	0.005)	mg/l
10 E (Coll		IS :15185 : 2016	Present	1	P-A/100 ML
	ron (as B)		APHA 23rd Edition, 4500D, 2017	*BLQ(**LOG		mg/l
22 Se	lenium (as Se)		APHA 23rd Edition.3114C, 2017	"BLQ("LOQ-		mg/l











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Samp	le Number : VTL/SW/0	3		Report No.	: VTL/W/2312	2230015/B
Village- Chhot Tehsil- Pussor		: M/s Adani Pow	er Limited	Format No	: 7.8 F-01	
			Village- Chhote Bhandar, Post- Bade Bhandar. Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh		: NIL : 29/12/2023 : 23/12/2023-29/12/2023	
		Tehsil- Pusson				
			Period of Analysis			
Sample Description : SURFACE WA		TER	Receipt Date	: 23/12/2023		
Sampling Location : Mand River Do		wn Stream	Sampling Date	: 20/12/2023		
Sample Collected By : V		: VTL Team		Sampling Type	Grab	
Preservation		: Suitable Prese	Suitable Preservation		2 Ltr.	
Metho	od of sampling	: IS :3025		Coordinates	: NA	
S.No.	Test Param	eters	Test Method	Resul	ts	Unit
1	Colour		IS: 3025 (P-4): 2021	*BLQ(**LOQ-5.0)		Hazen
2	Odour		IS: 3025 (P-5): 2018	Agreea	ble	
3	Tasto		IS : 3025 (P-8) 1984 RA 2017	Agraea	ble	
4	Residual Free Chlorine (R	IFG)	IS: 3026 (P-26) 2021	"BLQ(""LO	Q-0.2)	mġ/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	2-2-54 Per 9 4047		mg/l
7	Ammonia (as NH3)		IS : 3025 (P-34) 1988, Sec.4 RA 20		A 40 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	mg/l
8	Ammonia (as NH3) Anionic Detergents (MBAS)		APHA 23rd ed., 2017, 5530C	"BLQ("LOO		ingri

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

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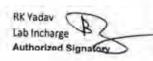


Samj Nam	the unimoginable ² ple Number : VTL/SW/0 e & Address of the Party ple Description	: M/s Adani Pov Village- Chhot	e Bhandar, Post- Bade Bhandar, e Dist Raigarh 496100 Chhattisgarh	ULR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date	: VTL/W/2 : 7.8 F-01 : NIL : 29/12/20	23 23-29/12/2023
Samj Presi	oling Location ole Collected By ervation od of sampling	: Mand River Up : VTL Team : Suitable Prese : IS :3025		Sampling Date Sampling Type Sample Quantity Coordinates	: 20/12/20 : Grab : 2 Ltr. : NA	23
S.No	Test Param	eters	Test Method	Resul	12.10.00.0	Unit
1	pH value		IS: 3025 (P-11): 2022	7.50	15	Onic
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 2017			NTU
3	Total Dissolved Solids (TD	DS)	IS : 3025 (P-16) : 1984, RA 2017			mg/l
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 2019	48.00		mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986, Sec. RA 202			mg/l
š	Total Alkalinity (as CaCO	3)	IS: 3025 (P- 23) : 1986, RA 2019	- P.14		mgn
	Total Hardness (CaCO3)		IS 3025 (P- 21) : 2009, RA 2019	124.0		mg/l
3	Calcium (as Ca)		IS 3025 (P-40) : 1991 RA 2019	33.71		Ngm
) 	Magnesium (as Mg)		IS : 3025 (P- 46) : 1994, RA 2019	9.70	-	mg/l
٥	Fluoride (as F)		APHA 23rd Edition, 4500D, 2017	0.33		mg/i
1	Nitrate (as NO3)	8	IS: 3025 (P- 34) : 1988 RA 2022	20.00		mg/i
2	Phenolic compounds		APHA 23rd Edition, 5530C, 2017	"BLQ(""LOQ	-0.001)	mg/l
3	Fecal Coliform		IS:1622 :2009	Presen		MPN
4	Total Coliform		IS 15185; 2016	Presen	-	MPN
5	Iron (as Fe)	1	APHA 23rd Edition,3111B, 2017	0.21		mp/l
6	Zinc (as Zn)	T/	APHA 23rd Edition, 3030D,3113B, 2017			mg/l
7	Copper (as Cu)	-	APHA 23rd edition, 3111B, 2017	"BLQ("LOQ	-0.02)	mg/l
8	Manganese (as Mn)	EXP	APHA 23rd Edition, 3030D,3113B, 2017	GIT BLQ(**LOQ	A 35 C	mg/l
9	Arsenic (as As)		APHA 23rd Edition, 3030D,3114C. 2017	*BLQ(**LOQ-	0.005)	mg/l
	E Coli		IS :15185 : 2016	Present	1	P-A/100 ML
	Boron (as B)		APHA 23rd Edition, 4500D, 2017	*BLQ(**LOO	1	mg/l
2	Selenium (as Se)		APHA 23rd Edition,3114C, 2017	*BLQ(**LOQ-		mg/l











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Sampl	e Number : \	TUSW/04	1		Report No.	: VTL/W/2312	230016/B
Name	& Address of th	e Party	: M/s Adani Powe	ar Limited	Format No	: 7.8 F-01	
	501774718V01.0	1202204		Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL	
			Tehsil- Pussore	Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023	
					Period of Analysis	: 23/12/2023-	29/12/2023
Samp	e Description		: SURFACE WAT	TER	Receipt Date	; 23/12/2023	
Samp	ing Location		: Mand River Up	Stream	Sampling Date	: 20/12/2023	
Samp	e Collected By		: VTL Team		Sampling Type	: Grab	
0.000	rvation		: Suitable Preser	vation	Sample Quantity	: 2 Ltr.	
Metho	d of sampling		: IS :3025		Coordinates	: NA	
S.No.	Tes	st Param	eters	Test Method	Resu	lts	Unit
1	Colour			IS : 3025 (P-4) : 2021	*BLQ(**LC	Q-5.0)	Hazen
2	Odour			IS: 3025 (P-5): 2018	Agreea	ble	+
3	Taste			IS : 3025 (P-8) 1984 RA 2017	Agreea	ible	-
4	Residual Free C	Chlorine (R	IFCI	IS: 3025 (P-26): 2021	*BLQ(**LC)Q-0.2)	mg/l
5	Cyanide (as Ci	N)		APHA 23rd Edition, 4500D, 2017	*BLQ(**LC	0-5.0)	mgA
6	Aluminium (as)	Ai)		IS: 3025 : (P-55) 2003. RA 2018	9 *BLQ(**LO	Q-0.03)	/lau
7	Ammonia (as	NH3)		IS: 3025 (P-34) 1988, Sec.4 RA 20	019 "BLQ("LC	Q-0.3)	mg/l
8	Anionic Deterge		51	APHA 23rd ed., 2017, 5530C	*BLQ(**LO	0.0.05)	mg/l

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

End of Report









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ence th	e unimaginable" le Number : VTL/WW/			ULR No.	: TC1122723	
		The second second second second second		Report No.	: VTL/WW/2	312230001/A
Name	& Address of the Party	: M/s Adani Pow	22470.02207.0	Format No	: 7.8 F-01	
			Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL	
		Tehsil- Pussore	Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023	
				Period of Analysis	: 23/12/2023	-29/12/2023
Samp	le Description	: Waste Water		Receipt Date	: 23/12/2023	
Samp	ling Location	: ETP Inlet		Sampling Date	: 18/12/2023	
Samp	le Collected By	: VTL Team		Sampling Type	: Grab	
Prese	rvation	: Suitable Presen	vation	Sample Quantity	: 2 Ltr.	
Metho	od of sampling	: IS :3025		Coordinates	:NA	
S.No.	Test Param	eters	Test Method	Resu	lt	Unit
1	pН		IS: 3025 (P-11): 2022	7.60		
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	47.00)	mg/l
3	Oil & Grease		IS:3025 (P-39): 2021	4.68	2	mg/i
4	Biochemical Oxygen Dem days @ 27*C)	and (BOD) (3	IS: 3025 (P-44): 1993, RA: 2019	24.18	ĭ.	mg/k
5	Chemical oxygen Demand	(COD)	IS: 3025 (P-58) : 2006 RA: 2017	169.2	0	mg/l

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

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Samp Name Samp Samp Samp	& Address of the Party le Description ling Location le Collected By inates	M/s Adani Village- Cl	t	ULR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Parameter Required	: VTL/WW/ : 7.8 F-01 : NIL : 29/12/202	3-29/12/2023 3 3
S.No.	Test Paramete	ers	Test Method	Result	Unit	Limits
1	рН		IS: 3025 (P-11): 2022	7.67	-	5.5 to 9.0
2	Total Suspended Solids (7	TSS)	IS: 3025 (P-17): 2022	23.98	mg/l	100
3	Oil & Grease		IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
4	Blochemical Oxygen Dem (3 days @ 27*C)	and (BOD)	IS: 3025 (P-44): 1993, RA: 2019	18.00	mg/l	30
		d (COD)	IS 3025 (P-58) 2006 RA: 2017	79.61		

Q-Below Limit OF Quantification, **LOQ- Limit Of Detection ***End of Report***

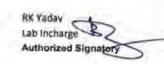
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Name Samp Samp	& Address of the Party : le Description : ling Location : le Collected By :	M/s Adani Power Limited Village- Chhote Bhandar, Post- Bade Bhandar, Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh Waste Water STP Outlet	ULR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Parameter Required		-29/12/2023
S.No.		Test Method	Result	Unit	Limits
1	pH	IS: 3025 (P-11): 2022	7.41		5.5 to 9.0
2	Total Suspended Solids (TSS	5) IS: 3025 (P-17): 2022	22.27	mg/l	100
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10
			10.00	maß	20
4	Biochemical Oxygen Demand (3 days @ 27°C)	I (BOD) IS: 3025 (P-44): 1993, RA: 2019	16.00	mg/l	30

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Samp	& Address of the Party	04 M/s Adani Power Limited Village- Chhote Bhandar, Post- Bade Bhar Tehsil- Pussore Dist Raigarh 496100 Cht :		: VTL/WW/ : 7.8 F-01 : NIL : 29/12/202	23000000503F 2312230004/A 23 23 23 23-29/12/2023
Sampling Location : Con Sample Collected By : VTI		: Waste Water : Cooling Tower Blow Down : VTL Team : NA	Receipt Date Sampling Date Parameter Required	: 23/12/2023 : 18/12/2023 : As per work order	
S.No.	Test Paramete	rs Test Method	Result	Unit	Limits
1	Chromium (as Cr)	APHA 23rd Edition 3113 B, 2	017 *BLQ(**LOQ-0.1)	mg/l	2
2	Zinc (as Zn)	APHA 23rd Edition-3030D, 31 2017	13 B, *BLQ(**LOQ-0.2)	mg/l	5
3	Residual Free Chlorine	IS: 3025 (P-26):2021	0.28	mg/l	1.0

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

End of Report













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	2.2	_	-			_	-	-	- 01	





Name Samp Samp Samp	Address of the Party ble Description bling Location ble Collected By	M/s Ada Village-	ow Down	ULR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Parameter Required	: VTL/WW/ : 7.8 F-01 : NIL : 29/12/202	3-29/12/2023 3 3
	linates	: NA				
S.No.	Test Paramete	ers	Test Method	Result	Unit	Limits
1	Chromium (as Cr)		APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	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	0.35	mg/l	1.0

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

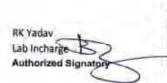
"End of Report"













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

Ground Water Level Monitoring

VTL Team

Report No.: Format No.: Party Reference No.: Report Date:

Receipt Date: Date of Monitoring VTL/WL/2312230001-03 7.8 F-01 NIL 29/12/2023 23/12/2023 19/12/2023

Sample Collected By Sample Description:

S.No.	Location	Depth (In meter)
1.	Piezometer Well No 02	1.28
2.	Piezometer Well No 03	1.82
3.	Piezometer Well No 04	3.26

LAB

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Lab Incharge RK Yadav (Authorized Signatory)

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3	perience the unimaginable"		ULR No.	: TC112272300000006F
	Sample Number : VTL/S0/01		Report No.	: VTL/S0/2312230001/A
		M/s Adani Power Limited	Format No	: 7.8 F-01
		Village- Chhote Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL
	Name 9 Address of the Deste	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023
	Name & Address of the Party		Period of Analysis	: 23/12/2023-29/12/2023
	Sample Description	: SOIL	Receipt Date	: 23/12/2023
	Sampling Location	: Amli Bhavan	Sampling Date	: 19/12/2023
	Sample Collected By	: VTL Team	Sampling Type	: Composite
	Parameter Required	I As per work order	Sample Quantity	72 Kg
	Method of sampling	: IS.2720	Packing Status	Tomp Sealed

-		Coordinates :					
S.No.	Parameters	Test Method	Results	Units			
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.66	1.0			
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.348	mS/cm			
3	Bulk density	USDA 1954 (Page-121), RA 2014	1.33	gm/c.c.			
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98). RA: 2010	95.0D	mg/kg			
5	Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	325.50	mg/kg			
6	Sodium (as Na)	USEPA:3050 B:1996	87.16	mg/kg			
7	Potassium (as K)	USEPA 3050 B: 1996	109.00	kg/hec.			
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.64	%			
9	Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	85.00	mg/kg			
10	Available Nitrogen (N)	IS::14684,1999 RA: 2019	204.14	kg/ha			
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022. STP-10	32.44	kg/na			
12	Zinc (as Zn)	USEPA 3050 B: 1996	16.00	mg/kg			
13	Manganese (as Mn)	USEPA 3050 B: 1996	124.70	mg/kg			
14	Total Lead (as Pb)	Ex 010 USEPA 3050 B. 1996	10003.20	mg/kg			
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	0.91	mg/kg			
16	Copper (as Cu)	USEPA 3050 B. 1995	12.30	mg/kg			

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

End of Report











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Sample Number : VTL/S0/01		Report No.	: VTL/S0/2312230001/B
	M/s Adani Power Limited	Format No	: 7.8 F-01
	Village- Chhote Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL
Name & Address of the Party	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023
Name & Address of the Party		Period of Analysis	: 23/12/2023-29/12/2023
Sample Description	: SOIL	Receipt Date	: 23/12/2023
Sampling Location	: Amli Bhavan	Sampling Date	: 19/12/2023
Sample Collected By	: VTL Team	Sampling Type	: Composite
Parameter Required	: As per work order	Sample Quantity	: 2 Kg.
Method of sampling	: IS :2720	Packing Status	: Temp. Sealed
		Coordinates	:

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Yellowish Red	•
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	36.14	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	1.83	mg/kg

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

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Sample Number	: VTL/S0/02	2		Report No.	: VTL/S0/231	2230002/A
		M/s Adani Power	Limited	Format No	: 7.8 F-01	
			Shandar, Post- Bade Bhandar,	Party Reference No	: NIL	
		Tehsil- Pussore I	Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023	
Name & Address	of the Party	:		Period of Analysis	: 23/12/2023-	29/12/2023
Sample Descrip	tion	: SOIL		Receipt Date	: 23/12/2023	
Sampling Locat	on	: Village - Kathli		Sampling Date	: 19/12/2023	
Sample Collecte	d By	: VTL Team		Sampling Type	: Composite	
Parameter Requ	ired	: As per work orde	r	Sample Quantity	: 2 Kg.	
Method of samp	ling	: IS :2720		Packing Status	: Temp. Seale	be
				Coordinates	:	
S.No.	Paramete	ers	Test Method	Resul	lts	Units
1 pH			IS : 2720 (P- 26): 1987, RA: 2021	7.60)	•
2 Electrical	Conductivity		IS 14767: 2000, RA:2021	0.346	6	mS/cm

1	PH	IS : 2720 (P- 26): 1987, RA: 2021	7.60	•
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.346	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.34	gm/c.c.
4	Chloride (as Cl)	USDA:1954 Method 13 (Page-98), RA. 2010	93.00	mg/kg
5	Calcium (as Ca)	Lab SOP No, VTL/STP/03; 2022, STP-06	319,20	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	85.00	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	107.00	kg/hec.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.62	%
9	Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	83.00	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	202.10	kg/hs
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	30.21	kg/ina
12	Zinc (as Zn)	USEPA 3050 B: 1996	14.00	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	122.06	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	3.15	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	0.86	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	12.16	mg/kg

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

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	SNE CONTRACTOR OF STREET	Coordinates	:
Method of sampling	: IS :2720	Packing Status	: Temp. Sealed
Parameter Required	: As per work order	Sample Quantity	; 2 Kg.
Sample Collected By	: VTL Team	Sampling Type	: Composite
Sampling Location	: Village - Kathli	Sampling Date	: 19/12/2023
Sample Description	; SOIL	Receipt Date	; 23/12/2023
Name & Address of the Party	:	Period of Analysis	: 23/12/2023-29/12/202
and a second second second	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023
	Village- Chhote Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL
	M/s Adani Power Limited	Format No	: 7.8 F-01
Sample Number : VTL/S0/0	2	Report No.	: VTL/S0/2312230002/E

S.No.	Parameters	Test Method	Results	Units
1	Colour	USDA:1954-Reaffirmed, 2010	Yellowish Red	•
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	36.10	%
3	Total Chromium (as Cr)	USEPA 3050 B:1996	1.80	mg/kg

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

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S.No. Paramet		Paramete	rs	Test Method	Resu	lts	Units
		-			Coordinates	:	
Method	d of samplin	g	: IS 2720		Packing Status	: Temp. Seale	d
Parame	eter Require	be	: As per work or	ler	Sample Quantity	: 2 Kg.	2
Sample	e Collected	Ву	: VTL Team		Sampling Type	: Composite	
Sampli	ing Location	1	: Bade Bhandar		Sampling Date	: 19/12/2023	
Sample	e Descriptio	n	: SOIL		Receipt Date	: 23/12/2023	
Name &	& Address o	f the Party	:		Period of Analysis	: 23/12/2023-2	9/12/2023
		193326595	Tehsil- Pussore	Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023	
				Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL	
10.00			M/s Adani Powe	er Limited	Format No	: 7.8 F-01	
Sample	Number :	VTL/S0/03			Report No.	: VTL/S0/2312	230003/A

S.No.	Parameters	lest Method	Results	Units.
	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.58	-
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0,340	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.30	gm/c.c.
4	Chloride (as CI)	USDA:1954 Method 13 (Page-98), RA: 2010	34.00	mg/kg
5	Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	322.05	mg/kg
5	Sodium (as Na)	USEPA:3050 8:1996	88.11	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	112.00	kg/hec.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.65	%
9	Magnesium (as Mg)	Lab SOP No. VTL/STP/03; 2022, STP-06	84.00	mg/kg
10	Available Nitrogen (N)	IS -14684,1999 RA: 2019	204 16	kg/ha
11	Available Phosphorus (as P)	Lab SOP No: VTL/STP/03: 2022. STP-10	32.00	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	16.07	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	124,00	mg/kg
14	Total Lead (as Pb)	VID 0 USEPA 3050 B: 1996	100.4.00	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	0.88	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	13.40	mg/kg

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

End of Report











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S.No. Parameters		rs	Test Method	Resul	ts	Units
C No				Coordinates	:	
Metho	d of sampling	: IS :2720		Packing Status	: Temp. Seale	d
	neter Required	: As per work order		Sample Quantity	: 2 Kg.	
- 16 A A A A	le Collected By	: VTL Team		Sampling Type	: Composite	
	ling Location	: Bade Bhandar		Sampling Date	: 19/12/2023	
	le Description	: SOIL		Receipt Date	: 23/12/2023	
	In Description			Period of Analysis	: 23/12/2023-2	9/12/2023
Name	& Address of the Party	:	Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023	
			handar, Post- Bade Bhandar,	Party Reference No	: NIL	
		M/s Adani Power	Limited	Format No	: 7.8 F-01	
oump	le Number : VTL/S0/03			Report No.	: VTL/S0/2312	230003/B

USDA:1954-Reaffirmed, 2010	Yellowish Red	
USDA:1954-Reaffirmed, 2010	38.00	%
USEPA 3050 8:1995	1.84	mg/kg
	1.84	1
	USEPA 3050 8:1995	USDA:1954-Reaffirmed, 2010 38.00

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		Coordinates		_
Method of sampling	: IS :2720	Packing Status	: Temp. Sealed	i
Parameter Required	: As per work order	Sample Quantity	; 2 Kg.	
Sample Collected By	: VTL Team	Sampling Type	: Composite	
Sampling Location	: Chote Bhandar	Sampling Date	: 19/12/2023	
Sample Description	SOIL	Receipt Date	: 23/12/2023	
Name & Address of the Party	1	Period of Analysis	: 23/12/2023-29	9/12/2023
	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 29/12/2023	
	Village- Chhote Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL	
	M/s Adani Power Limited	Format No	: 7.8 F-01	
Sample Number : VTL/S0/04		Report No.	: VTL/S0/23122	230004/A

S.No.	Parameters	Test Method	Results	Units
1	pH	IS : 2720 (P- 26): 1987, RA: 2021	7.56	
2	Electrical Conductivity	IS 14767; 2000, RA:2021	0.347	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1.28	gm/c.c.
4	Chieride (as Cl)	USDA:1954 Method 13 (Page-98), RA: 2010	36.00	mg/kg
5	Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022, STP-06	330.16	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	90.12	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	116.00	kg/hec.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020	0.68	96
9	Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	87.00	mg/kg
10	Available Nitrogen (N)	IS :14684,1999 RA: 2019	214.00	kg/ha
11	Available Phosphorus (as P)	Lab SOP No. VTL/STP/03: 2022, STP-10	34.51	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	17.88	mg/kg
13	Manganese (as Mn)	USEPA 3050 B: 1996	127.00	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	4.01	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B:1996	0.89	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	14.72	mg/kg

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

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S.No.	1	Parameter	s	Test Method	Resul	ts	Units
					Coordinates	:	
Method of	sampling		: IS :2720		Packing Status	: Temp. Seale	ed
Parameter			: As per work order		Sample Quantity	: 2 Kg.	
Sample Co			: VTL Team		Sampling Type	: Composite	
Sampling			: Chote Bhandar		Sampling Date	: 19/12/2023	
Sample De			: SOIL		Receipt Date	: 23/12/2023	
	1.1.1	352	32		Period of Analysis	: 23/12/2023-	29/12/2023
Name & A	ddress of t	he Party	:	naigain 490100 Crinattisgam	Report Date	: 29/12/2023	
				dar, Post- Bade Bhandar, Raigarh 496100 Chhattisgarh	Party Reference No	: NIL	
			M/s Adani Power Lim	525	Format No	: 7.8 F-01	
Sample Nu	mber :	VTL/S0/04			Report No.	: VTL/S0/231	2230004/B

	ratameters	Test Method	Results	Units	
1	Colour	USDA:1954-Reaffirmed, 2010	Yellowish Red		
2	Water holding capacity	USDA:1954-Reaffirmed, 2010	40.00	%	
3	Total Chromium (as Cr)	USEPA 3050 B:1996	1.68	mg/kg	

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

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M/s Adani Power Limited

: SOIL

: Village - Siha

: As per work order

: VTL Team

Village- Chhote Bhandar, Post- Bade Bhandar,

Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh



Name & Address of the Party :

Sample Description

Sampling Location

Sample Collected By

Parameter Required

Report No. : VTL/S0/2312230005/A Form

Report No.	, VILIGUIZGIZZGOUUGIA
Format No	: 7.8 F-01
Party Reference No	: NIL
Report Date	: 29/12/2023
Period of Analysis	: 23/12/2023-29/12/2023
Receipt Date	: 23/12/2023
Sampling Date	: 20/12/2023
Sampling Type	: Composite
Sample Quantity	: 2 Kg.

		Coord	inates :	
S.No.	Parameters	Test Method	Results	Units
1	pН	IS : 2720 (P- 26): 1987, RA: 2021	7.52	
2	Electrical Conductivity	IS 14767: 2000, RA:2021	0.347	mS/cm
3	Bulk density	USDA:1954 (Page-121), RA: 2014	1,34	gm/c.c.
4	Chloride (as CI)	USDA:1954 Method 13 (Page-98), RA. 2010	30.12	mg/kg
5	Calcium (as Ca)	Lab SOP No. VTL/STP/03: 2022. STP-06	315.00	mg/kg
6	Sodium (as Na)	USEPA:3050 B:1996	85.00	mg/kg
7	Potassium (as K)	USEPA 3050 B: 1996	99.61	kg/hec.
8	Organic Matter	IS 2720 (P-22) 1972, RA:2020		%
9	Magnesium (as Mg)	Lab SOP No. VTL/STP/03: 2022, STP-06	80,14	mg/kg
10	Available Nitrogen (N)	IS 14684,1999 RA: 2019	209.17	kg/ha
	Available Phosphorus (as P)	Lap SOP No. VTL/STP/03: 2022, STP-10	30.66	kg/ha
12	Zinc (as Zn)	USEPA 3050 B: 1996	17.00	mg/kg
13	Manganese (as Mn)	USEPA 3050 B; 1996	125.00	mg/kg
14	Total Lead (as Pb)	USEPA 3050 B: 1996	3,87	mg/kg
15	Total Cadmium (as Cd)	USEPA 3050 B 1996	0.85	mg/kg
16	Copper (as Cu)	USEPA 3050 B: 1996	14.60	mg/kg

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S.No.	Paramete	rs	Test Method	Result	ts	Units
la u				Coordinates	:	
Method of	fsampling	: IS :2720		Packing Status	: Temp. Seal	ed
	r Required	: As per work order		Sample Quantity	: 2 Kg.	
	ollected By	: VTL Team		Sampling Type	: Composite	
Sampling	1.00003 (5.893)	: Village - Siha		Sampling Date	: 20/12/2023	
	escription	: SOIL		Receipt Date	; 23/12/2023	
C	S. Latin.			Period of Analysis	: 23/12/2023-	29/12/2023
Name & A	ddress of the Party	1	nagam 450100 omattagam	Report Date	: 29/12/2023	
			dar, Post- Bade Bhandar, Raigarh 496100 Chhattisgarh	Party Reference No	: NIL	
		M/s Adani Power Limi		Format No	: 7.8 F-01	
Sample N	umber: VTL/S0/04			Report No.	: VTL/S0/231	2230005/B

USDA:1954-Reaffirmed, 2010	Yellowish Red		
	remonitali ridu		
USDA:1954-Reaffirmed, 2010	38.14	% mg/kg	
USEPA 3050 B:1996	1.78		
		USEPA 3050 B:1996 1.78	

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

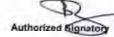
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Sam	ple Number : VTL/S0/0	5		Report No.	: VTL/S0/231;	2230006/4
		M/s Adani Pov	wer Limited	Format No	. 7.8 F-01	EE JOVOUN
			e Bhandar, Post- Bade Bhandar,	Party Reference No		
		Tehsil- Pusso	Tehsil- Pussore Dist Ralgarh 496100 Chhattisgarh		: 29/12/2023	
Nam	e & Address of the Party			Period of Analysis	: 23/12/2023-2	29/12/2023
Sam	ple Description	: SOIL		Receipt Date	: 23/12/2023	
Sampling Location : Bilaigarh		Sampling Date		: 20/12/2023		
Sam	ple Collected By	: VTL Team		Sampling Type	: Composite	
Parameter Required		: As per work or	per work order Sample Quantity		: 2 Kg.	
Meth	nod of sampling	: IS :2720		Packing Status	: Temp. Seale	be
				Coordinates	:	
S.No	p. Paramet	ers	Test Method	Results		Units
1	рН		IS : 2720 (P- 26): 1987, RA: 2021	7.65	7.65	
2	Electrical Conductivity		IS 14767: 2000, RA:2021	0.350	0.350	
3	Bulk density		USDA:1954 (Page-121), RA: 2014	1 1.26		gm/c.c.
4	Chloride (as Cl)		USDA:1954 Method 13 (Page-98), F 2010	ZA: 115.0	7	mg/kg
5	Calcium (as Ca)		Lab SOP No. VTL/STP/03: 2022, STP-06	336.70		mg/kg
6	Sodium (as Na)		USEPA:3050 B:1996	95.64	95.64 m	
7	Potassium (as K)		USEPA 3050 B; 1996	120.0	0	kg/hec.
8	Organic Matter		IS 2720 (P-22) 1972, RA:2020	0.72	0.72	

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

End of Report

Lab SOP No. VTL/STP/03: 2022,

STP-06

IS 14684,1999 RA: 2019

Lab SOP No. VTL/STP/03: 2022.

STP-10

USEPA 3050 B: 1996

USEPA 3050 B: 1996

USEPA 3050 B: 1996

USEPA 3050 B:1996

USEPA 3050 B: 1996



9

10

11

12

13

14

15

16

Magnesium (as Mg)

Available Nitrogen (N)

Zinc (as Zn)

Manganese (as Mn)

Total Lead (as Pb)

Copper (as Cu)

Total Cadmium (as Cd)

Available Phosphorus (as P)







93,00

223.06

36.00

18.17

130.00

4.08

0.93

15.62



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mg/kg

kg/ha

kg/ha

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

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S.No.	Parameter	rs	Test Method	Resul	ts	Units
C. N. J	-			Coordinates	:	
Method of sampling	ng	: IS :2720		Packing Status	: Temp. Seal	ed
Parameter Requir		: As per work order		Sample Quantity	: 2 Kg.	
		: VTL Team		Sampling Type	: Composite	
Sample Collected	10 C	: Bilaigarh		Sampling Date	: 20/12/2023	
Sampling Locatio		and the second second		Receipt Date	; 23/12/2023	
Sample Descriptio	n	: SOIL		Period of Analysis	: 23/12/2023	29/12/2023
Name & Address	of the Party	:	rangern hoo roo onnatusgarn	Report Date	: 29/12/2023	
			dar, Post- Bade Bhandar, Raigarh 496100 Chhattisgarh	Party Reference No	: NIL	
		M/s Adani Power Limi		Format No	: 7.8 F-01	
Sample Number :	VTL/S0/06			Report No.	: VTL/S0/231	2230006/B

USDA:1954-Reaffirmed, 2010	Yellowish Red		
USDA:1954-Reaffirmed, 2010	43.00	%	
USEPA 3050 B:1996	1.90	mg/kg	
	USDA:1954-Reaffirmed, 2010	USDA:1954-Reaffirmed, 2010 43.00	

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

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Aperien	te the unimaginable le Number : VTL/AA/05				Report No.		403230001/A
Name	& Address of the Party		Power Limited		Format No	: 7.8 F-02	2
				ost- Bade Bhandar,	Party Reference No	: NIL	
		Tehsil- Pu	ssore Dist Raiga	rh 496100 Chhattisgarh	Report Date	: 28/03/2	024
					Period of Analysis	: 23/03/2	024-28/03/2024
					Receipt Date	: 23/03/2	024
Samp	le Description	: AMBIENT	AIR QUALITY M	ONITORING			
General Information:- Sampling Location Sample Collected By			;	Village Kathli VTL Team			
	Sampling Equipment			RDS/FPS			
Instrument Code				VTL/RDS/FPS/03			
	Coordinates			21"43'25" & 83*16'26"			
	Meteorological condi	tion during m	nonitoring :	Clear Sky			
	Date of Monitoring			19/03/2024 To 20/03/20	324		
	Time of Monitoring			11:00 TO 11:00 H/s.			
	Amblent Temperature	e ("C)	1	Min. 17"C Max. 30"C			
	Surrounding Activity			Human, Vehicular & Ot	her Act		
	Scope of Monitoring			Regulatory Requirment			
	Method of Sampling		1	IS :5182			
	Sampling Duration		:	24 Hrs.			
	Parameter Required		:	As per work order			
S,No	Parameters	5	Tes	t Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM	410)	IS:5182 (P-	23)-2008, RA. 2017	66.7	µg/m*	100
2	Particulate Matter (as PM	M2.5)	IS:518	2 (P- 24)-2019	27.4	µg/m³	60
3	Nitrogen Dioxide (as NO	2)	IS:5182 (P-	6)-2006, RA.2018	18.01	µg/m³	80
4	Sulphur Dioxide (as SO2	2)	(5:5182 (P-	2)-2001, RA. 2018	10.1	µg/m ^a	80

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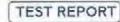
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Sample Number : VTL/AA/05	5	Report No.	; VTL/A/2403230001/B
Name & Address of the Party	: M/s Adani Power Limited	Format No	: 7.8 F-02
	Village- Chhote Bhandar, Post- Bade Bhandar,	Party Reference No	t NIL
	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024
		Period of Analysis	: 23/03/2024-28/03/2024
		Receipt Date	: 23/03/2024
Sample Description	: AMBIENT AIR QUALITY MONITORING		
General Information	n:- Village Kathli		

	Sample Collected By		:	VTL Team					
	Sampling Equipment used Instrument Code Coordinates			RDS/FPS					
				VTL/RDS/FPS/03					
				21*43'25" & 83*16'26"					
	Meteorological condition during monitoring Date of Monitoring		:	Clear Sky					
			:	19/03/2024 To 20/03/20	24				
	Time of Monitoring Ambient Temperature (°C)			11:00 TO 11:00 Hrs.					
				: Min. 17"C Max. 30"C					
	Surrounding Activity		1 Human, Vehicular & Other Act.						
	Scope of Monitoring		: Regulatory Requirment						
	Method of Sampling		12	IS :5182					
	Sampling Duration Parameter Required		1	24 Hrs.					
			1	As per work order					
S.No.	Parameters		Tes	t Method	Results	Units	NAAQS 2009		
1	Carbon Monoxide (as CO)	ab SOP no	VT	L/STP/02:2022, STP-08	0.82	mg/m ^a	4		
2	Mercury (as Hg) M	Methods of air samp		mpling and analysis,3rd	"BLQ ("LOQ	µg/m²	- 2		

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

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"Experience	e the unimoginable" e Number : VTL/AA/01				Report No.		2403230002/A			
Name	& Address of the Party	: M/s Adani Pov		and the second	Format No	: 7.8 F-0	2			
				st- Bade Bhandar,	Party Reference No					
		Tensil- Pussor	e Dist Raiga	rh 496100 Chhattisgarh	report sate	: 28/03/2	and the second sec			
					Period of Analysis		024-28/03/2024			
					Receipt Date	; 23/03/2	024			
Sampl	e Description	: AMBIENT AIR	QUALITY MO	ONITORING						
	General Informatio Sampling Location		:	RO- DM						
	Sample Collected By		5	VTL Team						
	Sampling Equipment	used	•	RDS/FPS						
	Instrument Code		:	VTL/RDS/FPS/04						
	Coordinates		1	21*44'42" & 83*16'35"						
	Meteorological condi	tion during moni	on during monitoring : Clear Sky							
	Date of Monitoring		:	18/03/2024 To 19/03/20	24					
	Time of Monitoring		+	10:30 TO 10:30 Hrs.						
	Ambient Temperature	e (°C)	:	Min. 35°C Max. 15°C						
	Surrounding Activity		:	Human, Vehicular & Pla	ant Act.					
	Scope of Monitoring		G	Regulatory Requirment						
	Method of Sampling		9	IS :5182						
	Sampling Duration		3	24 Hrs.						
	Parameter Required		:	As per work order						
S.No.	Parameters	8	Tes	t Method	Results	Units	NAAQS 2009			
1	Particulate Matter (as PN	410)	IS:5182 (P-2	3)-2005, RA. 2017	61.81	hðyu.	100			
2	Particulate Matter (as PM	A2.5)	i) IS:5182 (P- 24)-2019		27.32	hā/w ₁	60			
3	Nitrogen Dioxide (as NO	2)	15:5182 (P-	6)-2006, RA 2018	15.87	hð/w _a	80			
4	Sulphur Dioxido (as SO2	9	15:5182 (P-	2)-2001, RA. 2018	9.24	µg/m²	80			
		the second se								

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













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2 0141-2954638

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Sample Number : VTL/AA/01		Report No.	: VTL/A/2403230002/B
Name & Address of the Party	M/s Adani Power Limited Village- Chhote Bhandar, Post- Bade Bhandar,	Format No Party Reference No	: 7.8 F-02
	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024
		Period of Analysis Receipt Date	: 23/03/2024-28/03/2024 : 23/03/2024
Sample Description	: AMBIENT AIR QUALITY MONITORING		
General Information Sampling Location	:- : RO-DM		
Sample Collected By	· VTI Team		

	Sumbra Sources of		VIL ISUIII			
	Sampling Equipment used	:	RDS/FPS			
	Instrument Code	:	VTL/RDS/FPS/04			
	Coordinates	:	21*44'42" & 83*16'35"			
	Meteorological condition during mo	onitoring ;	Clear Sky			
	Date of Monitoring	:	18/03/2024 To 19/03/20	24		
	Time of Monitoring	4	10:30 TO 10:30 Hrs.			
	Ambient Temperature (*C)	3	Min. 35°C Max. 15°C			
	Surrounding Activity		Human, Vehicular & Pla	nt Act.		
	Scope of Monitoring		Regulatory Requirment			
	Method of Sampling	4	IS :5182			
	Sampling Duration	14	24 Hrs.			
	Parameter Required	15	As per work order			
S.No.	Parameters	Tes	t Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	ab SOP no. VTI	JSTP/02:2022, STP-08	0.57	mg/m³	4
10	Maximum (as Ha)	tothode of air sa	Inf sigulane bar pollom	*BLO /**100	up/m?	

ŧ.	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.57	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ (**LOQ 0.5)	hðíw,	

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

End of Report









RK Yadav Lab Incharge Authorized Signatory

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BR/					Report No.	1. COLEMAN	403230003/A
Name & Add	lress of the Party	: M/s Adani	Power Limited		Format No	: 7.8 F-02	2
		Village- Ch	hote Bhandar, Po	ost- Bade Bhandar,	Party Reference No	: NIL	
		Tehsil- Put	sore Dist Raiga	rh 496100 Chhattisgarh	Report Date	: 28/03/2	024
					Period of Analysis	: 23/03/2	024-28/03/2024
					Receipt Date	; 23/03/2	024
ample Des	cription	: AMBIENT	AIR QUALITY M	ONITORING			
Sai Sai Sai Sai Sai Co Me Da Da Tin Arr Su Sc Sai Sai	neral Information mpling Location mple Collected By mpling Equipment trument Code ordinates teorological condi- te of Monitoring mblent Temperature rrounding Activity ope of Monitoring thod of Sampling mpling Duration rameter Required	used tion during π	nonitoring	OLD Site Office VTL Team RDS/FPS VTL/RDS/FPS/03 21*44'27" & 83*16'33" Clear Sky 18/03/2024 To 19/03/20 10:00 TO 10:00 Hrs. Min, 35°C Max. 18°C Human, Vehicular & Pic Regulatory Requirment IS :5182 24 Hrs. As per work order	ant Act		
S.No.	Parameters	5	Tes	t Method	Results	Units	NAAQS 2009
1 Parti	culate Matter (as PN	/10)	IS:5182 (P-2	23)-2006, RA. 2017	63.53	µg/m²	100
2 Partie	culate Matter (as PN	A2.5)	IS:5182	2 (P- 24)-2019	28,29	ha/un ₄	60
3 Nitro	gen Dioxide (as NO	2)	IS:5182 (P-	6)-2006, RA.2018	16.10	'hā/ɯa	80
4 Sulp	hur Dioxide (as SO2)	IS:5182 (P-	2)-2001, RA. 2018	9.98	µg/m²	80

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

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TEST REPORT

Sample Number : VTL/AA/02		Report No.	: VTL/A/2403230003/B
Name & Address of the Party	M/s Adani Power Limited Village- Chhote Bhandar, Post- Bade Bhandar,	Format No Party Reference No	: 7.8 F-02
	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024
		Period of Analysis	: 23/03/2024-28/03/2024
		Receipt Date	: 23/03/2024
Sample Description	: AMBIENT AIR QUALITY MONITORING		
General Information	1:-		

0	Parameters	Tae	t Mathad	D.
-	Parameter Required	1	As per work order	
	Sampling Duration	12	24 Hrs.	
	Method of Sampling	- 4	IS :5182	
	Scope of Monitoring	1	Regulatory Requirment.	
	Surrounding Activity	12	Human, Vehicular & Plai	nt Act
	Ambient Temperature ("C)	1	Min. 35°C Max, 18°C	
	Time of Monitoring	- 41	10:00 TO 10:00 Hrs.	
	Date of Monitoring	1	18/03/2024 To 19/03/202	24
	Meteorological condition during monitoring	:	Clear Sky	
	Coordinates	:	21*44'27" & 83*16'33"	
	Instrument Code	:	VTL/RDS/FPS/03	
	Sampling Equipment used	:	RDS/FPS	
	Sample Collected By	;	VTL Team	
	Sampling Location	:	OLD Site Office	
	General Information:-			

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.62	mg/m³	4
2	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1985, Method No.317	*BLQ (**LOQ 0.5)	hð\w,	-

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

End of Report











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/IB	RANI						
Sample	e the unimaginable" e Number : VTL/AA/02	2			Report No.	: VTL/A/2	2403230004/A
lame	& Address of the Party	. M/s Ad	ani Power Limited		Format No	: 7.8 F-02	2
0730923		Village	Chhote Bhandar, Po	ost- Bade Bhandar,	Party Reference No	: NIL	
		Tehsil-	Pussore Dist Raiga	arh 496100 Chhattisgarh	Report Date	: 28/03/2	024
					Period of Analysis	: 23/03/2	024-28/03/2024
					Receipt Date	: 23/03/2	024
ampl	e Description	: AMBIE	NT AIR QUALITY M	ONITORING			
	General Informatio Sampling Location Sample Collected By Sampling Equipment Instrument Code Coordinates Meteorological condi Date of Monitoring	used	: : g monitoring :	Chote Bhandar VTL Team RDS/FPS VTL/RDS/FPS/01 21*43'57" & 83°17'00" Clear Sky 18/03/2024 To 19/03/20	174		
	Time of Monitoring			09:00 TO 09:00 Hrs.	26.7		
	Ambient Temperature	("C)		Min. 18°C Max: 35°C			
	Surrounding Activity			Human, Vehicular & Oli	her Act.		
	Scope of Monitoring			Regulatory Requirment			
	Method of Sampling		1	15 (5182)			
	Sampling Duration			24 Hirs.			
	Parameter Required			As per work order			
S.No.	Parameters	3	Tes	t Method	Results	Units	NAAQS 2009
	Particulate Matter (as PM	110)	IS:5182 (P-1	23)-2006, RA. 2017	66.87	µg/m³	100
2	Particulate Matter (as PM	12.5)	IS:518	2 (P- 24)-2019	31.23	hð/wa	60
1	Nitrogen Dioxide (as NO	2)	IS:5182 (P-	6)-2006, RA.2018	17.51	µg/m²	80
1	Sulphur Dioxide (as SO2)	IS:5182 (P-	2)-2001, RA. 2018	10.25	HB/Wa	80
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*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification













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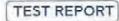
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Sample Number : VTL/AA/02		Report No.	: VTL/A/2403230004/B
Name & Address of the Party	: M/s Adani Power Limited	Format No	: 7.8 F-02
	Village- Chhote Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL
	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024
		Period of Analysis	: 23/03/2024-28/03/2024
		Receipt Date	: 23/03/2024
Sample Description	: AMBIENT AIR QUALITY MONITORING		

S.No.	Parameters	Tes	t Method	Results	Units
	Parameter Required	1	As per work order		
	Sampling Duration	4	24 Hrs.		
	Method of Sampling	21	15 :5182		
	Scope of Monitoring	1	Regulatory Requirment		
	Ambient Temperature (°C) Surrounding Activity		Human, Vehicular & Ot	her Act	
			L Min. 18"C Max. 35"C		
	Time of Monitoring	L	09:00 TO 09:00 Hrs.		
	Date of Monitoring	:	18/03/2024 To 19/03/20	024	
	Meteorological condition during monitoring	:	Clear Sky		
	Coordinates	:	21*43'57* & 83*17'00*		
	Instrument Code	:	VTL/RDS/FPS/01		
	Sampling Equipment used	:	RDS/FPS		
	Sample Collected By	:	VTL Team		
	General Information:- Sampling Location	ć	Chole Bhandar		

S.No.	Parameters	Test Method	Results	Units	NAAQS 2009
1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.66	mg/m²	4
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

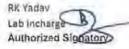
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NAAQS 2009

Name & Address of the Party ; M/s Adani Power Limited Format N Village- Chhote Bhandar, Post- Bade Bhandar, Party Re Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh Report D

Report No.	; VTL/A/2403230005/A
Format No	: 7.8 F-02
Party Reference No	; NIL
Report Date	: 28/03/2024
Period of Analysis	: 23/03/2024-28/03/2024
Receipt Date	: 23/03/2024

Samp	le Description	
------	----------------	--

: AMBIENT AIR QUALITY MONITORING

	General Information:- Sampling Location Sample Collected By Sampling Equipment used Instrument Code Coordinates Meteorological condition during monit Date of Monitoring Time of Monitoring Amblent Temperature (°C) Surrounding Activity Scope of Monitoring Method of Sampling	oring	Bade Bhandar VTL Team RDS/FPS VTL/RDS/FPS/02 21*44'21" & 83*17'21" Clear Sky 18/03/2024 To 19/03/2 09:30 TO 09:30 Hrs, Min. 18*C Max. 35*C Human, Vehicular & C Regulatory Requirmer IS :5182	2024 Other Act.	
	Method of Sampling Sampling Duration Parameter Required		IS :5182 24 Hrs. As per work order		
S.No.	Parameters	Tes	st Method	Results	Units
1	Particulate Matter (as PM10)	IS:5182 (P-	23)-2006, RA. 2017	66.76	hð/wa
2	Particulate Matter (as PM2.5)	IS:518	2 (P- 24)-2019	29.03	µg/mª

a constraint of the second sec				
Particulate Matter (as PM10)	IS:5182 (P- 23)-2006, RA. 2017	66.76	µg/m³	100
Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	29.03	µg/mª	60
Nitrogen Dioxide (as NO2)	IS:5182 (P- 6)-2006, RA 2018	16.21	hð/w _a	50
Sulphur Dioxide (as SO2)	IS:5182 (P-2)-2001, RA. 2018	8,41	()g/m*	HO
	Particulate Matter (as PM2.5) Nitrogén Dioxide (as NO2)	Particulate Matter (as PM2.5) IS:5182 (P- 24)-2019 Nitrogén Dioxide (as NO2) IS:5182 (P- 6)-2006, RA.2018	Particulate Matter (as PM2.5) IS:5182 (P- 24)-2019 29.03 Nitrogen Dioxide (as NO2) IS:5182 (P- 6)-2006, RA 2018 16.21	Particulate Matter (as PM2.5) IS:5182 (P- 24)-2019 29.03 μg/m² Nitrogèn Dioxide (as NO2) IS:5182 (P- 6)-2006, RA 2018 16.21 μg/m²

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













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Report No.



Sample adminer . VIL/WVVI				Report No.	* * i white to we obtained
Name & Address of the Party	·		Format No Party Reference No	: 7.8 F-02 : NIL	
			arh 496100 Chhattisgarh	Report Date	: 28/03/2024
		1		Period of Analysis	: 23/03/2024-28/03/2024
				Receipt Date	; 23/03/2024
Sample Description	: AMBIENT AIR QUALIT	YM	IONITORING		
General Information	1:-				
Sampling Location		1	Bade Bhandar		
Sample Collected By		1	VTL Team		
Sampling Equipment	used	:	RDS/FPS		
Instrument Code		:	VTL/RDS/FPS/02		
Coordinates		:	21*44'21" & 83*17'21"		
Meteorological condit	ion during monitoring	:	Clear Sky		
Date of Monitoring		:	18/03/2024 To 19/03/20	24	
Time of Monitoring		1	09:30 TO 09:30 Hrs.		
Ambient Temperature	("C)	1	Min. 18"C Max. 35"C		
Surrounding Activity		1	Human, Vehicular & O!!	her Act	
Scope of Monitoring		1	Regulatory Reguliment		

Sampling Duration Parameter Required		: 24 Hrs. : 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	0.61	mg/m ³	4
2	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ (**LOQ 0.5)	hð/w,	

: IS:5182

"BLQ-Below Limit Of Quantification. "LOQ-Limit Of Quantification

Method of Sampling

End of Report











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Sampl	e the unimaginable" e Number : VTL/AA/04 & Address of the Party	4 • M/s Adani Power Lin	nited		Report No. Format No.	: VTL/A/2 - 7.8 F-02	2403230006/A 2
		M	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh		Party Reference No Report Date Period of Analysis Receipt Date	: 28/03/2024	
Sampl	e Description	: AMBIENT AIR QUAL	LITY MO	ONITORING			
	General Information Sampling Location Sample Collected By Sampling Equipment Instrument Code Coordinates Meteorological condit Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Scope of Monitoring Method of Sampling Sampling Duration Parameter Required	used ition during monitoring # (*C)		Track Hopper VTL Team RDS/FPS VTL/RDS/FPS/01 21*44'17" & 83°16'44" Clear Sky 19/03/2024 To 20/03/20 09:30 TO 09:30 Hrs. Min. 17*C Max. 30*C Human, Vahicular & Ott Regulatory Reguliment IS :5182 24 Hrs. As per work order	hur AdL		
S.No.	Parameters	r	Test	t Method	Results	Units	NAAQS 2009
t	Particulate Matter (as PM	410) IS:51	82 (P- 2	3)-2006, RA. 2017	58.72	µg/m²	100
2	Particulate Matter (as PN	A2.5)	15:5182	(P- 24)-2019	26.36	µg/m*	60
3	Nitrogen Dioxide (as NO2	2) 15:5	182 (P-	6)-2006, RA 2018	16.42	µg/m³	50
4	Sulphur Dioxide (as SO2) (\$:51	82 (P-	2)-2001, RA. 2018	9.43	(igi/imª	BØ
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*BLO-Below Limit Of Quantification, **LOQ-Limit Of Quantification

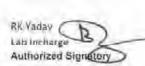














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TEST REPORT

Report No.

Name & Address of the Party	M/s Adani Power Limite	be		Format No	- 7.8 F-02
	T-L-II D			Party Reference No	: NIL
				Report Date	: 28/03/2024
				Period of Analysis	: 23/03/2024-28/03/2024
				Receipt Date	: 23/03/2024
Sample Description	: AMBIENT AIR QUALIT	TY M	IONITORING		
General Informatio	n:-				
Sampling Location		:	Track Hopper		
Sample Collected By		:	VTL Team		
Sampling Equipment	used	:	RDS/FPS		
Instrument Code		1	VTL/RDS/FPS/01		
Coordinates			21*44'17" & 83*16'44"		
Meteorological condi	tion during monitoring	:	Clear Sky		
Date of Monitoring		:	19/03/2024 To 20/03/20	24	
Time of Monitoring		1	09:30 TO 09:30 Hrs.		
Ambient Temperature	(°C)	1	Min 17°C Max 30°C		
Surrounding Activity		10	Human, Vehicular & Oth	ner Act	
Scope of Monitoring		3	Regulatory Requirment		
Method of Sampling		1	IS :5182		
Sampling Duration		4	24 Hrs.		
Parameter Required		- 1	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 ²	-14
2	Mercury (as Hg)	Methods of air sempling and analysis,3rd ed.,1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m*	A.

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

End of Report











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NAAQS 2009

Sample Number : VTL/AA/01		Report No.	: VTL/A/2403230007/A
Name & Address of the Party	M/s Adani Power Limited	Format No	: 7.8 F-02
	Village- Chhote Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL
	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024
		Period of Analysis	: 23/03/2024-28/03/2024
		Receipt Date	: 23/03/2024
Sample Description	: AMBIENT AIR QUALITY MONITORING		
General Informatio	n:-		

	Sampling Location	:	OHC Building				
	Sample Collected By	:	VTL Team				
	Sampling Equipment used	:	RDS/FPS				
	Instrument Code	:	VTL/RDS/FPS/04				
	Coordinates	:	21°43'45" & 83°16'41"				
	Meteorological condition during monit	toring ;	Clear Sky				
	Date of Monitoring	:	: 19/03/2024 To 20/03/2024				
	Time of Monitoring	7	11:30 TO 11:30 Hrs.				
	Ambient Temperature (°C)	2	Min. 17*C Max. 30*C				
	Surrounding Activity		Human, Vehicular & P	lant Act			
	Scope of Monitoring	4	Regulatory Regultment	t			
	Method of Sampling	4	IS :5182				
	Sampling Duration	3	24 Hrs.				
	Parameter Required	3	As per work order				
S.No.	Parameters	Tes	t Method	Results	Units		
1	Particulate Matter (as PM10)	IS:5182 (P-	23)-2006, RA. 2017	61,59	µg/mª	1	
2	Particulate Matter (as PM2.5)	15:518	2 (P- 24)-2019	27.22	µg/m³		
-		The local distance	Conception and the last			-	

2	Particulate Matter (as PM2.5)	IS:5182 (P- 24)-2019	27.22	µg/m³	60
3	Nitrogen Dioxide (as NO2)	IS:5182 (P-6)-2006, RA 2018	14.89	µg/m²	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2)-2001, RA. 2018	9.66	pg/m ³	80

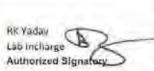
*BLQ-Below Limit Of Quantification, **LOQ-Limit Of Quantification

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Instrument Code

Meteorological condition during monitoring

Coordinates

TEST REPORT

Sample Number : VTL/AA/01	Repaired and the second second second		Report No.	: VTL/A/2403230007/B
Name & Address of the Party	: M/s Adani Power Limited		Format No	: 7.8 F-02
	Village- Chhote Bhandar, P	ost- Bade Bhandar,	Party Reference No	: NIL
	Tehsil- Pussore Dist Ralga	arh 496100 Chhattisgarh	Report Date	: 28/03/2024
			Period of Analysis	: 23/03/2024-28/03/2024
			Receipt Date	: 23/03/2024
Sample Description	: AMBIENT AIR QUALITY M	ONITORING		
General Informatio Sampling Location	n:-			
Sample Collected By		OHC Building		
		VTL Team		
Sampling Equipment	used :	RDS/FPS		

: VTL/RDS/FPS/04

: Clear Sky

: 21*43'45" & 83*16'41"

2	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ (**LOQ 0.5)	hð/w _a	÷.
t	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.76	mg/m?	4
S.No	Parameters	Test Method	Results	Units	NAAQS 2009
	Date of Monitoring Time of Monitoring Ambient Temperature (*C) Surrounding Activity Scope of Monitoring Method of Sampling Sampling Duration Parameter Required	: 19/03/2024 To 20/03/20 11:30 TO 11:30 Hrs Min. 17°C Max. 30°C Human, Vehicular & Pia Regulatory Requirment IS :5182 24 Hrs. As per work order			

End of Report











Page No. 1/1

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2 2024 2024-28/03/2024 2024				
2024-28/03/2024				
2024-28/03/2024				
1024				
: 20/03/2024 To 21/03/2024 : 10:30 TO 10:30 Hrs.				
NAAOS 2009				
100				
60				
80				
30				

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















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Sample Number : VTL/AA	A/06		Report No.	: VIL/A/2403230008/B	
Name & Address of the Part	rty : M/s Adani Power Limite	d	Format No	: 7.8 F-02	
	Village- Chhote Bhanda	Village- Chhote Bhandar, Post- Bade Bhandar, Tohsil- Pussore Dist - Raigarh 496100 Chhatlisgarh		: NIL	
	Tehsil- Pussore Dist - R			; 28/03/2024	
				23/03/2024-25/03/2024	
			Receipt Date	; 23/03/2024	
Sample Description	: AMBIENT AIR QUALIT	Y MONITORING			
General Informa					
Sampling Location Sample Collected By Sampling Equipment used		: Amli Bhavan			
		: VTL Team			
		: RDS/FPS			
Instrument Code		: VTL/RDS/FPS/01			
Coordinates		: 21*43'26" & 83*16'11"			

: Clear Sky

φ.

: 20/03/2024 To 21/03/2024

Regulatory Requirment

: Human, Vehicular & Other Act.

: 10:30 TO 10:30 Hrs

: Min. 17°C Max. 30°C

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	0.64	mg/m ⁺	4
2	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ (**LOQ 0.5)	hð\w ₄	-

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

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Surrounding Activity

Scope of Monitoring

Ambient Temperature (°C)

"End of Report"











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Experience	te the unimaginable" le Number : VTL/AA/06	δ		Report No.	: VTL/A/	2403230009/A
Name & Address of the Party		M/s Adani Power Limited		Format No	• 7.8 F-02	
Hame	a radiess of the larg			Party Reference No		
			Dist - Raigarh 496100 Chhattisgarh		: 28/03/2	024
			And a second second second	Period of Analysis		024-28/03/2024
				Receipt Date	: 23/03/2	
Samp	le Description	: AMBIENT AIR (UALITY MONITORING			55 T
	General Informatio					
	Sampling Location		: Industrial Canteen			
	Sample Collected By		: VTL Team			
	Sampling Equipment	used	: RDS/FPS			
	Instrument Code		: VTL/RDS/FPS/02			
Coordinates Meteorological condit			: 21*44'42* & 83*16'39*			
		tion during monite	ring : Clear Sky			
	Date of Monitoring	POTENCIA MARCHARDINE				
	Time of Monitoring		: 19/03/2024 To 20/03/2 : 10:30 TO 10:30 Hrs			
	Ambient Temperature	1 ("C)	: Min. 17°C Max: 30°C			
	Surrounding Activity	0.00	: Human, Vehicular & Of	her Act		
	Scope of Monitoring		Regulatory Reguliment			
	Method of Sampling		: IS:5182			
	Sampling Duration		: 24 Hrs.			
	Parameter Required		I As per work order			
S.No.	Parameters	5	Test Method	Results	Units	NAAQS 2009
1	Particulate Matter (as PM	/10) /	5:5182 (P- 23)-2006, RA. 2017	65.3	µg/m³	100
2	Particulate Matter (as PN	12.5)	IS:5182 (P- 24)-2019	27.2	µg/m²	60
3	Nitrogen Dioxide (as NO2	2)	S:5182 (P- 6)-2006, RA.2018	17,9	µg/m³	80
4	Sulphur Dioxide (as SO2	9	5:5182 (P-2)-2001, RA. 2018	9.7	Va/m ¹	80

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















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	e the unimoginable" e Number : VTL/AA/06	k.			Report No.	: VTL/A/2	2403230009/B	
Name	& Address of the Party	. M/s Adani	Power Limited		Format No	: 7.8 F-02	2	
		hhote Bhandar,	Post- Bade Bhandar,	Party Reference No				
		Tehsil- Pu	ssore Dist Rai	garh 496100 Chhattisgarh	Report Date	: 28/03/2	024	
					Period of Analysis	: 23/03/2	024-28/03/2024	
					Receipt Date	: 23/03/2	024	
Sampl	e Description	: AMBIENT	AIR QUALITY	MONITORING	12	a.,		
	General Information Sampling Location	n:-		Industrial Canteen				
	Sample Collected By			: VTL Team				
	Sampling Equipment	used		RDS/FPS				
	Instrument Code Coordinates Meteorological condition during monitoring Date of Monitoring			: VTL/RDS/FPS/02				
			: 21°44'42" & 83°16'39" nonitoring : Clear Sky : 19/03/2024 To 20/03/2024					
	Time of Monitoring			: 10:30 TO 10:30 Hrs.				
	Ambient Temperature	(°C)		Min. 17°C Max. 30°C				
	Surrounding Activity			Human, Vehicular & Ot	her Act.			
Scope of Monitoring		: Regulatory Reguliment						
	Method of Sampling		3	IS:5182				
	Sampling Duration			: 24 Hrs.				
	Parameter Required		-	As per work order				
S.No.	Parameters	· · · · · ·	Te	est Method	Results	Units	NAAQS 2009	
1	Carbon Monoxide (as CC)	Lab SOP no. V	TU/STP/02:2022, STP-08	0.55	mg/m ^a	- 4	

1014-1		and the second s
	ed., 1988, Method No.317	0.5)
		11 C S.

'BLQ-Below Limit Of Quantification, "LOQ-Limit Of Quantification

End of Report

Methods of air sampling and analysis,3rd

VIBRANT "Experience the unimoginable"

"BLQ ("LOQ

µg/m²



2

Mercury (as Hg)





RK Yadav	
Lab incharge	-
Authorized Signatory	

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		Raigarh 496100 Chhattisgarh	Report Date Period of Analysis Receipt Date	: 28/03/20 : 23/03/20 : 23/03/20	024-28/03/2024
Sample Description	: AMBIENT AIR QUALI	TY MONITORING	Tradopt buto	. 20100/20	324
General Information Sampling Location Sample Collected By Sampling Equipment Instrument Code Coordinates Meteorological condit Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Scope of Monitoring Method of Sampling Sampling Duration Parameter Required	used tion during monitoring	 Supa Village VTL Team RDS/FPS VTL/RDS/FPS/02 21*45'9" & 83°18'4" Clear Sky 20/03/2024 To 21/03/20 11:00 TO 11:00 Hrs. Min. 17"C Max. 30"C Human, Vehicular & OU Regulatory Reguliment. IS: 5182 24 Hrs. As per work order 	nor Act		. A.
S.No. Parameter	5	Test Method	Results	Units	NAAQS 2009
	10.040	(P- 23)-2006, RA. 2017	65.8	ug/m*	100
1 Particulate Matter (as Pf	10.0104	11 - FAL FAAA' IA (FALL			
1 Particulate Matter (as Pf 2 Particulate Matter (as Pf		5182 (P- 24)-2019	27.6	ug/m²	60

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

Sulphur Dioxide (as SO2)

4



IS:5182 (P-2)-2001, RA. 2018









BK Yadav Lab Incharge Authorized Signatory

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Sample Number : VTL/AA/06	5	Report No.	: VTL/A/2403230010/B
Name & Address of the Party	: M/s Adani Power Limited	Format No	: 7.8 F-02
	Village- Chhote Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL
	Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024
		Period of Analysis	: 23/03/2024-28/03/2024
		Receipt Date	: 23/03/2024
Sample Description	: AMBIENT AIR QUALITY MONITORING		

aampi	: AMBIENT	AIR QUALITY	MONITORING			
	General Information:- Sampling Location Sample Collected By Sampling Equipment used Instrument Code Coordinates Meteorological condition during m Date of Monitoring Time of Monitoring Ambient Temperature (*C) Surrounding Activity Scope of Monitoring Method of Sampling Sampling Duration Parameter Required		 Supa Village VTL Team RDS/FPS VTL/RDS/FPS/02 21*45'9" & 63*18'4" Clear Sky 20/03/2024 To 21/03/202 11:00 TO 11:00 Hrs. Min. 17"C Max. 30"C Human, Vehicular & Oth Regulatory Requirment IS :5182 24 Hrs. 			
	Parameter Required	- E	As per work order			
S.No.	Parameters	T	est Method	Results	Units	NAAQS 2009
1	Carbon Monovide /as CO\	ah SOP no V	90. GT2 CC0C-CONGT2/ IT	0.40	malent.	

1	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.49	mg/m ³	- 24
2	Mercury (as Hg)	Methods of air sampling and analysis,3rd ed.,1988, Method No.317	*BLQ (**LOQ 0.5)	µg/m³	

End of Report









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Sample Number: Name & Address of the Party:

Sample Description:

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

Report No.:	VTL/FA/2403230001
Format No.:	7.8 F-01
Party Reference No.:	NIL
Report Date:	28/03/2024
Period of Analysis:	23/03/2024- 28/03/2024
Receipt Date:	23/03/2024
Sampling Date:	20/03/2024
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)	8Y AAS Method	0.57	mg/kg
4.	Lead (as Pb)	BY AAS Method	0.76	mg/kg
5.	Barium (as Ba)	BY AAS Method	0.34	mg/kg
6.	Cadmium (as Cd)	BY AAS Method	0.66	mg/kg
7.	Cobalt (as Co)	BY AAS Method	0.24	mg/kg
8.	Copper (as Cu)	BY AAS Method	0.59	mg/kg
9.	Fluoride (as F)	BY AAS Method	0,53	mg/kg
10,	Iron (as Fe)	BY AAS Method	0.68	mg/kg
11.	Mercury (as Hg)	BY AAS Method	0.32	mg/kg
12,	Mangnese (as Mn)	BY AAS Method	0.25	mg/kg
13.	Nickel (as Ni)	BY AAS Method	0.33	mg/kg
14.	Zinc (as Zn)	BY AAS Method	0.47	mg/kg
15.	Silica (SiO2)	15:1727:1967	57.31	%
16.	Ferric Oxide (Fe2O3)	15:1727:1967	7.85	%
17.	Alumina Oxide (Al2O3)	IS: 1727; 1967	29.52	%
18.	Sulphuric Anhydride (SO3)	IS: 1727: 1967	0.34	%
19.	Sodium Oxide	15:1727:1967	0.041	1%
20.	Potassium Oxide	IS: 1727: 1967	0.058	%
21.	Calcium Oxide	IS: 1727: 1967	3.34	%
22.	Magnesia (MgO)	15:1727:1967	0.89	%
23.	Titanium Dioxide (Tio2)	IS: 1727: 1967	0.06	%
24.	P205	IS: 1727: 1967	0.09	%





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Sample Number: Name & Address of the Party:

Sample Description:

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

Report No.:	VTL/BA/2403230001
Format No.:	7.8 F-01
Party Reference No.:	NIL
Report Date:	28/03/2024
Period of Analysis:	23/03/2024- 28/03/2024
Receipt Date:	23/03/2024
Sampling Date:	20/03/2024
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	6.26	mg/kg
4.	Lead (as Pb)	BY AAS Method	8.10	mg/kg
5.	Barium (as Ba)	BY AAS Method	0.56	mg/kg
6.	Cadmium (as Cd)	BY AAS Method	1.28	mg/kg
7.	Cobalt (as Co)	BY AAS Method	0.21	mg/kg
8.	Copper (as Cu)	BY AAS Method	14.36	mg/kg
9.	Fluoride (as F)	BY AAS Method	0.54	mg/kg
10.	Iron (as Fe)	BY AAS Method	0.71	mg/kg
11.	Mercury (as Hg)	BY AAS Method	0.38	mg/kg
12.	Mangnese (as Mn)	BY AAS Method	0.32	mg/kg
13.	Nickel (as NI)	BY AAS Method	0.39	mg/kg
14.	Zinc (as Zn)	BY AAS Method	0.92	mg/kg
15.	Silica (SiO2)	15: 1727: 1967	58,00	%
16.	Ferric Oxide (Fe2O3)	IS: 1727: 1967	4.91	%
17.	Alumina Oxide (Al2O3)	IS: 1727: 1967	30.34	3%
18.	Sulphuric Anhydride (S03)	IS: 1727: 1967	0.32	%
19.	Sodium Oxide	IS: 1727: 1967	0.21	%
20.	Potassium Oxide	IS: 1727: 1967	0.29	%
21.	Calcium Oxide	IS: 1727: 1967	3.83	96
22.	Magnesia (MgO)	IS: 1727: 1967	0.86	%
23.	Titanium Dioxide (Tio2)	IS: 1727: 1967	0.23	%
24.	P205	IS: 1727: 1967	0.24	%





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

	Report No.		VTL/5/2403230001/A
	Format No	2	7.8 F-03
	Party Reference No	1	NIL
h	Report Date	ŝ	28/03/2024
	Period of Analysis	;	23/03/2024-28/03/2024
	Receipt Date	:	23/03/2024

S.No.	Parameters		Test Method
	Coordinates	3	+
	Protocol used	- 2	IS 11255 & USEPA
	Sampling condition	1	OK
	Flow rate of Gas (LPM)	1	2.0
	Flow rate of PM (LPM)	12	20
	Velocity of Stack Gases (m/sec.)	- 2	13.57
	Temperature of Stack Gases - Ts (*C)	1	115°c
	Ambient Temperature - Ta (°C)	÷	25°C
	Meteorological Condition	1	Clear Sky
	Instrument calibration status	1	Calibrated
	Height of stack(m)	1	275 m
	Diameter of stack(m)	12	7.5 m
	Make of stack	1	RCC
	Stack attached to	4	TPP
	Sampling duration (Minutes)	:	50 min. (14:30 to 15:20 hrs.)
	Date of Sampling	:	18/03/2024
	Sample Collected By	:	VTL Team
	Sampling Location	-	TPP
Sample	Description : Stack Emission General Information:-	Mon	hitoring

S.No.	Parameters	Test Method	Results	Units
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	43.14	mg/Nm3
2	Sulphur Dioxide (SO2)	IS: 11265(P- 2): 1985, RA.2019	738.69	mg/Nm3
3	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017	.301.02	mg/Nm3
4	Mercury (Hg)	USEPA 29: 1996	*BLQ(**LOQ-0.001)	mg/Nm3

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

End of Report

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: VTL/S/2403230002/A Report No. : M/s Adani Power Limited Format N Village- Chhote Bhandar, Post- Bade Bhandar, Party Ref Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh Report Da Period of

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Format No	: 7.8 F-03
Party Reference No	: NIL
Report Date	: 28/03/2024
Period of Analysis	: 23/03/2024-28/03/2024
Receipt Date	: 23/03/2024

SNO	Paramotore		Test Mathod
_	Coordinates	:	+
	Protocol used	-	IS 11255 & USEPA
	Sampling condition	3	OK
	Flow rate of Gas (LPM)	- 2	2,0
	Flow rate of PM (LPM)	1	29
	Velocity of Stack Gases (m/sec.)	17	8.59
	Temperature of Stack Gases - Ts (*C)	1	104*c
	Amblent Temperature - Ta (*C)	. 3	23°C
	Meteorological Condition	12	Clear Sky
	Instrument calibration status	18	Gallbrated
	Height of stack(m)	1	30 m
	Diameter of stack(m)	:	0.7 m
	Make of stack	:	MS
	Stack attached to	:	DG Set
	Sampling duration (Minutes)	;	34 min. (11:00 to 11:34 hrs.)
	Date of Sampling	:	19/03/2024
	Sample Collected By	:	VTL Team
	General Information:- Sampling Location	:	DG Set -03 1500 KVA
Sample	Description : Stack Emission	Mor	hitoring
Comple	Decemination		· · · ·

S.No.	Parameters	Test Method	Results	Units	Limits
1	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	67,59	mg/Nm3	78
2	Sulphur Dioxide (SO2)	IS: 11255(P-2): 1985, RA.2019	90.34	mg/Nm3	-
3	Total Hydrocarbon (THC)	USEPA.18: 1996	19.22	mg/Nin3	100
4	Oxide of Nitrogen (NO2)	IS-11255 (P-7), RA 2017	458.72	ppmv	710

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

End of Report











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Sample Number: Name & Address of the Party:

Sample Description:

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

Report No.:	VTL/C/2403230001
Format No.:	7.8 F-01
Party Reference No.:	NIL
Report Date:	28/03/2024
Period of Analysis:	23/03/2024- 28/03/2024
Receipt Date:	23/03/2024
Sampling Date:	20/03/2024
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	B1.Q	mg/kg
3.	Chromium (as Cr)	BY AAS Method	0.87	mg/kg
4.	Lead (as Pb)	BY AAS Method	0.71	mg/kg







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TEST REPORT ULR No. : TC1122724000000498F Sample Number: VTL/AN/04 : VTL/N/2403230001/A Report No. Name & Address of the Party : M/s Adani Power Limited Format No : 7.8 F-04 Village- Chhote Bhandar, Post- Bade Bhandar, Party Reference No : NIL Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh Report Date : 28/03/2024 Receipt Date : 23/03/2024 : Ambient Noise Level Monitoring Sample Description Sampling Duration 124 Hrs. Scope of Monitoring : Regulatory Requirment Sample Collected : VTL Team Protocol Used : 15 9989 Instrument - Calibrated Instrument Used : SLM **Calibration Status** General Information:-Sampling Location Track Hopper Instrument Code : VTL/SLM/01 Meteorological condition during monitoring : Clear Sky Date of Monitoring 19/03/2024 To 20/03/2024 2.1 **Time of Monitoring** 06:00 TO 06:00 Hrs. Ambient Temperature (*C) 1 Min. 17"C Max. 30"C Surrounding Activity Human, Vehicular & Plant Act. 1 Parameter Required : As per work order : NA Coordinates Test Result dB(A) S.No. Protocol Test Parameters Day Time Night Time 56.5 43.8 IS 9989 - 1981 RA:2020 Leg Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000 Category of Area/Zone Area Code Limits in dB(A) Leq* Day Time Night Time Industrial area 75 70 Ä 55 65 в Commercial area 45 **Residential area** 55 С 50 40 D Silence Zone 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. ence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle norm, Loudspeaker and bursting of crackers is barred in these sones. Note: Maked 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" LAR 30 **RK Yadav** Lab Incharge Authorized Signatory Checked by PIA IS 0 Page No. 1/1 E M Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified Vibrant Techno Lab Pvt. Ltd. 2 0141-2954638 B bd@vibranttechnolab.com 9 SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020 www.vibranttechnolab.com 9929108691, 9810205356, 8005707098, 9549956601

Scope of Monitoring : Re Protocol Used : IS instrument Used : SI General Information:- Sampling Location Instrument Code Meteorological condition of Date of Monitoring Time of Monitoring Ambient Temperature (°C) Surrounding Activity Parameter Required Coordinates S.No. Test Parameter	iuring monitoring ers ee Quality Standards Catego Indu Con Res	: Bade Bhandar : VTL/SLM/02	ant Act.	Uration : ected : Status : Status : Day T 55. Rules, 2000 Un y Time 75 65		ult dB(A) Night Time 44.3
Sampling Location Instrument Code Meteorological condition of Date of Monitoring Time of Monitoring Ambient Temperature (*C) Surrounding Activity Parameter Required Coordinates S.No. Test Paramete Leq Ambient Note Area Code A B C D L Day Time is from 6.00 AM to 10.00 PM. Stilence Zone is defined as an area up to 100 n these zones.	e Quality Standards Catego Indu Con Res	: VTL/SLM/02 : Clear Sky : 18/03/2024 To 19/03/20 : 06:00 TO 06:00 Hrs. : Min. 18°C Max. 35°C : Human, Vehicular & Pla : As per work order : NA Protocol IS 9989 - 1981 RA:20 IS 9988 - 1981 RA:20 IS 9988 - 1981 RA:20 IS 9988 - 1981	ant Act.	Day T 55. Rules, 2000 Lin ty Time 75 65	ime 1	Night Time 44.3 ten* Mght Time 70
Ambient Nois Area Code A B C D Day Time is from 6.00 AM to 10.00 PM. Silence Zone is ckoned between 10.00 PM to Silence Zone is ckoned between 10.00 PM to Silence Zone s.	e Quality Standards Catego Indu Con Res	IS 9989 - 1981 RA:20 as per Noise Pollution (Regulatio ry of Area/Zone ustrial area mmercial area sidential area	n and Control) (Day T 55. Rules, 2000 Lin ty Time 75 65	ime 1	Night Time 44.3 ten* Mght Time 70
Ambient Note Area Code A B C D Oay Time is reckaned between 10.00 PM. Silence Zone is defined as an area up to 100 m these zones.	Catego Indi Con Res	as per Noise Pollution (Regulatio ry of Area/Zone ustrial area nmercial area sidential area	n and Control) (55. Rules, 2000 Lir Ny Time 75 65	.1	44.3 Hight Time 70
Ambient Note Area Code A B C D Oay Time is reckaned between 10.00 PM. Silence Zone is defined as an area up to 100 m these zones.	Catego Indi Con Res	as per Noise Pollution (Regulatio ry of Area/Zone ustrial area nmercial area sidential area	n and Control) (Rules, 2000 Lir Vy Time 75 65		ten* Päght Time 70
Area Code A B C D D Over Time is from 6.00 AM to 10.00 PM. Inght Time is reckoned between 10.00 PM to Silence Zone is defined as an area up to 100 m these zones.	Catego Indi Con Res	ny of Area/Zone ustrial area mmercial area sidential area		Lir iy Time 75 65	mits in dB(A)	Hight Time 70
A B C D Day Time is from 6.00 AM to 10.00 PM. Night Time is reckoned between 10.00 PM to Silence Zone is defined as an area up to 100 m these zones.	Indu Con Res	ustrial area mmercial area sidential area	Da	75 65	und in GO(A)	Hight Time 70
B C D Day Time is from 6.00 AM to 10.00 PM. Night Time is reckoned between 10.00 PM to Silence Zone is defined as an area up to 100 m these zones.	Con Res	nmercial area sidential area		75 65		70
C D Day Time is from 6.00 AM to 10.00 PM. Night Time is reckoned between 10.00 PM to Silence Zone is defined as an area up to 100 m these zones.	Res	sidential area				66
D Day Time is from 6.00 AM to 10.00 PM, Night Time is reckoned between 10.00 PM to Silence Zone is defined as an area up to 100 m these zones.						
Day Time is from 8.00 AM to 10.00 PM, Night Time is reckoned between 18.00 PM to Silence Zone is defined as an area up to 100 m these zones.	Siler	nce Zone		55	_	45
	around premises of Ho					
Checked	by	JAIPUR JAIPUR	RK Yadav Lab incharj Authorized	-	5	
Approved & Contified EPA 1988	Recognised, ISO	9001 and OHSAS:45001 C	ertified			1.124 (1.47)

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these zones.	s be declared as one of the four above to			anding standards	
	0.00 PM.	ce Zone	50	d bursting of an	40
A B	Com	strial area imercial area idential area	Day Time 75 65 55		Night Time 70. 55 45
Leg Area Code	Ambient Noise Quality Standards Categor	the second states of the second states	and the second se		
10.5	Parameters	Protocol IS 9989 - 1981 RA:202		Test Res / Time 54.2	ult dB(A) Night Time 41.5
Date of Monitori Time of Monitor Amblent Tempe Surrounding Ac Parameter Requ Coordinates	: Regulatory Requirmen : IS 9989 : SLM mation:- ion e condition during monitoring ing rature ("C) tivity ired	 Chote Bhandar VTL/SLM/03 Clear Sky 18/03/2024 To 19/03/20 06:00 TO 06:00 Hrs, Min. 18°C Max. 35°C Human, Vehicular & Plat As per work order NA 	Sample Collected Instrument Calibration Status 24	: VTL Tean	1
ample Description	arty : M/s Adani Power Limi Village- Chhote Bhand Tehsil- Pussore Dist : Ambient Noise Level	lar, Post- Bade Bhandar, Reigarh 496100 Chhattisgarh Monitoring	Report No. Format No Party Reference No Report Date Receipt Date Sampling Duration Sample Collected	: 7.8 F-04 : NIL : 28/03/202 : 23/03/202 : 24 Hrs	14
IBRANT					TC-11327

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Sample	RANT S Kulffiggainoble" TL/AN/OI Address of the Party	: M/s Adani Power Lim Village- Chhote Bhar	nited ndar, Post- Bade Bhandar, - Raigarh 496100 Chhattisg	Report No. Format No Party Reference Report Date	ence No :	7.8 F-04	03230004/A
cope	e Description of Monitoring ol Used nent Used	: Ambient Noise Leve : Regulatory Requirme : IS 9989 : SLM		Receipt Dat Sampling D Sample Col Instrument Calibration	uration : lected :	23/03/202 24 Hrs. VTL Team Calibrated	
	General Informatic Sampling Location Instrument Code Meteorological condi Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Parameter Required Coordinates	tion during monitoring + (°C)	 Amli Bhavan VTL/SLM/04 Clear Sky 19/03/2024 To 20/0 06:00 TO 08:00 Hrs Min. 17*C Max. 30* Human, Vehicular 8 As per work order NA 	c.			
S.No.	Test Para	imeters	Protocol				ult dB(A)
			And the second		Day T		Night Time
1	Leq		IS 9989 - 1981 RA	10170 L	55	<u>0</u> .	41.3
New?	Code		s as per Noise Pollution (Regu ary of Area/Zone	lation and Control)	the second s	nits in dB(A	Leo*
Area	uve.	catego	al a rical cone	0	ay Time		Night Time
	A	Ind	lustrial area		75		70
	8		mmercial area		65		55 45
-	C D		sidential area	-	55		40
. allaba	Time is reckoned between 10.0	o 100 m around premises of Ho	e mentioned categories by the com ***End of Report***	petent Authority and th			
3.Silence these a	cones.	Sinn	Lind of Roport				





lame & Address of the Party Sample Description Scope of Monitoring Protocol Used Instrument Used General Information Sampling Location		Shandar, Post- Bade Bhandar, Dist Raigarh 496100 Chhattisgarh Level Monitoring		: 7.8 F-04 No : NIL : 28/03/20 : 23/03/20			
cope of Monitoring Protocol Used nstrument Used General Informatio	Tehsil- Pussore I : Ambient Noise I : Regulatory Requ : IS 9989	Dist Raigarh 496100 Chhattisgarh Level Monitoring	Report Date Receipt Date Sampling Durat	: 28/03/20			
cope of Monitoring Protocol Used nstrument Used General Informatio	: Ambient Noise I : Regulatory Requ : IS 9989	Level Monitoring	Receipt Date Sampling Durat	5 7 7 9 P 7 9 7	0.4		
cope of Monitoring Protocol Used nstrument Used General Informatio	: Regulatory Requ : IS 9989		Sampling Durat	: 23/03/20			
cope of Monitoring Protocol Used nstrument Used General Informatio	: Regulatory Requ : IS 9989			Sampling Duration : 24 Hrs.			
Protocol Used Instrument Used General Informatio	: IS 9989	innent	17				
nstrument Used General Informatio			Sample Collect				
General Informatio	2 Second		Instrument	- Calibrate	d		
	A had been a		Calibration Stat	US			
Sampling Location	on:-	States Alexand					
Control Management of the second		: Village - Kathli					
Instrument Code		: VTL/SLM/03					
Meteorological cond	ition during monito						
Date of Monitoring		: 19/03/2024 To 20/03/20	124				
Time of Monitoring	- (90)	: 06:00 TO 06:00 Hrs.					
Ambient Temperatur	12.2.0.2.1	: Min. 17°C Max. 30°C					
Surrounding Activity		: Human, Vehicular & Pla	ant Act.				
Parameter Required		 As per work order 					
Coordinates		: NA			0.0000000		
S.No. Test Para	ameters	Protocol		Test Res	sult dB(A)		
1.1.		- Harrison and		Day Time	Night Time		
1 Lég		IS 9989 - 1981 RA:202	20	52.4	40.9		
Ámbie	nt Noise Quality Stand	ards as per Noise Pollution (Regulation	n and Control) Rule	5,2000			
Area Code	Ca	tegory of Area/Zone		Limits in dB(/			
			Day Th		Night Time		
A		Industrial area		5	70		
B C		Commercial area Residential area		is s	45		
D		Silence Zone	_	0	40		
these zones.	to 100 m around premises	of Hospitals, Educational and Courts. Use of bove mentioned categories by the competer ***End of Report***					

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IBRAN Sample Nomberginal Name & Address of	VTL/AN/03	: M/s Adani Power Village- Chhote B	Limited handar, Post- Bade Bhandar, Jist Raigarh 496100 Chhattisga	Report No Format No Party Refe rh Report Da	o : erence No :	VTL/N/240 7.8 F-04 NIL 28/03/2024	19 2 9, 8 3 (6, 10)
Sample Description Scope of Monitoring Protocol Used Instrument Used		: Ambient Noise L : Regulatory Requi : IS 9989 : SLM		Receipt D Sampling Sample C Instrumer Calibratio	Duration : Ouration : collected :	23/03/2024 24 Hrs VTL Team Calibrated	
Sampling I Instrument	Code nitoring nitoring emperature ng Activity Required	tion during monitor	 Near OHC VTL/SLM/01 Clear Sky 20/03/2024 To 21/03 06:00 TO 06:00 Hrs. Min. 17*C Max. 30*C Human, Vehicular & As per work order NA 				
3.No.	Test Para	meters	Protocol	1.0	Test Result dB(A) Day Time Night Time		
1			IS 9989 - 1981 RA:	2020	Day T 64		Night Time 48 3
Leq	Ambler	t Noise Quality Stand	ards as per Noise Pollution (Regula				40.0
Area Code		the second se	tegory of Area/Zone	A STATE AND A STATE	Li	mits in dB(A)	
	-			10	Day Time		Night Time
Α.			Industrial area Commercial area		<u>75</u> 65		70
B C	-		Residential area	-	55		45
D			Silence Zone		50		40
these somes. Note: Mixed categories	of areas de de	clared as one of the four a	bove mentioned categories by the comp ***End of Report***	etent Authority an	d the correspond	ong stantlards	shall apply
Approved & Certif		cked by	JAIPUR JAIPUR		1 D	3	Page No. 1/
Vibrant To	hno l	ab Pvt. Ltd	V.			C 0141-2	954638
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0 5C.40 2.4 El-	or Marain		Road Jaipur Rai, suzuzu				
9 SC-40, 3rd Flo		6, 8005707098, 9					ibranttechnolab.co



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40.00						10-1122	
	RANT	8		Report No.	+ VTL/N/24	03230007/A	
	& Address of the Party	: M/s Adam Power Lin	nited	Format No	- 7.8 F-04		
ame	a Address of the Farty	a transformer of the second	ndar, Post- Bade Bhandar,	Party Reference No	: NIL		
			- Raigarh 496100 Chhattisgarh		111111111111111	0	
				Report Date	: 28/03/202		
				Receipt Date	: 23/03/202	24	
	e Description	: Ambient Noise Lev	2	Sampling Duration	: 24 Hrs.		
	of Monitoring	: Regulatory Requirme	ent	Sample Collected	d : VTL Team		
	ol Used	: IS 9989		Instrument	 Calibrated 	d .	
strun	nent Used	: SLM		Calibration Status			
	General Informatio	on:-					
	Sampling Location		: Switch Yard				
	Instrument Code		: VTL/SLM/04				
	and the second se	ition during monitoring					
	Date of Monitoring	non during monitoring	: 18/03/2024 To 19/03/20	24			
			· · · · · · · · · · · · · · · · · · ·	12.4			
	Time of Monitoring	6 (PC)	: 06:00 TO 06:00 Hrs.				
	Ambient Temperatur		: Min. 18"C Max 35"C	an har			
	Surrounding Activity		Human, Vehicular & Pla	INT ACL			
	Parameter Required		: As per work order				
	Coordinates		: NA				
No.	Test Para	ameters	Protocol		Test Res	t Result dB(A)	
				Day	Time	Night Time	
-	Leg		IS 9989 - 1981 RA:202	20 6	1.1	49.1	
1.1		which a Develop Characteria	a test of the second				
Anna	Code	Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, Category of Area/Zone		n and control/ koles, 200	Limits in dB(A) Leq*		
Area	Loge	Catego	ary of Arcorconic	Day Time	Day Time Night Time		
_		ter	tustrial area	75		70	
	A			65		55	
	D	Co	mmercial area sidential area	and the second se		55 45	
Night Silence	D D D D D D D D D D D D D D D D D D D	Co Re Sile M. 10 PM to 6.00 AM. to 300 m around premises of H	mmercial area sidential area ence Zone ospitals, Educational and Courts. Use of	65 55 50 vehicle horn, (ourispeaker an		45 40 ackers is benued in	
Night Silence	D D D D D D D D D D D D D D D D D D D	Co Re Sile M. 10 PM to 6.00 AM. to 300 m around premises of H	mmercial area Isidential area Ince Zone	65 55 50 weblicke horn, countspeaker an it Authority and the correspon		45 40 ackers is benued in	
Appril	A C D D Ime is from 6.00 AM to 10.00 Pf Time is reckoned between 10.0 e Zone is defined as an area up to zones. Mixed categories of areas be de Che Coverd as certified EP/ rant Technol	Co Re Sile M. 00 PM to 5.00 AM. to 300 m around premises of H eclared as one of the four above pecked by A 1986 Recognised, ISO Lab Pvt. Ltd.	mmercial area esidential area ence Zone ospitals, Educational and Courts. Use of a ementioned categories by the competer ***End of Report*** ***End of Report***	RK Vadav Lab incharge Authorized Signat	Con Contraction Co	45 40 ackers is barnied in canal apply Page No. 1 Page No. 1	
Might Silence these z Note: 1 Note: 1	A C D D Ime is from 6.00 AM to 10.00 Pf Time is reckoned between 10.0 e Zone is defined as an area up to zones. Mixed categories of areas be de Che Coverd as certified EP/ rant Technol	Co Re Sile M. 10 PM to 5:00 AM. to 300 m around premises of H eclared as one of the four above pecked by A 1986 Recognised, ISO Lab Pvt. Ltd. ran Vihar S, Ajmer Ro	mmercial area esidential area ence Zone ospitals, Educational and Courts. Use of the ementioned categories by the competer ""End of Report"" ""End of Report"" ""End of Report"" ad, Jaipur Raj. 302020	RK Vadav Lab incharge Authorized Signat	offy Tory Tory Tory Tory Tory Tory Tory Tor	45 40 ackers is benied in ential apply	



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		TEST REPORT		10-11227
VIBRANT **S語情好音祝品情報のの「「 Name & Address of the Party	; M/s Adani Power Limite		Report No. Format No	; VTL/N/2403230009/A ; 7.8 F-04
		ar, Post- Bade Bhandar, Raigarh 496100 Chhattisgarh	Party Reference No Report Date Receipt Date	: NIL : 28/03/2024 : 23/03/2024
Sample Description Scope of Monitoring Protocol Used Instrument Used	: Ambient Noise Level I : Regulatory Requirment : IS 9989 : SLM		Sampling Duration Sample Collected Instrument Calibration Status	: 24 Hrs. : VTL Team : Calibrated
General Information Sampling Location Instrument Code Meteorological condit Date of Monitoring Time of Monitoring Ambient Temperature Surrounding Activity Parameter Required Coordinates	tion during monitoring	 Old Site Office VTL/SLM/01 Clear Sky 18/03/2024 To 19/03/20 06:00 TO 06:00 Hrs. Min. 18*C Max. 35*C Human, Vehicular & Pla As per work order NA 		

S.No.	Test Parameters	Test Parameters Protocol		Test Result dB(A)		
			Day Time	Night Time		
1	Leq	IS 9989 - 1981 RA-2020	.57.8	48.5		

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

2. Night Time is reckoned between 10.00 PM to 6.00 AM. 3.Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of trackers is barned 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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ame & Address of th ample Description cope of Monitoring rotocol Used astrument Used General In Sampling Li	Village- Chhote Bł Tensil- Pussore D : Ambient Noise Lu : Regulatory Requir : IS 9989 : SLM formation:-	hsil- Pussore Dist Raigarh 496100 Chhattisgarh F nbient Noise Level Monitoring gulatory Requirment 9989		: 7.8 F-04 : NIL : 26/03/202 : 23/03/202 : 24 Hrs. : VTL Tean : Calibrated	24 n
Instrument Meteorologi Date of Mon Time of Mon	cal condition during monitori itoring iitoring	: VTL/SLM/02	24		
Ambient Ter Surrounding Parameter F Coordinates	a Activity acquired	Min. 17*C Max. 30*C Human, Vehicular & Pla As per work order NA	nt Act.		
Surrounding Parameter F Coordinates	a Activity acquired	: Human, Vehicular & Pla : As per work order		1 1 1 1 1 1 1 1 1	ult dB(A)
Surrounding Parameter F Coordinates	J Activity equired	: Human, Vehicular & Pia : As per work order : NA Protocol	Day	/ Time	Night Time
Surrounding Parameter F Coordinates	g Activity required est Parameters	: Human, Vehicular & Pla : As per work order : NA Protocol IS 9989 - 1981 RA:202	Day 0	/ Time 58,3	
Surrounding Parameter F Coordinates No. 7 Leq	a Activity equired est Parameters Ambient Noise Quality Standa	: Human, Vehicular & Pla : As per work order : NA Protocol IS 9989 - 1981 RA:202 rds as per Noise Pollution (Regulation	Day 0	/ Time 58.3 00	Night Time 49,1
Surrounding Parameter F Coordinates No. 7	a Activity equired est Parameters Ambient Noise Quality Standa	: Human, Vehicular & Pla : As per work order : NA Protocol IS 9989 - 1981 RA:202	Day 0 and Control) Rules, 20	/ Time 58,3	Night Time 49,1
Surrounding Parameter F Coordinates No. 7 Leq Area Code	a Activity Required est Parameters Ambient Noise Quality Standa Cate	: Human, Vehicular & Pla : As per work order : NA Protocol IS 9989 - 1981 RA:202 rds as per Noise Pollution (Regulation egory of Area/Zone	Day on and Control) Rules, 20 Day Time	/ Time 58.3 00	Night Time 49,1) Lea* Night Time
Surrounding Parameter F Coordinates No. 7 Leq Area Code	g Activity sequired est Parameters Ambient Noise Quality Standa	Human, Vehicular & Pla As per work order NA Protocol IS 9989 - 1981 RA:202 rds as per Noise Pollution (Regulation egory of Area/Zone Industrial area	Day on and Control) Rules, 20 Day Time 75	/ Time 58.3 00	Night Time 49,1) Lea* Night Timu 70
Surrounding Parameter P Coordinates No. 7 Leq Area Code A	g Activity sequired est Parameters Ambient Noise Quality Standa	Human, Vehicular & Pla As per work order NA Protocol IS 9989 - 1981 RA:202 rds as per Noise Pollution (Regulation egory of Area/Zone industrial area Commercial area	Day or and Control) Rules, 20 Day Time 75 55	/ Time 58.3 00	Night Time 49.1) Lea* Night Time 70 55
Surrounding Parameter F Coordinates No. 7 Leq Area Code	g Activity sequired est Parameters Ambient Noise Quality Standa	Human, Vehicular & Pla As per work order NA Protocol IS 9989 - 1981 RA:202 rds as per Noise Pollution (Regulation egory of Area/Zone Industrial area	Day on and Control) Rules, 20 Day Time 75	/ Time 58.3 00	Night Time 49,1) Lea* Night Timu 70











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TC-1127

/10	DANT						10-11-0
(IE	KANI			ULR No.	2.1	TC112272400	0000476F
ampl	e Number : VTL/W/01			Report I	ło.	: VTL/W/24032	30001/A
lame	& Address of the Party ;	M/s Adani Power Limited		Format	No	; 7.8 F-01	
		Village- Chhote Bhandar, Post- Bade B		Party Ro	ference No	: NIL	
		Tehsil- Pussore Dist Raigarh 496100	Chnattisgarh	Report 0	Date	: 28/03/2024	
					of Analysis	; 23/03/2024-28	3/03/2024
		Water Sample		Receipt		: 23/03/2024	
		Amli Bhavan		Samplin	~	: 20/03/2024	
	방법 방법 방법 방법 사람이 다 가지 않는 것이 없다.	VTL Team Suitable Preservation		Samplin	g Type Quantity	: Grab	
1000		IS :3025		Coordin		: NA	
					L		00-2012
S.No	Test Parameters	Test Method	Resul	ts	Units	15:105	00-2012
						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)1984, RA 2017	"BLQ{""LO	Q-1.0)	NTU	1	5
2	Total Hardness (as CaCOS) 15: 3025 (P-21): 2000, RA 2019	228.3	4	mgn	200	500
4	Calours (as Ca)	45: 3025 (P- 40) 1991 RA 2019	55.4	P	mgß	精	200
ñ,	Total Alkalinity (as CaCO3	15. 3025 (P-23) 1985; RA 2018	192.4	8	mgn	300	1000
б.	Chiorioe (as Ci)	IS: 3025 (P-32): 1988, RA 2019	123.7	2	mgri	252	6061
7	Magnesium (as Mg).	IS: 3026 (P-46): 1994, RA 2019	21.8	9	ngn	80	100.
8	Total Dissolved Solids	IS 13025 (P-16): 1984, RA 2017	554 (T.	mą/i	1500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24) 1986, RA 2022	34.2	K.	mg/l	200	400
10	Flooride (as F)	APHA 23rd Edition ,4500FD 2017	0.62		m0/l	-16-	15
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	21.03	5	mg/i	49.0	No Relaxation
12	Iren (as Fe)	APHA 23/d Edition , 3111B,2017	0.35		ngil	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOO	2-0.03)	mg/l	0.03	0,2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LO	Q-0.2)	mg/l	0.5	3.0
15	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOC	2-0.001)	mg/l	0,001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.42	-	тgЛ	5.0.	150
17	Copper (as Cu)	APHA 23rd Edition 31118 2017	*BLQ(**LO	0-0.02)	- mgA	0-05	15
-							









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periene	RANI e the unimaginable e Number : VTL/W/01		ULR No Report I		TC112272400	
S.No.	Test Parameters	Test Method	Results	Units	IS:1050	00-2012
					Acceptable Limit	Permissible Limit
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	тдл	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 : 15155 : 2016	Absent	per 100 ml	Shail not be detectable in any 100 ml attmpto	
23	Amménia (da N)	15-3025 (P-34)- 1988,Sec. RA 2022	"BLQ(""LOQ-0.3)	uitti j	03	No Philochion
24	Sulphide	IS 3025 (P-29) (1986 RA 2019 Idometric	'BLQ("LOO-0.1)	mgA	0.05	bla Reisealian
28	Firm Residual Ghlonne	IS 3025 (P-20):2021	"DLQ(""LOQ-0.2)	mg/i	9.2	1.6
28	Faeca) Coliform	IS:1622 :1981 RA 2019	Abaont	MPN		

*BLO-Below Limit OF Quantification, **LOQ- Limit of Quantification ***End of Report***













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Report No.

: VTL/W/2403230001/B

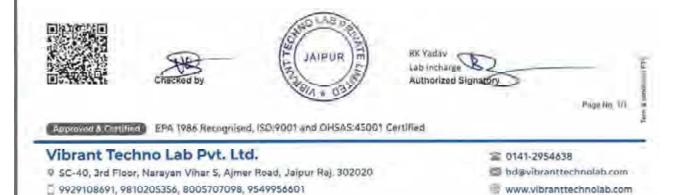


Experience the unmaginable Sample Number : VTL/W/01 Name & Address of the Party : N

							·		
Name	& Address of the Party	: M/s Adani P	ower Limited		Format	No	: 7.8 F-01		
			ote Bhandar, Post- Bade B	a lot in the second	Party Re	ference No	: NIL		
		Tehsil- Puss	ore Dist Raigarh 496100 (Chhattisgarh	Report I	Date	: 28/03/2024		
					Period o	of Analysis	: 23/03/2024-28	/03/2024	
Sampl	e Description	: Water Samp	ble		Receipt Date		: 23/03/2024		
Sampl	ling Location	: Amli Bhavan	: Amli Bhavan			g Date	: 20/03/2024		
Sampl	e Collected By	: VTL Team			Samplin	д Туре	: Grab		
Preser	rvation	: Suitable Pre	servation		Sample	Quantity	÷ 2 Ltr.		
Metho	d of sampling	: IS :3025			Coordin	ates	: NA		
S.No.	Test Parameter	5	Test Method	Resu	lts	Units	IS:105	00-2012	
							Acceptable Limit	Permissible Limit	
1	Colour	IS : 30	025:(P-4)1983, :RA 2017	"BLQ(""LC	Q-5.0)	Hazen	5	15	
7	Odota	15	3025 (P-5) RA 2016	Agrees	itsto		Agreentite	Agreeable	
3	Tasks	15 30	025 (P-8): 1984 RA 2017	Agress	bie	1040	Agreeable	Agreeable	
4	Cyamitte Las CNI		APHA 23rd Edition ,4500D,2017	*BLOP*LO	0-5.01	mq/l	0.02	No Relaxation	
5	Mineral OII	1	5 3025 (P-39) 1989	"BLQ(""LO	Q-0.05)	mgn	6.5	No Relaxation	
6	Anionic Detergents (as N	IBA5) AP	IA 23rd Edillion , 5540C 2017	*8LQ(**LO	(2-0.05)	mgil	112	10	
7	Berlum ka Cis	AP	IA 23rd Edition,31118	.aro(ro	(2-0 OZ)	mg/l	8.7	No relexation	

End of Report





Samp Samp Samp Prese	Vill Te ble Description : Wi bling Location : Vill ble Collected By : VT ervation : Su	s Adani Power Limited age- Chhote Bhandar, Post- Bade B hsil- Pussore Dist Raigarh 496100 ater Sample lage - Kathli L Team itable Preservation :3025	Contract of the second s	ULR No. Report No. Format No Party Reference N Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: 28/03/2024	30002/A
S.No. Test Parameters		Test Method	Resul	ts Units	IS:105	00-2012
					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("LO	Q-1.0) NTU		5
1	Total Hatdness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	176.8	2 mg/l	200	600
4	Callearn (a), Call	IS 3025 (P. 40) 1991 RA 2019	64,3	9 11111	10	.700
5	Total Alkalindy (as CaCO3)	15, 3025 (P-23) 1986, RA 2019	164,7	a mg/i	344	ອ້ນັ້ນ
6	Chlonde (as Ci)	IS: 3025 (P-32): 1988, RA 2019	117.5	1. mg/l	256	1000
*	Magnesiumi (us Mg)	IS: 3025 (P-48). 1994, RA 2019	9.99	ing/l	00	100
8	Total Dissolved Solids	18 (3025 (P-18) 1984, RA 2017	514.0	n mg/l	500	5000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	.31,22	2 mg/i	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.49	mg/l	4.0	7.6
11	Nitrate (as NO3)	18: 3025 (P-34): 1988	21.10	Npert 8	48.0	No Relaxation
17	(ron (as Fe)	APHA 23rd Edition , 31118,2017	0.31	mg/l	10	No Relaxation
13	Aluminium (as Al)	15 3025 (P-55): 2003, RA 2019	*BLQ(**LOC	2-0.03) mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	"BLQ(""LO	Q-0.2) mg/l	0.5	1.0
15	Phenolic Compounda (C6H5OH)	APHA 23rd Edition 5530C: 2017	.Bro(roo	0-0.001) mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B . 2017	0.44	тgЛ	50	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOG	0-0-02) mg/l	0.05	15
日本人でする	Chacked t	JAIPUR JAIPUR	MEL	RK Yaday Lab Incharge Authorized Sign	2 Mer	Paga No. 1/

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(ANTERNA





applance	# The unimaginable" # Number : VTL/W/02		ULR No Report		TG112272400 : VTL/W/240323	
S.No.	Test Parameters	Test Method	Results	Units	IS:1050	00-2012
					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)	тдЛ	0.01	0.05
21	Total Coliform	IS : 15185 : 2018	Absent	per 100 mi	Shall not be detectable in any 100 ml sample	-
22	E.Coli	15 : 15185 : 2016	Absent	per 100 ml	Shail not be detectable in any 100 ml sample	1
23	Antimonia (as N)	IS-3025 (P-34)- 1988,Sec. RA 2022	*BLQ(**LDQ-0,3)	mg/l	65	No Ralamber
24	Sulphiae	IS 3025 (P-29) -1966 RA 2019 Idometric	*BLQ(**LOQ-0,1)	ngil	0.05	No Rolexation
3E	Free Residual Chlorine	1S 3025 (P-26) 2021	*BLQ(**LOQ-0-2)	mg/l	0.2	7.0
26	Faecal Collorm	IS:1622.1981 RA 2019	Absent	MPN		

BLO-Below Limit Of Quantification "LOO- Limit of Quantification















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Report No.



Experience the unimagin Sample Number : VTL/W/02

Banum ≥s Ba

							· · · ·		
Name	& Address of the Party	: M/s /	Adani Power Limited		Format	No	: 7.8 F-01		
		10101010	ge- Chhote Bhandar, Post- Bade Bl	the second s	Party Re	eference No	: NIL		
		Tehs	il- Pussore Dist Raigarh 496100 0	Chhattisgarh	Report I	Date	: 28/03/2024		
					Period o	of Analysis	: 23/03/2024-28	/03/2024	
Sampl	e Description	: Wate	er Sample		Receipt	Date	: 23/03/2024		
Sampling Location : Village - Kathli					Samplin	g Date	: 20/03/2024		
Sample Collected By : VTL T			Team	Sampling Type :			: Grab		
Preservation : Suit			ble Preservation		Sample	Quantity	: 2 Ltr.		
Method of sampling : Is		: 15 :3	025		Coordin	ates	: NA		
S.No.	Test Parameters		Test Method		Results		IS:1050	00-2012	
						Acceptable Limit	Permissible Limit		
1.	Colour		IS : 3025.(P-4)1983, RA 2017	"BLQ("LC	99-5.0)	Hazen	6	14	
2	Odour		IS : 3025 (P-5) : RA 2018	Agrees	ble		Agreeable	Agreeable	
a	Taste		IS 3025 (P-8): 1984 RA 2017	Agnian	Brit .		Agreesola	Agreeable	
4	Cyanide (as CN)		APMA 23rd Edition ,45000,2017	18L0("LC	0.5.0)	mail	0.05	No Plenocation	
4	Minmal Dis		IS 3025 (P-39) 1989	*BLQ(**LO	Q-0.05)	mg/l	0.6	No Relavation	
\$	Anionic Detergents (as N	(BAS)	APHA 23rd Edition , 5540C 2017	arol.ro	Q-0.05)	/mg/4	0.0	1.0	

"BLQ-Below Limit Of Quantification, *1.0Q- Limit of Quantification

""End of Report""

APHA 23rd Edition;31118

2017

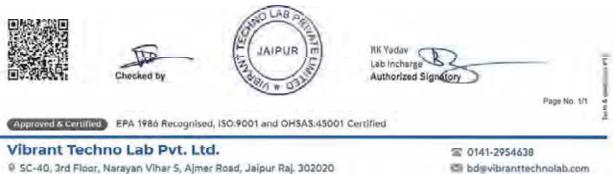


"BLQ(""LOQ-0.02)

mg/l

12.7

No miexation



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: VTL/W/2403230002/B

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		l	TEST REP	PORT				10 MM
Sampl Name Sampl Sampl Sampl Preser	e Description ing Location e Collected By vation d of sampling	: M/s Adani Power Limited Village- Chhote Bhandar, Tehsil- Pussore Dist Rai : Water Sample : Chote Bhandar : VTL Team : Suitable Preservation : IS :3025			ULR No. Format No. Party Refe Report Dat Period of A Receipt Da Sampling i Sample Qu Coordinate	rence No te Analysis tte Date Type Jantity	TC112272400 : VTL/W/240323 : 7.8 F-01 : NIL : 28/03/2024 : 23/03/2024 : 23/03/2024 : 20/03/2024 : Grab : 2 Ltr. : NA	30003/A
S.No.	Test Parameters	s Test Meth	bod	Result	ts	Units	IS:1050 Acceptable Limit	Permissible Limit
1	nH (at 25"C)	IS., 3025 (P-1.)) 2022	7.63		THE	8.5.10.8.5	No Relaxation
2	Turbidily	IS: 3025 (P-10)190	54, RA 2017	*BLQ(**LO	2-1.0)	NTU	1	- 4
3	Total Hardness (as CaCO	05) IS: 3026 (P-21): 200	09, RA 2019	199 83		mga	200	000
4	Catcium (as Ca)	IS: 3025 (P+40): 19	91 RA 2019	62.23		rog/)	18	290
6	Total Alkalinity (as CaCO	3) IS 3025 (P-23) 198	86, RA 2019	172.23	5	700g/l	200	300
6	Chlotide (as Cl)	IS: 3025 (P-32): 19	88, RA 2010	141,53	1	ngd	250	1000
7	Megnesium (as Mg)	18: 3025 (P-48): 198	94. RA 2019	10.53		mg/l	30	1.00
ð.	Total Dissolved Solids	15 3025 (P-16): 198	64, RA 2017	728.0		ng/l	3000	2000
0	Sulphote (as SO4)	IS: 3025 (P-24); 19	66, RA 2022	42.36	100	mig/T	200	400.
10	Fluoride (as F)	APHA 23rd Edillo 2017	n .4500/ D	0.52		mgil	1.0	IN .
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	26.22	-	ma/i	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Ed 31118,20		0.20		mpA	1.0	No Relaxation
33	Aluminium (an Al)	15 3025 (P-66); 200	3, RA 2019	"BLQ("1.00	(-6.03-)	(ng/)	0.03	220
14	Boron (as B)	APHA 23rd E 45008,20	Contraction of the local sectors of the local secto	*BLQ(**LO	2-0.2)	mg/l	0.5	1.0
15	Phenolic Compounds (C6H5OH)	APHA 23rd Editio 2017	m 5530C:	BLQ("LOQ	-0.001)	mg/i	0.001	0.002



16

17

Zinc (as Zn)

Copper (as Gu)

TEST REPORT



15.0

1.5

Page No. 1/2

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APHA 23rd Edition, 3030D.

3113 B , 2017 APHA 23rd Edition 3111B

2017

JAIPUR

0 \$2

0.38

*BLQ(**LOQ-0.02)

mg/l

mg/l

Authorized Signatory)

MK Yaday Lab incharge

Vibrant Techno Lab Pvt. Ltd.

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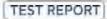
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pallent	e the unumorgination a Number : VTL/W/03		ULR No Report		: TC1122724000000478F : VTL/W/2403230003/A		
S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012		
					Acceptable Limit	Permissible Limit	
18	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	ng/i	6.1	0.3	
19	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/i	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 mi	Shail not be detectable in any 100 mi sample		
22	E.Coli	IS : 15185 : 2016	Absent	per 100 mi	Shall not be detectable in any 100 mi sample	-	
23	Ammenia (as N)	18-3025 (P-34)- 1988,8ec. RA :2022	"BLQ("LOQ-0.3)	ngn	0.5	No Helazation	
24	Sulphide	18 3025 (P-29) 1986 RA 2019 Idometric	*8LQ(**LOQ-0.1)	mg/)	0.05	No Retaxation	
25	Free Residual Chiorine	IS 3026 (P-20) 2021	*BLQ(**LDQ-0.2)	mg/i	6.2	5.8	
20	Faecal Coliform	15:1622:1991 RA 2019	Absent	MPM			

LQ-Below Limit Of Quantification. "LOQ-Limit of Quantification "End of Report"











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Mineral Dil

Anionic Delergents (as MBAS)

6

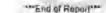
8

Sample Number : : VTL/W/2403230003/B VTL/W/03 Report No. Name & Address of the Party : M/s Adani Power Limited : 7.8 F-01 Format No Village- Chhote Bhandar, Post- Bade Bhandar, Party Reference No : NIL Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh Report Date : 28/03/2024 : 23/03/2024-28/03/2024 Period of Analysis : 23/03/2024 Sample Description : Water Sample Receipt Date Sampling Location Sampling Date : Chote Bhandar : 20/03/2024 Sampling Type Sample Collected By : Grab : VTL Team Sample Quantity : 2 Ltr. Preservation : Suitable Preservation : NA Method of sampling : 15 :3025 Coordinates IS:10500-2012 S.No. Units **Test Method** Results **Test Parameters** Acceptable Permissible Limit Limit Colour 15 1 3025:(P-4)1953. :RA 2017 "BLQ(""LOO-5.0) Hazen 16 IS 3025 (P-5) RA 2018 Odeur Agreeable Adtevable Agrovable -Tanta 18 3025 (P-8) 1984 RA 2017 Agreeablin Agereable -spreesble TR. Cyanide (as CN) APHA 23/d Edition *BLQ(**LQQ-5.0) 0.05 No Relaxation mg/l 45000.2017 IS 3025 (P-39) 1989

Barium as Ba APHA 23rd Edition 3111B "BLQ(**LOQ-0.02) 7 2017 *BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

APHA 23/d Edillon , 5540C

2017





"BLQ("LOQ-0.05)

"BLO(""LOO 0.05)

/mg/l

NINT

mg/l

73

9.7

0.1









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No Rolaxation

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No relexation

		TEST R					te-itz
Sample	RANT he he unimaginable Number : VTL/W/04 & Address of the Party	: M/s Adani Power Limited Village- Chhote Bhandar, Post- Bade Bi Tehsil- Pussore Dist - Raigarh 496100 (lo. lo ference No	2003-000-00	
Sampli Sample Preser	e Collected By vation	: Water Sample : Bade Bhandar : VTL Team : Suitable Preservation : IS :3025		Report D Period o Receipt Samplin Samplin Sample Coordin	f Analysis Date g Data g Type Quantity	: 28/03/2024 : 23/03/2024-28 : 23/03/2024 : 20/03/2024 : Grab : 2 Ltr. : NA	/03/2024
S.No.	Test Parameters	Test Method	Resul	Its	Units	IS:1050 Acceptable Limit	Permissible Limit
1	pH (at 25*C)	IS: 3025 (P-11): 2022	7.78			6.5 to 8.5	No Relaxation
2	Turnidity	15 : 3025: (P-10)1984, RA 2017	*BLQ(**LO	Q-1.0)-	NTU	111	5
3	Tolal Hardness (sa CaCO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	235.5		mg/l	202	000
4	Calcium Ias Cal	15: 3025 (P-40) 1991 RA 2019	63.25	9	Turn .	78	2480
n	Total Albumny (as CaCO)	3) 13. 3025 (P-23) 1986, RA 2019	173.5	5	mg/l	200	600
6	Chlorida (as Ci)	IS: 3025 (P-32): 1988, RA 2019	161.9	1	mg/l	2%	1000
7	Magnesium (se Mg)	IS: 3025 (P-46): 1994, RA 2019	18.8	5	mgf	40.	1007
8	Total Usselved Solids	/S :3025 (P-16); 1984, RA 2017	611.0	7	mp/i	500	2000
9	Sulphate (as SO4)	15: 3025 (P-24): 1986, RA 2022	34.9	5	mg/l	200	400
10	Fluoride (as F)	APHA 23/d Edition ,4500FD - 2017	0.48	r	Nem-	1.0	1.6
11	Nitrate (as NO3)	IS 3025 (P-34): 1988	21.8	4	night	45.0	No Relaxation
12	fron (all Fe)	APHA 23rd Edition . 3111B,2017	0.23	UN.	mg/i	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55); 2003, RA 2019	*BLQ(**LOC	2-0.03)	mg/i	0,03	0,2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LO	Q-0.2)	mg/l	0,5	1.0
15	Phenolic Compounds (C6H5OH)	APNA 23rd Edition 5530C: 2017	.Bro(roc	0-0.001)	mg/l	0.001	0.002
16	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.39		tng/l	50	15.0
17	Copper (as Cu)	APHA 23rd Edition 3111B 2017	"BLQ(""LO	0-0.02)	mg/l	0.05	1.5







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Derinar	e Number : VTLW/04		ULR No Report I		TC1122724000000479F : VTL/W/2403230004/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		
ZZ	E.Cox	15 : 15185 : 2016	Absent	per 100 mf	Snak not be detectable in any 100 ml sample		
23	Ammonia (as N)	IS-3025 (P-34)- 1688,Sac RA -2022	*BLQ(**LOQ-0.3)	mg/l	25	No Relaxation	
24	Sulphide	IS 3025 (P-29) 1985 RA 2019 Idometric	*8LQ(**LOQ-0.1)	ing/l	0.05	No Relaxation	
25	Free Residual Chlorina	IS 3025 (P-26) 2021	"BLQ(""LOQ-0.2)	mg/l	07	1.0	
26	Faecal Goldonn	IS 1622 1951 RA 2019	Abaunt	MPN	-		

LQ-Below Limit Of Quantification, "LOQ+ Limit of Quantification

End of Report











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Q 9929108691, 9810205356, 8005707098, 9549956601

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- S bd@vibranttechnolab.com
- www.vibranttechnolab.com

Report No.

Format No

Report Date

Party Reference No : NIL

: VTL/W/2403230004/B

: 7.8 F-01

: 28/03/2024

00

0.7

700/

mail

1.0

No relaxation



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

				Period of	of Analysis	: 23/03/2024-28	/03/2024	
Sample	e Description	: Wat	er Sample	Receipt Date		: 23/03/2024		
Sampl	ing Location	: Bad	e Bhandar	Sampling Date : 20/03/2024				
Sampl	ple Collected By : VTL Team Sam		Sampling Type : Grab					
Preser	vation	: Suit	able Preservation	Sample Quantity : 2 Ltr.				
Metho	d of sampling	: IS :3	025	Coordin	ates	: NA		
S.No.	Test Paramo	eters	Test Method	Results	Units	IS:105	00-2012	
						Acceptable Limit	Permissible Limit	
1	Colour		IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	tő	
2	Odous		IS : 3025 (P-5) : RA 2018	Agreeable	-	Agreesule	Aureestile	
3	Tasie		IS :3025 (P-8): 1984 RA 2017	Agroeable		Agneosible	Agreadow	
4	Cyanide (as CNI		APHA 23rd Edition 4500D 2017	*BLQ(**LOO-5.0)	mgri	0.05	No Retaxation	
5	Mineral D//		15 3025 (1-39) 1989	BLQ("LOQ-0.05)	nun	32.6	No Relaxation	

Banum as Ba
 APHA 23rd Edition,3111B *BLQ(**LOO-0.02)
 2017

 7BLQ-Bolow Line Of Quantification, **LOQ- Line of Quantification

APHA Z3rd Edition , 5540C

2017

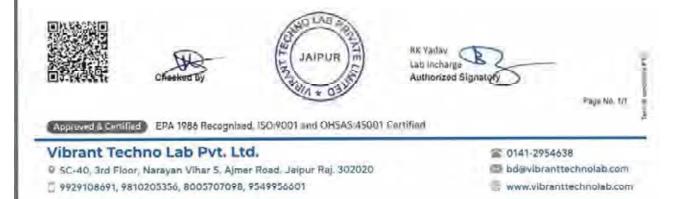
End of Report

Anionic Detergents (an MBAS)

a



'BLQ("LOQ-0.05)





Sample Description

Sampling Location

Sample Collected By

Method of sampling

Colour

Odour

Tasto

Cyanide (as CN)

Mineral Oil

Bonum es Ba

Preservation

S.No.

2

8

4

5

15

2

Sample Number : VTL/W/10 Name & Address of the Party : M/s Adani Power

Test Parameters

Anionic Detergents (as MBAS)

i i			Report I	lo.	: VTL/W/24032	30010/B
: M	/s Adani Power Limited		Format	No	7.8 F-01	
	llage- Chhote Bhandar, Post- Bade Bh		Party Re	ference No	: NIL	
Te	hsil- Pussore Dist Raigarh 496100 (Chhattisgarh	Report (Date	: 28/03/2024	
			Period o	of Analysis	: 23/03/2024-28	1/03/2024
: W	ater Sample		Receipt	Date	: 23/03/2024	
: Pi	azometer -2		Samplin	o Date	: 20/03/2024	
: V1	TL Team		Samplin	g Type	: Grab	
: St	uitable Preservation		Sample	Quantity	2 Ltr.	
: IS	:3025		Coordin	ates	; NA	
s	Test Method	Resu	lts	Units	IS:105	00-2012
					Acceptable Limit	Permissible Limit
	IS: 3025 (P-4) 1983, :RA 2017	"BLQ(""LO	Q-5.0)	Hazen	5	15
	15 . 3025 (P-5) . RA 2018	Адгева	b)er.		Aproable	Agreemble
	15:3025 (P-8) 1984 RA 2017	Agreea	bie	-	Agragable	ADreadure
	APHA 23/2 Edition A500D.2017	'BLO("LO	Q-5.0)	mail	0.05	No Remyation
	13 3025 (P-39) 1989	BLQ("LO	2-0.051	mg/i	0.5	No Relaxation

2017 "BLQ: Below Limit Of Quantification. "LOQ- Limit of Quantification

End of Report

APHA 23rd Edition , 5540C

2017

APHA 23rd Edition,3111B



"BLO(""LOQ-0.05)

*BLQ(**LOG-0.02)







RK Yadav Lab incharge Authorized Signatery Page No. 1/1

0.0

9.7

man

mg/F

10

Novelaxation

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1		TEST R	EPORT				A CONTRACTOR
Sampl Sampl Sampl Sampl Sampl Preser	e Description ling Location e Collected By vation d of sampling	W/s Adani Power Limited Village- Chhote Bhandar, Post- Bade B Tehsil- Pussore Dist Raigarh 496100 (Water Sample : Piezometer -3 : VTL Team : Suitable Preservation : IS :3025	Chhattisgarh	Report D Period o Receipt Samplin Samplin Sample Coordin	No. No ference No Date If Analysis Date g Date g Date g Type Quantity ates	: 28/03/2024 ; 23/03/2024-28 : 23/03/2024 : 23/03/2024 : 20/03/2024 : Grab : 2 Ltr. : NA	3001 I/A 1/03/2024
S.No.	Test Parameters	Test Method	Resu	its	Units	Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.7	4	- 77	6.5 to 8.5	No Relaxation
2	Turhidily	IS 3025: (P-10)1984, RA 2017	*BLQ(**L(0.1.0	WYW	T	
3	Total Hardness (as CaCO	3) IS: 3025 (P-21): 2009, RA 2019	295	0	/ng/i	200	800
4	Galaium (as Gal	18 3025 (P- 40) 1901 RA 2010	72.3	51	ng/î	75	200
ð.	Total Alkalinity (as CaCO)) IS 3025 (P-23): 1986, RA 2019	177.4	49	mg/(200	500
6	Chlinde (as Cl)	IS 3026 (P-32) 1988, RA 2019	152.3	39	mg/4	250	1000
7	Magnesium (its Mg)	IS: 3025 (P-46): 1994/ RA 2019	27.8	4	mg/l	30	100
ð	Total Dissolved Solids	15 .3025 (P-16) 1984, RA 2017	612	0	mg/l	500	2000
0	Sulphula (as \$04)	IS: 3025 (P-24), 1986, RA 2022	42.7	1	mgri	200	400-
10	Fluoride (as F)	APHA 23rd Edition (4500PD 2017	0.51	5	-mg/l	10	1.6-
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	28.4	9	mail	45.0	No Relaxation
12	lton (as Fe)	APHA 23/6 Edition , 31110,2017	0.30	5	mg/l	1,0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55) 2003, RA 2019	*BLQ(**LO	2-0.03)	mg/l	0.03	0.5
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	BLO(**LC	00-0-2)	mg/t	0.5	1.0
15	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOC	2-0.001)	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(**LO	Q-0.02)	mg/l	0.05	1.5











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Alexandress and a second secon			ULR No Report		TC1122724000000485F ; VTL/W/2403230011/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/I	0.01	0.05	
21	Total Coliform	IS : 15185 : 2016	Absent	per 100 mi	Shall not be detectable in any 100 ml sample		
22	E.Con	15 : 15165 : 2016	Absent	per 100 mi	Shali not be detectable in any 100 ml sample	-	
52	Ammonia (as N)	IS-3025 (P-34)- 1988, Sec. RA 2022	*BLQ(**LOO-0.3)	- 60m	6.6	No Rolamba	
24	Sulphide	IS 3025 (P-29) 1986 RA 2019 Idometric	"BLQ("LOO-0.1)	Pipm -	0.05	No Rolaxetion	
25	Free Residual Ghlonne	IS 3025 (P-26):2021	"BLQ("'LOQ-0.2)	mg/l	14	1.0	
25	Faecal Coliform	IS 1622 1981 RA 2019	Absent	MPN			

End of Report





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Sampl	RANT				Report !	ło.	: VTL/W/24032	20011/B	
Vill		Villag	ge- Chhote Bhandar, Post- Bade Bhandar, P		Format No Party Reference No		, YAFIOT ; NIL		
	e Description ing Location		r Sample		Report Date : 28/03/2024 Period of Analysis : 23/03/2024-28/03/2024 Receipt Date : 23/03/2024 Sampling Date : 20/03/2024		03/2024		
Sample Collected By : VTL			ble Preservation					(arts	
S.No.	Test Parameters	arameters Test Method		Results		Units	IS:10500-2012		
							Acceptable Limit	Permissible Limit	
1.	Colour	0.10	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LC	Q-5.0)	Hazen	ŝ.	16	
2	Odour		IS : 3025 (P-5) RA 2018	Agrasa	bia		Agrenabla	Agremable	
ä	Table		15 (3025 (P-8): 1984 RA 2017	Agrees	ble	1	Agreesble	Agreeable	
4	Cyanida (as CN)		APHA 23/d Edition ,45000,3017	.Brot.ro	0.6.0)	-mg/l	0.05	No Relaxatio	
8	Mineral Oli		(S 3025 (P-39) 1989	"BLQ("LO	2-0.05)	mg/l	0.5	No Relaxation	
8	Anionio Delergenta Im M	BAS)	APHA 23rd Edillon , 5540C 2017	"BLQ("LO	2-0.05)	mg/l	0.5	tđ	
7	Barium as Ba		APHA 23rd Edition,31118 2017	*BLQ(**LO	2-0.02)	hgm	· 0.7	Novelaxation	



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Chacked by	R His Yadav Lab tocharge Authorized Signatory

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		L TEST R	EPORT				Les l
Name Sampl Sampl Sampl Preser	e Description : W ing Location : Pi e Collected By : V vation : St	Adani Power Limited age- Chhote Bhandar, Post- Bade Bhandar, nsil- Pussore Dist Raigarh 496100 Chhattisgarh ter Sample zometer -4 L Team table Preservation 3025		ULR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates		 TG1122724000000487F VTL/W/2403230012/A 7.8 F-01 NIL 28/03/2024 23/03/2024 23/03/2024 20/03/2024 Grab 2 Ltr. NA 	
S.No.	Test Parameters	Test Method	Resu	lts	Units	IS:105	Permissible Limit
1	pH (at 25*C)	IS: 3025 (P-11): 2022	7.84		~	6.5 10 8.5	No Relaxation
2	Twoidily	IS : 3025: (P-10)1084, RA 2017	*8LQ(**LDG-1.0)		NTU _	1	3
3	Total Hardness (as GaCO3)	15: 3025 (P-21): 2000, RA 2019	246.0		mg/i	2530	THUN
4	Galcium (as Ca)	IS: 3025 (P-40); 1991 RA 2019	64.03		mg/l	. 15	200
5	Total Alkalimity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	152.38		nigri	200	n03
6	Chloride (as Cl)	18: 3025 (P-32): 1888, RA 2010	146.53		/09/1	200	1000
1	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	20.95		ng/l	50	100
8	Total Dissolved Solids	15 :3025 (P-16): 1984, RA 2017	590.0		mgiî	800	2000
9	Sulphate (as SO4)	15: 3025 (P-24): 1986, RA 2022	38,43		mma/8	200	400
10	Fluonde (as F)	APHA 23/6 Edilion ,4500FD .2017	0.59		mayl	1.0	1.47
17	Nitrate (as NO3)	18: 3025 (P-34) 1988	22,28		ing/l	45 D	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.42		mg/l	10	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)		/mg/i	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)		mgil	0.5	1.0
10	Phonolic Compounds (C6H5OH)	APHA 23rd Edition 6630C; 2017	*BLQ(**LOQ-0.001)		mðu	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) ing		ing/l	0.05	1.5











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and the first	RANT a the unimaginable" a Number : VTL/W/12		ULR No Report		TC112272400 ; VTL/W/24032	
S.No.	Test Parameters	Test Method	Results	Units	IS:105	00-2012
					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	É.Car	15 : 15165 : 2016	Absent	per 100 ml	Stree not be detectable in any 100 ml sample	۳.
23	Ammonia (as N)	IS-3025 (P-34)- 1985,Sec. RA -2022	*BLQ(**LOQ-0.3)	ngđ	0.5	No Belavalior
24	Sulphide	IS 3025 (P-29) (1986 RA 2019 Idemetrie	*BLQ(**LDQ-0.1)	mpit	- Crips-	No Rolanstion
25	Free Residual Chlonno	IS 3025 (P-25):2021	"BLQ(""LOQ-0.2)	mgit	0.2	1.0
26	Faecal Coliform	IS:1622:1981 RA 2019	Absent	MPN		- T

End of Report













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Report No.



Sample Number : VTL/W/12 Name & Address of the Party : M/s Adani Power Limited

Vame	& Address of the Party	: M/s A	dani Power Limited	wer Limited Format No			: 7.8 F-01		
		Village- Chhote Bhandar, Post- Bade Bhandar, Tehsil- Pussore Dist Raigarh 496100 Chhattisgart				ference No	: NIL		
		Tehsi	I- Pussore Dist Raigarh 496100 (Chhattisgarh	Report 1	Date	: 28/03/2024		
				Period of Analysis			: 23/03/2024-28	/03/2024	
Samp	le Description	ription : Water Sample				Date	: 23/03/2024		
Samp	ling Location	: Piezo	meter -4		Samplin	g Date	: 20/03/2024		
Samp	le Collected By	: VTL 1	Геат		Samplin	-	: Grab		
Prese	rvation	: Suital	ble Preservation		Sample	Quantity	12 Ltr		
Metho	od of sampling	: IS :30	025		Coordin	ates	; NA		
S.No	Test Parameter	5	Test Method	Resu	lts	Units	IS:1050	10500-2012	
							Acceptable Limit	Permissible Limit	
1	Colour	-	IS . 3025 (P-4)1983, RA 2017	.Bro(ro	XQ-5.())	Hazen	15	15	
2	Odoor		(6 : 3025 (P-5) RA 2018	Agreen	old	3	Agronobily	Agreeshie	
ñ	Takk.		IS :3025 (P-8): 1984 RA 2017	Agrees	ible .	12.7	Agreentole	Abieeable	
A	Cyanide (as CN)		APHA 23rd Edition ,4600D,2017	*BLQ(**LC	02-5.0)	ninti	0,05	No Relaxality	
h -	Mineral Oil		IS 3025 (P-39) 1989	*BLQ(**LO	Q-0.05)	mg/t	0.5	No Relaxation	
ô	Anionic Detergents (as M	(BAS)	APHA 23rd Edition , 5540C 2017	"BLQ(""LO	Q-0.05)	ngñ	n.9	10	
7	Banum as Ba		APHA 23rd Edition,31118 2017	*BLQ(**LO	Q-0.02)	mg/l	0.7	No relaxation	

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





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VTL/WL/01 Report No.: VTL/WL/2403230001-03 Name & Address of the Party: M/s Adam Power Limited Format No.: 7.8 F-01 Village -Chhote Bhandar,Post - Bade Party Reference No.: NIL Bandar, Tehsil Pussore, Dist-Raigarh Report Date: 28/03/2024 496100 (Chhattisgarh) **Receipt Date:** 23/03/2024 **Date of Monitoring** 20/03/2024

Sample Collected By Sample Description:

Sample Number:

VTL Team Ground Water Level Monitoring

S.No. 1. 2.	Location	Depth (In meter)
1.	Piezometer Well No 02	1.42
2.	Piczometer Well No 03	1.91
3.	Piezometer Well No 04	3.86



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xperiènce t				ULR No.	: TC112272 : VTL/W/24	40000000488F
	Number: VTL/SW/0	Contra Marcala de Colories	Income I institud	Report No.	1.0000000000000000000000000000000000000	03230013/A
Name &	Address of the Party		oote Bhandar, Post- Bade Bhandar,	Format No Party Reference No	: 7.8 F-01	
			sore Dist Raigarh 496100 Chhattisgarh		: 28/03/202	
				Report Date	: 23/03/202	
Samole	Description	: SURFACE	WATED	Period of Analysis Receipt Date	: 23/03/202	
10.000	g Location	: Mahanadi D		Sampling Date	: 20/03/202	
	Collected By	: VTL Team	Unit Suball	Sampling Type	: Grab	-
Preserva		: Suitable Pre	servation	Sample Quantity	: 2 Ltr.	
Method	of sampling	: 18:3025		Coordinates	: NA	
S.No.	Test Param	eters	Test Method	Resu	ilts	Unit
1 0	H value		IS: 3025 (P-11): 2022	7.4	9	
2 T	urbidily	_	IS: 3025 (P-10): 1984, RA 201)	/ 3.3	7	NIU
3 T	otal Dissolved Solids (T	DS)	IS : 3025 (P-16) : 1984, RA 2017	452	0	Ngm
1 0	hioride (as CI).		IS: 3025 (P-32) : 1958, RA 2019	56.8	34	mail
S	WINNING as (SO4)		15: 3025 (P+24) - 1986, Sec RA 20	27 26.3	4	men
5 T	olai Alhainity (as CaCC	23)	IS 3025 (P-23) 1986, RA 2019	118	92	tria/i
7 7	etal Hardness (CaCO3)		15: 3025 (P-21) 2008, RA 2019	171.	31	Ngm
5 0	alcium (as Ca)		18 3025 (P-40) : 1991 RA 2019	47.8	16	71927
9 N	lagnesium (as Mg)		15: 3025 (P-46): 1994, RA 2019	12.5	50	(100/)
tii F	laoride (as F)		APHA 23rd Edition, 4500D, 2017	D.4	5	ingriv.
11 N	itrata (as NO3)		18: 3025 (P- 34) 1968 RA 2022	17.6	0	mpt
12 P	henolic compounds		APHA 23rd Edition, 5530C, 2017	"BLQ(""LO	0-0.031	10(82/1
11 F	ecal Collorm		IS:1622:2009	Ples	arit	MPN
1a T	oral Coliform		IS 15185; 2016	Fres	ะเห	MPN.
16 10	on (as Fe)		APHA 23/d Edition,31118, 2017	03	1	rauh
16 2	inc (as Zn)		APHA 23rd Edition, 3030D,3113E 2017	3. 0.4	7	TIMET
17 0	opper (as Cu)	-	APIIA 23rd edition; 31118, 2017	-arok-ro	0-0.07	maj
18 N	langanese (as Mn)	· · · E	APHA 23rd Edition, 3030D,3113B 2017	BLQ(**LC	Q-0.05}	mg/l
A PI	rsenic (as As)		APHA 23rd Edition. 3030D.31140 2017	*BLQ(**LO	0-0.0051	ngn
20 E	Coli		18 :15185 : 2016	Pres	eņt	P-A/100 ML
21 B	oron (as B)		APHA 23rd Edition, 4500D, 2017	*BLQ(**L0	(2.0-0	mig/)
22 S	elenium (as Se)		APHA 23rd Edition,3114C, 2017	*BLO(**LO	Q-0.005)	mg/l









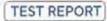


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Sample Number : : VTL/W/2403230013/B VTL/SW/01 Report No. Name & Address of the Party : M/s Adani Power Limited : 7.8 F-01 Format No Village- Chhote Bhandar, Post- Bade Bhandar, Party Reference No : NIL Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh Report Date : 28/03/2024 Period of Analysis : 23/03/2024-28/03/2024 Sample Description Receipt Date : SURFACE WATER : 23/03/2024 Sampling Date Sampling Location : Mahanadi Down Stream : 20/03/2024 Sampling Type Sample Collected By : Grab : VTL Team Sample Quantity Preservation : 2 Ltr. : Suitable Preservation Method of sampling : NA : 15:3025 Coordinates S.No. Test Method Results Unit Test Parameters IS: 3025 (P-4): 2021 *BLQ(**LOQ-5.0) Colour Hazon IS: 3025 (P-5): 2018 Odour Agreeable 5 -3 Taste IS : 3025 (P-8) : 1984 RA 2017 Agreeable IS: 3025 (P-26):2021 BLO(**LOG-0.2) Residual Free Chlorine (RFC) mail 101.00"1.00-5 0) Cyauste (as CN) APHA 23/8 E0/600, 4500D, 2017 mgn Atuminium (as AS IS 3025 (P-55) 2003, RA 2018 "BLQ(""LOQ-0.03) man "BLQ("LOQ.0.3) Ammonia (as NH3) IS 3025 (P-34) 1988, Sec.4 RA 2019 ungá

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

Anionic Detergents (MBAS)

8

End of Report

APHA 23rd ed., 2017, 55300









BLO("100 0.05)

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L			TEST REPORT			33
Sampl	Address of the Party	Mis Adam P	ower Limited ote Bhandar, Post- Bade Bhandar,	ULR No. Report No. Format No	: VTL/W/240 7.8 F-01	
Sample Description : SURFACE WAT Sampling Location : Mahanadi Up St		Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh escription : SURFACE WATER		Party Reference No Report Date Period of Analysis Receipt Date Sampling Date	; 28/03/2024	
Prese	le Collected By rvation of of sampling	: VTL Team : Suitable Pre : IS :3025	servation	Sampling Type Sample Quantity Coordinates	: Grab : 2 Ltr. : NA	
S.No.	Test Param	oters	Test Method	Resu	ults	Unit
1	pH value		IS: 3025 (P-11): 2022	7.7	3	-
2	Turbidity		IS : 3025 (P- 10) : 1984, RA 201	7 4.6	9	NTU
3	Total Dissolved Solids (T	DS)	IS : 3025 (P-16) : 1984, RA 2017	387	.0	mg/l
4	Chloride (as Cl)		18: 3025 (P-32) : 1988, RA 2019	66.3	38	mg/l
6	Bulphate as (SO4)		15: 3025 (P-24) 1956, Sec. RA 20	27 33	12	1000
0	Total Alkalanty (as CaCo	23)	IS: 3025 (P-23) 1955, RA 2010	334	28	mult
2	Total Hardness (CaCO3)	15: 3025 (P- 21) 2009, RA 2019	195.	63	10 <u>10</u> 1
8	Calcium (as Ca)		IS : 3025 (P-40) : 1991 RA 2010	34.1	18	ntg/l
9	Magnesium (az Mg)		IS : 3025 (P-45) 1994, RA 2015	17.0	09	m/s/t
10	Fluonde (as F)		APHA 23rd Edition, 4500D, 2017	0.5	8	-nigiti -
11	Nitrate (as NO3)		IS: 3025 (P- 34) : 1988 RA 2022	243	57	n(g))
12	Phenolic compounds		APHA 23/d Edition, 5530C, 2017	"BLQ("'LU	(1.99.0-D)	0.997
13	Fecal Colion		18:1622:2009	Pies	ent-	MPN
14	Total Coliform		IS 15185; 2016	Pron	0.01	MPN
15	Iron (as Fe)		APHA 23rd Edition,3111B, 2017	.0.3	07	-78 <u>0</u> A
10	Zinc (as Zn)		APHA 23rd Edition, 3030D,31130 2017	B0.5	32	filem
17	Copper (as Cu)		APHA 23rd edition, 3111B, 2017	7 *BLQ(**L0	0.021	-mg/l
18	Manganese (as Mn)	19E)	APHA 23rd Edition, 3030D,31130 2017	BLQ(**L0	00-0.05)	mg/i
19	Arsenic (as As)		APHA 23rd Edition, 3030D,3114 2017	C, "BLQ("LC	0Q-0.005)	mgil
20	E.Coll		15 15185 2010	Pres	idină	P-AVIOU ML
21	Boron (as B)		APHA 23rd Edition, 4500D, 2017	7 "BLQ(**L	00-0.2)	ីញា
22	Selenium (as Se)		APHA 23rd Edition,3114C, 201	7 *BLQ(**LC	Q-0.005)	ing/l











Page No: 1/2

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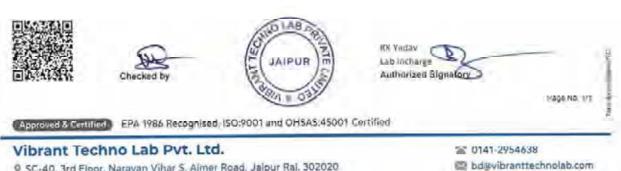
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P MA		Tool Mathed	Peet	law	1 Loll
Method of sampling	: 18 :3025		Coordinates	: NA	
Preservation	: Suitable Preservati	on	Sample Quantity	:240	
Sample Collected By	: VTL Team		Sampling Type	: Grab	
Sampling Location	: Mahanadi Up Stree	uni -	Sampling Date	: 20/03/2024	
Sample Description	SURFACE WATER	2	Receipt Date	: 23/03/2024	
			Period of Analysis	: 23/03/2024-2	28/03/2024
	Tensil- Pussore Dit	st Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024	
		andar, Post- Bade Bhandar,	Party Reference No	; NIL	
Name & Address of the Party	; M/s Adani Power L		Format No	: 7.8 F-01	
VIBRANT Experience the unimoginable Sample Number : VTL/SW/0	2		Report No.	: VTL/W/2403	230014/B
		[TEST REPORT]			
		TECT DEDODT			

5.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen
2	Odour	18 : 3025 (P-5) : 2018	Agreeable	
3	Taste	IS: 3025 (P-8): 1984 RA 2017	Agreeable	<u></u>
4	Residual Free Chlorine (RFC)	IS : 3025 (P-26) :2021	*BLD(**LOO-0.2)	ngh
0	Cyanide (da GN)	APHA 23rd Edition: 45000, 2017	-BLQ(LOQ-5,0)	ham
8	Aleminum (as Al)	IS: 3025: (P-85) 2003, RA 2010	-BLO(**LOO 0.03)	raga
7	Ammonia (as MH3)	IS 3025 (P-34) 1988. Sec.4 RA 2019	*BLQI**LQQ(#.3)	າເຊິ່າ
8	Anionic Detergents (MBAS)	APHA 23rd ed., 2017, 55300	"BFD(.,FOG 6 09)	mæ(l

"BLO Blow limit of Quantification "LOQ Limit of Quantification

End of Report



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/IE	RANT			ULR No.	: TC112272	4000030490F
Samp	le Number: VTL/SW/0	3		Report No.	+ VTL/W/24	Carrier Party Carrier
and a	& Address of the Party	: M/s Adani P	ower Limited	Format No	: 78 F-01	
1			ote Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL	
		Tehsil- Pust	sore Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024	e
				Period of Analysis	: 23/03/2024	4-28/03/2024
Samp	le Description	: SURFACE	WATER	Receipt Date	: 23/03/2024	ŧ.,
Samp	ling Location	: Mand River	Down Stream	Sampling Date	; 20/03/202/	6
	le Collected By	: VTL Team		Sampling Type	Grab	
	rvation	! Suitable Pre	eservation	Sample Quantity	:2 (1).	
	od of sampling	: IS :3025		Coordinates	: NA	1
S.No.	Test Param	eters	Test Method	Resu		Unit
1	pH value		IS : 3025 (P-11) : 2022	7,75	C	**
2	Turbidity		IS: 3025 (P- 10): 1984, RA 201			NTU
3	Total Dissolved Solids (T	DS)	IS : 3025 (P-16) : 1984, RA 2017	401.	36	mg/l
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 2019	67.5	3	mg/l
5	Sulphate as (SO4)		IS: 3025 (P- 24) : 1986.Sec.RA 20	22 35.7	3	ing/l
0	Total Amalinity (as CaCO	03)	16: 3025 (P-23) 1986, RA 2015	114.3	77	~1400g r
7	Total Hardness (GaCO3	5	IS: 3025 (P- 21) : 2009, RA 2019	189.	68	mp/i
8	Calcium (as Ca)		IS 3025 (P-40) 1991 RA 2018	510)s	mg/1
9	Magnosium (as Mg)		IS : 3025 (P- 46) : 1904, RA 201	9 15.1	12	ngil
10	Fluoride (as F)		APHA 23rd Edition, 45000, 2017	0.7	9	.ingri
11	Nitrate (as NO3)		IS: 3025 (P- 34) - 1985 RA 2022	29.8	99	-mg/l
12	Phenolic compounds		APHA 23rd Edition. 5530G. 2017	*BLQ(**LO	Q-0.001)	1991
13	Fecal Coliform		13 1622 -2009	Pays	ent	MPN
14	Total Geliform		IS 15185-2016	Pros	Ina	MPN
15	(ron (as Fe)		APHA 23rd Edition,3111B, 2013	0,4	3	(1982)
tō	Zinc (as Zn)		APHA 23rd Edition, 3030D,31130 2017	B, 0.6	1	ngh
17	Copper (as Cu)		APHA 23rd edition, 31118, 2017	.Broth.rd	00-0-097	៣ផ្នាំ
18	Manganese (as Mn)	-6	APHA 23rd Edition, 3030D,3113 2017	B, *BLO(**LO	00-0.05)	mg/l
19	Arsenic (as As)		APHA 23rd Edition, 3030D,3114 2017	C, *BLQ(**LO	Q-0.005)	mg/l
20	E Coli		IS :15185 : 2016	Pres	ent.	P-A/100 ML
21	Boron (as B)		APHA 23rd Edition, 4500D, 201	7 *BLQ(**L	00-0.2)	mg/l
22	Salanium (as So)		APHA 23rd Edition,3114C, 201	7 *BLQ(**LO	Q-0.005)	mail



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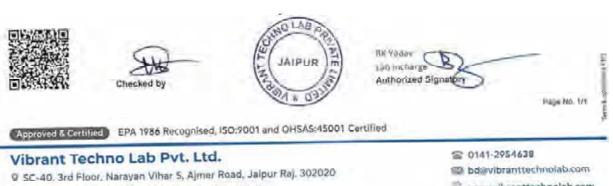
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_	RANT		TEST REPORT			
Sample	e Number : VTL/SW/0			Report No.	: VTL/W/24)3230015/B
Tehsil- Pusson Sample Description : SURFACE WA			Format No	- 7.8 F-01		
		Tehsil- Possore Dist,- Raigarh 496100 Chhattisgarh Report Date		Party Reference No		
				212 PT 22 A 31 PT 23 A 31	: 28/03/2024	
			Period of Analysis Receipt Date	: 23/03/2024-28/03/2024 : 23/03/2024 : 20/03/2024		
		: SURFACE W	SURFACE WATER Mand River Down Stream			
		: Mand River I				
Sampl	e Collected By	By : VTL Team		Sampling Type	Grat	
Preser	rvation	i Suitable Pres	servation	Sample Quantity.	: 2 Lfr	
Metho	d of sampling	: 15 :3025		Coordinates	: NA	_
S.No.	Test Param	neters	Test Method	Resu	ults	Unit
1	Colour		IS: 3025 (P-4) 2021	*BLQ(**L	00-5.0)	Hazen
2	Odour		IS: 3025 (P-5): 2018	Agree	able	-
3	Taste		IS: 3025 (P-6): 1984 RA 2017	Agree	able	-
4	Residual Free Chlorine (RFC)	IS: 3025 (P-26) :2021	*BLQ(**L	00-0.2)	night
6	Cyanide (as CN)		APma 33rd Edition, 4500D, 2017	"BLOI"L	00-5.0)	. mgil'
	Aluminium (as Al)	-	IS: 3025 : (P-55) 2003, RA 201		160 0-01	20201
6.			15 : 3025 (P-34) 1988, Sec.4 RA 2		(2.0-0.0)	- 00001
-	Amonoma (as NH2)					

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

End of Report



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/IB	RANT			ULR No.	1 TC112272	4000000491F
Sample	e Number : VTL/SW/0	14		Report No.	: VTL/W/240	03230016/A
	& Address of the Party	: M/s Adani Pow	ver Limited	Format No	: 7.8 F-01	
	120		e Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL	
		Tehsil- Pussor	e Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024	
				Period of Analysis	: 23/03/2024	4-28/03/2024
Sample	e Description	SURFACE WA	TER	Receipt Date	: 23/03/2024	£
Sampl	ing Location	: Mand River Up	Stream	and the second second	: 20/03/2024	4
Sampl	e Collected By	: VTL Team		Sampling Type	1 Grafe	
	vation	: Suitable Prese	rvation	Sample Quantity	7 2 Lt/.	
Metho	d of sampling	: IS :3025		Coordinates	:NA	
S.No.	Test Param	ieters	Test Method	Resu		Unit
1	pH value		IS: 3025 (P-11): 2022	7.6		
2	Turbidity		18 : 3025 (P-10) : 1984, RA 201			NTU
3	Total Dissolved Solids (T	OS)	IS : 3025 (P-16) : 1984, RA 2017			rrig/1
4	Chloride (as Cl)		IS: 3025 (P-32) : 1988; RA 2019	44.0	6	na/l
5	Sulphate as (SO4)		15: 3025 (P- 24): 1986,Sea RA 20	72 23.1	2	- ingri
6	Total Alkalinity (as CaCO	33)	IS: 3025 (P- 23) : 1986, RA 2010	83.1	0	ពេញក
7	Total Hardness (CaCO3)	IS: 3025 (P-21) : 2009, RA 2019	421.	06	
8	Calcium (as Cal		15 3025 (P-40) 1991 RA 2019	35.2	2-	ារផ្លូវ
9	Magnesium (as Mg)		15 ; 3025 (P- 46) : 1994, RA 2011	9 7.A	5	0005
10	Pluuride (as F)		APHA 23rd Edition, 4500D, 2017	0.4	4	migiñ
11	Nitrate (as NO3)		IS: 3025 (P- 34) - 1988 RA 2022		0	mail
12	Phonolic compounds		APHA 23rd Edulion, 5530C, 2017	"BLQ("LO	0-0.000)	0/0/0
13	Egoal Californ		IS:1622:2009	Pres	ent	MPN
14	Total Coliform		15 15165, 2016	Pleas	ent	MFN
10	Iron (as Fe)		APHA 23rd Edition,3111B, 2017	0.3	1	0.00
16	Zine (as 2n)	10	APHA 23/d Edition, 3030D,3113 2017	B, .().4	8	aigh
17	Coppus (as Cu)	-	APHA 23rd edition, 3111B, 201	7 BLQ(**LC	(\$0.0-0	mpä
18	Manganese (as Mn)	1EX	APHA 23rd Edition, 3030D,3113 2017	B, BLQ(**LC	00-0.05)	uiĝa.
19	Arsenic (as As)		APHA 23rd Edition, 3030D,3114 2017	C, *BLQ(**LO	Q-0.005)	ñgen
20	E Coli		IS (15185 ; 2016	Pres	ent	P-A/100 M
21	Boron (as B)		APHA 23rd Edition, 4500D, 201	7 *BLQ(**L	00-0.2)	ngin
22	Selenium (as Se)		APHA 23rd Edition.3114C, 201	7 "BLQ(**LO	Q-0,005)	Ngin.







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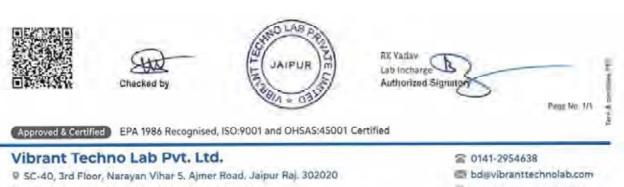


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: VTL/W/2403230016/B Sample Number : VTL/SW/04 Report No. Name & Address of the Party : M/s Adani Power Limited Format No : 7.8 F-01 Village- Chhote Bhandar, Post- Bade Bhandar, Party Reference No : NIL Tehsil- Pussore Dist.- Raigarh 496100 Chhattisgarh Report Date : 28/03/2024 Period of Analysis : 23/03/2024-28/03/2024 Sample Description : SURFACE WATER Receipt Date : 23/03/2024 Sampling Date Sampling Location : 20/03/2024 : Mand River Up Stream Sampling Type Sample Collected By : Grab : VTL Team Sample Quantity : 2 Ltr Preservation : Suitable Preservation : NA Method of sampling Coordinates : IS :3025 Test Method Unit S.No. **Test Parameters** Results "BLQ(""LOQ-5.0) IS: 3025 (P-4): 2021 Colour Hazan Odour 18:3025 (P-5): 2018 Agreeable 3 IS: 3025 (P-8): 1984 RA 2017 Agreeable Taste -3 Residual Free Chlorine (RFC) 18:3025 (P-26):2021 *BLQ(**LOQ-0.2) mg/l APHA 23rd Edition, 45000, 2017. HLG(~10030) Cyanida (as CN) man 6 *BLO(**LOQ-0.03) Aluminium (as All) IS: 3025 (P-55) 2003, RA 2019 rou_A Ammonia (as NH3) IS : 3025 (P-34) 1988. Sec.4 RA 2019 *BLQ(**LOQ-0.3) mph Anionic Detorgents (M6A8) APHA 23rd ed., 2017, 5530C "BLO(""LOO 6 65) ingli

*8LO Slow limit of Quantification **LOO Limit of Quantification

End of Report



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			TEST REPORT			22
	The unimoginable le Number : VTL/SW/0 & Address of the Party	: M/s Adani P	ower Limited ote Bhandar, Post- Bade Bhandar,	ULR No. Report No. Format No Party Reference No	: VTL/W/240 ; 7.8 F-01	1000000492F 13230017/A
Samp Samp Prese	le Description ling Location le Collected By rvation od of sampling	Tehsil- Puss : SURFACE V I Supa Village : VTL Team : Suitable Pre ! IS :3025	1	Report Date Period of Analysis Receipt Date Sampling Date Sampling Type Sample Quantity Coordinates	: 28/03/2024 : 23/03/2024 : 23/03/2024 : 20/03/2024 : 20/03/2024 : Grab : 2 LV : NA	-28/03/2024
S.No.	Test Param	eters	Test Method	Resu	its	Unit
1	pH value	_	IS: 3025 (P-11): 2022	7.7	0	1441
2	Turbidity		IS : 3025 (P-10) : 1984, RA 201	3.1	6	NTU
3	Total Dissolved Solids (T	05)	IS: 3025 (P-16): 1984, RA 2017	288.	51	ógm
0.11	Chloride (as Cl)		IS: 3025 (P-32) : 1988, RA 2019	44.7	2	mail
5	Sulprate as (SQ4)		15: 3025 (P-24), 1988,Sec.RA 20	23.3	ō.	- phate -
5	Total Alkakinity Las CaCO	3)	IS: 3025 (P-23) 1986, RA 2019	85.0	4	-70,90
1	Tetal Handness (CaCIN)		15: 3025 (P- 21) - 2009, RA 2015		36	mil .
8	Calcium (as Call		IS : 3025 (P-40) - 1991 RA 2019	37.4	T.	Finn
9	Magnesium (as Mg)		15: 3025 (P-46) : 1994, RA 2015	15	3	riugh).
10	Fluoride (as F)		APHA 23rd Edition, 4500D; 2017	0.6	¢	70.03
17	Nitrate (us NO3)		15: 3025 (P-34) : 1988 RA 2022	22.6	IĘ.	man
12	Phenolic compounds		APHA 23rd Edition, 6530C, 2017	"BFOL"FO	0-0.0011	10007
13	Fecal Collform		15:1622 (2009)	Pres	ent	MPN
14	Total Colloim		IS 15185; 2016	Pres	the	Maphy.
15	Iron (as Fe)		APHA 23rd Edition, 3111B, 2017	0,3	6	mail
16	Zinc (as Zn)		APHA 23rd Edition, 3030D,31131 2017	3, 0.5	0	mg/i
17	Copper (as Cu)	-	APHA 23rd edition, 31118, 201	*BLD(**LC	00-0.021	610/7
18	Manganese (as Mn)	U.	APHA, 23/d Edition, 3030D,31130 2017	5. BLQ(*'LC	20-0.05)	mgñ
19	Arsanic (as As)		APHA 23rd Edition, 3030D,3114 2017	C, *BLQ(**LO	Q-0.005)	mg/l
20	E Con		IS :15185 : 2016	Paga	ion i	P-A/103 ML
23	Boron (as B)		APBA 23rd Edition, 4500D, 201	Larot.r	00.03)	ligm
22	Selenium (as Se)		APHA 23rd Edition,3114C, 201	7 *BLQ(**LO	(Q-0.005)	ing/l







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Sample Number : : VTL/W/2403230017/B VTL/SW/04 Report No. Name & Address of the Party ; M/s Adani Power Limited : 7.8 F-01 Format No Village- Chhote Bhandar, Post- Bade Bhandar, Party Reference No : NIL Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh Report Date : 28/03/2024 Period of Analysis : 23/03/2024-28/03/2024 Sample Description : 23/03/2024 : SURFACE WATER Receipt Date Sampling Location Sampling Date : 20/03/2024 1 Supa Village Sampling Type Sample Collected By : Grab : VTL Team Sample Quantity : 2 Ltr. Preservation : Suitable Preservation Coordinates : NA Method of sampling : IS :3025 S.No. **Test Method** Results Unit **Test Parameters** IS: 3025 (P-4): 2021 *BLQ(**LOQ-5.0) Colour Hazen 1S : 3025 (P-5) : 2018 Odour Agreeable 2 144 IS : 3025 (P-8) : 1984 RA 2017 3 Taste Agreeable Residual Free Chlorine (RFC) IS: 3025 (P-26) :2021 *BLO(**LOQ-0.2) 4 mg/l *BLQ(**LOQ-5.0) APHA 23rd Edition, 4500D, 2017 Cyanide (as CN) f, ma/i Aleminium (as Al) 15 3025 (P-55) 2003. RA 2019 "BLQ(""LOQ-0.03) mg/l 15 : 3025 (P+34) 1988, Sec.4 RA 2019 "BLO(""LOQ-0.3) Ammonia (as NH3) mg/l Anionic Detergents (MBAS) BLQ(**LOQ 0.08) APHA 23rd ed., 2017, 5530C

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

"End of Report""





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sperience	RANT c the unimaginable* e Number : VTL/WW/0	1		ULR No. Report No.	: TC1122724 : VTL/WW/2		
Name	& Address of the Party	: M/s Adani Powe	er Limited	Format No	: 7.8 F-01		
-			Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL		
		Tehsil- Pussore	Tehsil- Pussore Dist - Raigarh 496100 Chhattisgarh		: 28/03/2024		
				Period of Analysis	: 23/03/2024	23/03/2024-28/03/2024	
		: Waste Water		Receipt Date	Receipt Date : 23/03/2024		
		: ETP Inlet	ETP Inlet		: 20/03/2024		
Sampl	e Collected By	: VTL Team		Sampling Type	: Grab		
Preser	vation	: Suitable Preser	vation	Sample Quantity	: 2 Ltr.		
Metho	d of sampling	: IS :3025		Coordinates	: NA		
S.No.	Test Parame	eters	Test Method	Rest	ilt	Unit	
1	pH		IS: 3025 (P-11): 2022	7.79)		
2	Total Suspended Solids (7	rss)	IS: 3025 (P-17): 2022	51.2	4	mg/l	
3	Oil & Grease		18:3025 (P-39): 2021	5.43		ma/l	
4	Biochemical Oxygen Dem days @ 27*C)	and (BOD) (3	IS: 3025 (P-44): 1993, RA: 2019	30.0	8	māli	
5	Chemical oxygen Demand	(COD)	IS: 3025 (P-58) : 2006 PA: 2017	/ 185.0	89	Nem	

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

End of Report













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1			TEST REPORT			TC-11227	
_	RANT	02		ULR No. Report No.		4000000494F 2403230002/A	
	Colored Colored	M/s Adani	Power Limited	Format No	: 7.8 F-01		
			hote Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL		
25			sore Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024		
Name	& Address of the Party	1		Period of Analysis	: 23/03/2024-28/03/2024 : 23/03/2024 : 20/03/2024		
Samp	le Description	: Waste Wa	ter	Receipt Date			
Samp	ling Location	: ETP Outle		Sampling Date			
이는 것을 위한 것	le Collected By inates	: VTL Team : NA		Parameter Required	As per wor	k order	
S.No.	Test Paramete	ers	Test Method	Result	Unit	Limits	
1	pН		IS: 3025 (P-11): 2022	7,96		5.5 to 9.0	
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	22.73	me/l	100	

2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	22.73	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)	16: 3025 (P-44): 1993, RA: 2019	18.37	mp/l	30
5	Chemical oxygen Demand (COD)	IS: 3025 (P-58) : 2006 RA: 2017	74.92	mg/l	250
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*BLQ-Below Limit OF Quantification, **LOQ- Limit Of Detection

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1		TEST REPORT			TC-41227	
	Ce the unimaginable" le Number : VTL/WW/03		ULR No. Report No.	/ Constant Comment	4000000495F 2403230003/A	
		dani Power Limited	Format No	+ 7.8 F-01		
		e- Chhote Bhandar, Post- Bade Bhandar,	Party Reference No	: NIL		
	the second s	- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/202	4	
Name	& Address of the Party ;		Period of Analysis	: 23/03/2024-28/03/2024 : 23/03/2024 : 20/03/2024 4 : As per work order		
Samp	le Description : Wast	Water	Receipt Date			
Samp	ling Location : STP	Dutlet	Sampling Date			
	le Collected By : VTL 1 linates : NA	eam	Parameter Required			
S.No	Test Parameters	Test Method	Result	Unit	Limits	
1	рН	IS: 3025 (P-11): 2022	7.54		5.5 to 9.0	
2	Total Suspended Solids (TSS)	IS: 3025 (P-17): 2022	21.22	mg/l	100	
3	Oil & Grease	IS:3025 (P-39): 2021	*BLQ(**LOQ-4.0)	mg/l	10	
4	Biochemical Oxygen Demand (BO (3 days @ 27*C)	D) IS: 3025 (P-44): 1993, RA: 2019	17 16	mgß	30	
5	Chemical oxygen Demand (COD)	IS : 3025 (P-58) : 2006 RA: 2017	43.88	mg/l	250	

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

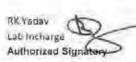
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×			TEST REPORT			TC-1121	
	RANT e the unimaginable" e Number : VTL/WW/	14		ULR No. Report No.		4000000496F 2403230004/A	
	and the second se		M/s Adani Power Limited	Format No	: 7.8 F-01		
			Village- Chhote Bhandar, Post- Bade Bhandar,	Party Reference No			
			Tehsil- Pussore Dist Raigarh 496100 Chhattisgarh	Report Date : 28/03/202		4	
Name	& Address of the Party	:		Period of Analysis : 23/03/2024-28/0		4-28/03/2024	
Sampl	e Description	8	Waste Water	Receipt Date	: 23/03/2024 : 20/03/2024		
Sampl	ing Location		Cooling Tower Blow Down	Sampling Date			
-	Sample Collected By		VTL Team NA	Parameter Required			
S.No.	Test Paramete	ers	Test Method	Result	Unit	Limits	
1	Chromium (as Cr)	-	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mg/l	2	
2	Zinc (as Zn)		APHA 23rd Edition-3030D, 3113 B,	*BLQ(**LOQ-0.2)	mg/l	5	

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

Residual Free Chlorine

3

End of Report

0.38

mg/l

1.0

2017

IS: 3025 (P-26):2021













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	e the unimoginable" é Number : VTL/WW/	14		Report No.	· VTL/WW/2	403230004/B	
Name & Address of the Party Sample Description Sampling Location Sample Collected By Coordinates		M/s Adani Power Limited		Format No Party Reference No Report Date	7.8 F-01 NIL : 28/03/2024		
		*		Period of Analysis	: 23/03/2024-28/03/2024 : 23/03/2024 : 20/03/2024		
		: Waste V : Cooling	vater Tower Blow Down	Receipt Date Sampling Date			
		: VTL Team : NA		Parameter Required	As per work order		
S.No.	Test Paramete	rs	Test Method	Result	Unit	Limits	
1	Phosphate (as PO4)		IS:3025 (P-31):1988, (stannous Chloride Mathod) Sec.3 RA: 2022	*BLQ(**LOQ-0.2)	mg/l	5	

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

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Sampling Location Sample Collected By		M/s Add Village- Tehsil- : : Waste : Boiler E : VTL Te	llow Down	ULR No. Report No. Format No Party Reference No Report Date Period of Analysis Receipt Date Sampling Date Parameter Required	: TC1122724000000497F : VTL/WW/2403230005/A : 7.8 F-01 : NIL : 28/03/2024 : 23/03/2024 : 23/03/2024 : 23/03/2024 : 20/03/2024 : As per work order	
S.No.		: NA	Test Method	Result	Unit	Limits
1	Chromium (as Cr)	-	APHA 23rd Edition 3113 B, 2017	*BLQ(**LOQ-0.1)	mig/l	2
2	Zinc (as Zn)		as Zn) APHA 23rd Edition-3030D, 3113 B, 2017		mg/j	5
3	Residual Free Chlorine		1S: 3025 (P-26):2021	0.44	mg/l	1.0

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Experience the unimoglinable" Sample Number : VTL/WW/ Name & Address of the Party Sample Description		M/s Ada	ini Power Limited Chhote Bhandar, Post- Bade Bhandar,	Report No. Format No Party Reference No	: VTL/WW/2 ; 7.8 F-01	2403230005/B	
			Pussore Dist Raigarh 496100 Chhattisgarh	Report Date	: 28/03/2024		
		•		Period of Analysis	: 23/03/2024-28/03/2024		
		: Waste V	Water	Receipt Date	: 23/03/2024		
Samp	ling Location	: Boiler B	low Down	Sampling Date	: 20/03/2024		
Sample Collected By Coordinates		: VTL Team : NA		Parameter Required	As per work order		
S.No.	Test Paramete	rs	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 Detection

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RK Yaday Lab Incharge Authorized Signatory

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Project Name: M/s Adani Power Limited

Formerly M/s Raigarh Energy Generation Ltd. Located at Village Chhote Bhandar, Post office Bade Bhandar, Tehsil-Pussore, Dist-Raigarh -496100 (Chhattisgarh)

2nd Half Yearly Environmental Monitoring Report

Chapter-5 CONCLUSION

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

S.No.	Environmental Parameters	Conclusion
1.	Air Environment	After analysis of the samples from five different locations
		it is observed that both the individuals and average
		concentration of air pollutants in respect of SO2, NO2,
		PM10, PM2.5, CO and Mercury are well within the
		prescribed limits of NAAQM standards. People of
		township and of surrounding villages do not have any
		problems regarding the air quality and have no grievances
		because of Thermal Power Plant activities.
2.	Water Environment	The analytical result of the samples from the ground water
		of villages, surface water from river, and domestic &
		industrial effluent after treatment shows that the
		concentrations of different water parameters are well
		within prescribed limits and will not cause any adverse
		impact on human health and on surrounding area. People
		of surrounding areas express satisfaction about the water
		quality of that area.
3.	Noise Environment	The observations taken at four village location during day
		and night time shows that the noise level is well within
		prescribed limits of CPCB. Hence there is no possibility of
		any adverse effect of noise generated due to Thermal
		Power Plant activities on peoples of Surrounding areas.

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





CSR - Annual Progress Report



Adani Power Limited, Raigarh 4/1/2024



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Preface

Adani Power Limited (APL) Raigarh erstwhile Raigarh Energy Generation Limited, 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 connecting to Raipur, the state capital. The nearest railhead is at Raigarh. The airport is at Jharsuguda 105 KM and Raipur airport is 225 KM.

This is a green field power plant initiated in the year 2008 and commissioned in the year 2014. The total land acquired for the plant is 897 acres from the four villages of Pussore tehsil. The plant is out of the Abadi area, hence there is no displacement of the houses. The CSR initiatives in peripheral villages began along with the initiation of land acquisition in late 2008. During the project time CSR project and activities were spread over in 75 villages within 10 KM radius of the project.

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).

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 were made in the CSR Rules. 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.

A MoU executed with AF on dated 22nd, December 2020 for implementation of CSR projects at REGL. AF is implementing various CSR projects in 15 peripheral villages including 4 core villages of plant since FY 2021-22 focusing on Health, Education, Sustainable Livelihood, Community Infrastructure Development, and Skill Development of the youths. The four core villages are Bade Bhandar, Chhote Bhandar, Amalibhouna and Sarwani.

This was the third year of CSR implementation from AF. All CSR initiatives were aligned with Sustainable Development Goals (SDGs). This year we took up many new initiatives like Adani Competitive Coaching Center, Utthan Project in 8 Govt. schools, Kabaddi Training for girls, Kamdhenu- Dairy Development Project in partnership with BAIF. 100 girls were trained in tailoring course, microentrepreneurial development with SHGs for mushroom and vegetable cultivation. Constructed Community center and shed at village Bade Bhandar and Kalma.



Message from Business Head



It gives me great pleasure to present our annual CSR Report for the FY 2023-24. Adani Power Limited is a responsible company and has found its purpose giving back to the community, and it is an inherent part of Adani philosophy. This was the third vear of CSR project implementation from Adani Foundation after takeover of the plant. Over the past year, we have continued to focus on our core values of courage, trust, and commitment.

Our efforts have resulted in significant progress in achieving our strategic goals and a positive on the communities we serve.

One of the components of Adani Power vision is to "empower lives" by positively impacting the community through sustainable livelihoods and education. It gives me immense pleasure to know that the local women have formed Self Help Groups and are engaged in various farm, off-farm, and non-farm activities, and they are becoming self-reliant under our CSR sustainable livelihood development projects. And dairy farmers are getting benefits from livestock development projects. As the nation builds strength from its young population, we are enhancing our comprehensive Education initiative through our flagship Project "Utthan" aligned with NEP 2020. Encouraged school children and local youths to participate in sports and games for overall development.

Samajik Suraksha Labh Abhiyan was one of the unique initiatives, where people were mobilized to uptake govt schemes, a total of 1068 people benefitted from this initiative.

I am confident that we will be able to make a difference in the lives of the communities by improving their access to quality education, health care services, livelihood opportunities and improved infrastructure.

As we step into another year of new initiatives – we look at expanding the depth and intensity of our reach across our various themes of work. We also look to build strong stakeholder relationships and warm partnerships, so that we help to contribute to nation building.

Best Wishes, Samir Kumar Mitra Station Head

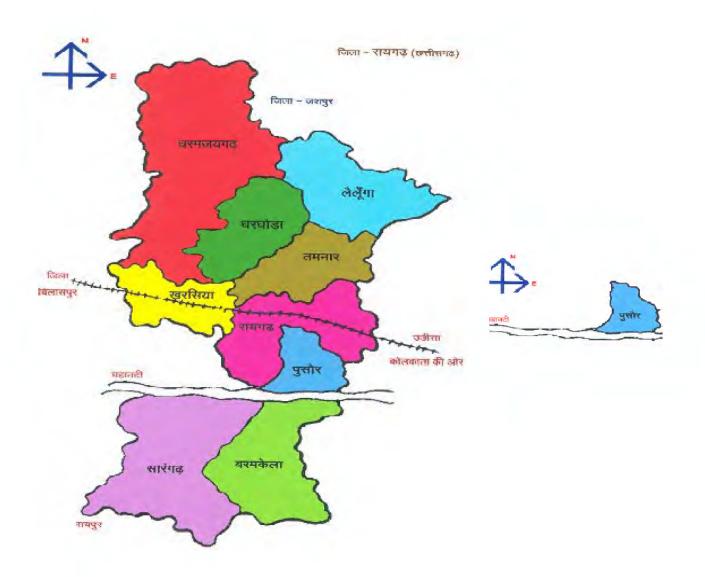
Demographic Profile

Chhattisgarh, which came into existence as a state on November 1, 2000, was formed following the coming together of 16 districts of undivided Madhya Pradesh. It shares its borders with seven states – Orissa in the east, Jharkhand in the northeast, Madhya Pradesh in the west and north-west, Uttar Pradesh in the north, Maharashtra in the south-west, Telangana, and Andhra Pradesh in the south-east. Chhattisgarh can be divided into three distinct regions:

- 1. Northern region
- 2. Central plain region
- 3. Southern region



Raigarh district falls in northern region and eastern part of state bordering Odisha. The district is known for its rich natural resources and rivers Kelo, Mahandi and Mand, which flows through and across the district.



DEMOGRAPHIC INDICATORS	CHHATTISGARH	RAIGARH	PUSSORE	CSR INTERVENTION VILLAGES
Population	25545198	1493984	139799	19734
Male	1,28,32,895	750278	70261	9886
Female	1,27,12,303	743706	69538	9849
Schedule Caste	12.81%	15.06%	14.35%	15.76%
Schedule Tribe	15.16%	37.86%	20.58%	23.68%
Number of Households	5640620	367701	36644	5221
Total Villages	20335	1485	148	20
Total Panchayat	9770	774	88	13
Sex Ratio	991	991	990	991
Population Density	189	218	349	
Literacy				
Total	71.04%	73.26%	70.48%	75.75%
Male	81.45%	83.49%	88.71%	86.87%
Female	60.59%	63.02%	70.26%	64.08%

Note: - We expanded our CSR activities to Pusalda, Shankarpali and Amalipali villages during July 23 and subsequently added Jatri and Tilgi villages to our programs during February 2024. At present, we are covering a total of 20 peripheral villages.



Executive Summary: -

Year 2023-24 was the third year of CSR project implementation from Adani Foundation after takeover of the plant. The CSR projects were identified in consultation with the community and need of the area in alignment with Adani Power Limited CSR policy and Strategic Direction set by Hon. Chairperson Adani Foundation. Project Design Document (PDD) developed with the clear understanding on rational for the project, goal and objectives, outcome indicators with project implementation timeline and budget.

The project implementation strategy was to ensure community participation and, where possible, coordinate with the govt. line departments for convergence to create greater impact. Digital Monitoring, Evaluation and Learning (DMEAL) was tried out and adopted by the field team for recording of activities and for further use for programmatic decisions.

CSR projects in the thematic area of Education, Health, Livelihood and Community Infrastructure Development were implemented in 20 peripheral villages including four core villages of the plant.

Key Highlights

1. Education:

- Project Utthan- is being operationalized to provide an enabling environment to 467 children across 8 government schools to improve reading, writing and numeracy (Basic Literacy and Numeracy) abilities. Schools- 5 primary and 3 middle schools to achieve the objectives of Nipun Bharat Mission.
 - Placed four volunteers named Utthan Sahayak to facilitate the project activities in the schools and organized monthly mothers meeting in schools. More than 150 mothers actively participated.
 - Organized and participated in 17 nos. special day celebrations like National Science Day, World Environment Day, International Yoga Day, National Child Girl Day, National Youth Day, National Mathematics Day, Childrens Day, International Women Day, Independence Day, Republic Day etc. in the schools.
 - Distributed library books in O3 Primary & O5 Middle Schools for enhance the reading capacity to students.
 - Organized interschool competition in collaboration with govt. education department of Pussore. More than 700 students from 26 schools were actively participated from Bade Bhandar, Supa and Bunga Cluster.
- Adani Khel Kumbh- Trained 50 girls for Kabaddi from qualified coaches to play at district and state level tournaments. Total eleven girls have been selected to play at state level federation/School tournaments. One Girl selected for "Khleo India Rural Indigenous National Games at Odisha. Won the district level Kabaddi Tournament in Chakradhar Samaroh-Raigarh. Also sponsored youth clubs for Kabaddi and Cricket tournament.



2. Community Health:

- Mobile Healthcare Unit conducted 21235 free health check-ups and treatments through 671 camps at the doorsteps to the people residing in 20 peripheral villages.
- More than 800 people received medical aid in the health camp organized during Navratri at Maa Chandrahasini temple, Chandrapur, Dabhra, Dist-Sakti.
- One outreach multispecialty health camp organized at village Jatri and conducted 250 free health check-ups and distributed free medicines to patients.
- Provided patients waiting chairs, RO water cooler and constructed male/female toilet at Bade Bhandar primary health center.

3. Sustainable Livelihood Development:

Adani's Mahila Movement for Advancement (AMMA)-

- Support to 41 Self Help Groups (SHGs) for undertaking on-farm, off-farm, and non-farm activities to generate additional income for enhance their living standards.
 - 11 SHGs earned Rs 1.77 lakhs from mushroom cultivation,
 - 19 SHGs earned Rs 9.47 lakhs from vegetable cultivation,
 - Facilitated to form a group (named DARJI) of 10 to 15 trained girls engaged in cutting and stitching of cloths on market orders and provided 12 new commercial electric machine to strengthen and engage more than 50 women in the business. They earned Rs. 1,84 Lakh,
 - Two-months training program organized on terracotta art for 28 nos. SHG members and potters of Tupakdhar and Chandli villages.
 - Adani Foundation celebrated International Women's Day where more than 150 women from peripheral villages actively participated.

Samajik Surkhsa Labh Abhiyan-

 Organized 22 camps in 18 peripheral villages to uptake govt schemes, total 1068 people have been benefited under this campaign, out of which a total of PMJAY- 627 nos., PMSBY-41 nos., PMJJY-27 nos., Sukanya Samriddhi Yojana-06 nos, PMJDY-30 nos., Labor Card -10, Sharm Card - 06, PM Vishwakarma -319 and Voter ID (02) have availed the benefit of these govt. schemes.



Vriksh Se Vikas-

 5056 fruit and forestry tree Mango (845 Sapling), Neem, Karanj, Arjun, Peepal, Bargad etc. were distributed to individual and planted in community places/Gothan /Schools in 18 peripheral villages.

Adani Saksham-

• 100 girls trained in tailoring skills, self-employed in tailoring business.

Kamdhenu-Dairy Development-

- Livestock development project implemented for cattle breed improvement, vaccination, treatment, fodder development and training program to enhance productivity-
 - Total 652 SS (463 nos.) and CS (189 nos.) Al conducted through one LDC,

- Organized 6 cattle health camps in which 773 cattle treated, and 165 farmers benefitted from 6 villages

 533 farmers from 14 villages attended in 15 training on improved livestock health management.

- Distributed Fodder to 74 livestock farmers in 17 peripheral villages. Demonstrate hybrid Napier (30000 cuttings) in 10 acres, Maize (540 KG), pearl millets (120 KG) in 18.13-acres and similarly berseem (130 KG) and Oats (200 KG) demonstrated in 24.44 Acres. Total 52.57 fodder area developed during the FY 23-24.

- 357 Pregnancy Diagnosis - 213 animals found pregnant. Total 61 female calves are born out of 89 calving in cows including sex sorted semen.

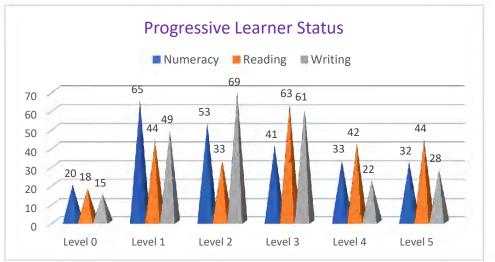
4. Community Infrastructure Development:

- Constructed cement concrete road (900 meter) from Birhabhata to Sarwani village.
- Constructed community center at village Sarwani and village community utilized for community purpose.
- Constructed school boundary wall at Govt. Primary School Bade Bhandar.
- Constructed community shed near Shani Mandir Bade Bhandar village.
- Constructed Toilet at Primary health center at Bade Bhandar village.
- Constructed playground at Amlibhouna village.
- Pond deepening work was done in Bunga, Ruchida and Putkapuri villages, which increased the total water capacity by 16262 cubic meters.

Main section:

1.1 Education

Project Utthan launched by Adani Foundation in the month of January-2023 in Supa village, Pussore tahsil of Raigarh with objective of enhancing learning outcomes in elementary



education and handhold the "Priya Vidyarthi's' (Progressive Learners). Block Education Office- Pussore, Dist. Raigarh consented for implementation of Project Utthan in 08 Government Schools.

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
- Creating joyful learning spaces

Outreach of Utthan:

SL		Village	Village School Strength		Details of Deprived Community					
JL	School name	Name	Boys	Girls	Total	SC	ST	OBC	GEN	OTH
1	Primary School	Bade Bhandar	24	21	45	21	8	15	1	-
2	Primary School	Sarwani	23	28	51	5	45	1	-	-
3	Primary School	Amlibhouna	19	28	47	0	44	3	-	-
4	Primary School	Jevridih	15	7	22	4	4	14	-	-
5	Primary School	Supa	34	26	60	23	11	26	-	-
6	Middle School	Bade Bhandar	57	51	108	31	26	51	-	-
7	Middle School	Kathli	23	12	35	1	18	16	-	-
8	Middle School	Supa	54	45	99	31	31	37	-	-
	Total	08	249	218	467	116	187	163	1	0

In the year-2023-24, baseline assessment had undertaken to know the learning level of Govt. Primary & Middle schools. A total of 8 nos. of Govt. Schools covered in the assessment.

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Special Day Celebration in Govt School:

Observed 17 nos. of special day celebrations like National Science Dav. World Environment Day, International Yoga Day, National Child Girl Dav. National Youth Day, National Mathematics Day, Childrens Dav. International Women Day, Independence Day, Republic Day etc. in the schools under project Utthan and covered 467 students of them 244 were progressive learners. Various competition organized during the days like quiz, poster, essay writing, speech, poem, slogan writing, science fest and 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.



Enriched reading corner to develop reading habits - facilitated 467 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.

Installed E learning module for smart classes in O6 Schools:

The students engage with curriculum via animations and videos as this smart class projects are installed with 1 to 8th class subjects in 06 schools, using this advanced smart class teachers can quickly analyze and measure the students' progress and success. Total 323 students are provided Navneet Topper Apps at Primary School of Bade Bhandar, Supa, Amlibhouna, Sarwani and Middle School of Kathli and Bade Bhandar villages.

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Organized Inter School Sports Tournament:



Organized interschool competition in collaboration aovt. education with department of Pussore. More than 700 students from 26 schools were actively participated from Bade Bhandar, Supa and Bunga Cluster. Various sports events like 100-meter race, 50-meter race, long jump, high jump, Kabaddi, Kho -Kho, musical

chair, Bag Race and Cultural Events were organized and It is helpful in increasing the participation level of students and developing sports skills. Parents and stakeholder also actively participated in this sports meet.

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 May and June 2023. A total of more than 290 students/progressive learners participated. During the scholastic and camp nonscholastic 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.

Preparation of JNV exam:

A total of 49 students were selected and enrolled for JNV exam of FY 2023-24 from 05 Govt. Primary School of Bade Bhandar, Sarwani, Amlibhouna, Supa and Jevridih villages 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.



Distribution of Notebooks and Library Books in Schools:

Notebook distribution program was organized at Govt. Middle school - Supa village on dated 22nd July 2023 Under Utthan Project. A total of 486 students gets benefitted from 80



schools. The main objective of this program was to ensure that students continue to practice learning and improve their writing skills. school teachers, SMC members & Panchayat representatives appreciated this program, and it is becoming a medium to improve the writing skills of 244 progressive learners. Similar Library books set also distributed to 08 Govt. School under the project Utthan. The main objective of distribution of library books is to create an enjoyable reading environment/culture for the students and to develop their reading ability.



Water Purifier RO cum cooler provided to 02 High Schools:

Installed two 80 Liters RO water filter to provide safe and clean drinking water facility in Government Higher Secondary School-Bade Bhandar. More than 250 students and school staffs are accessing clean and safe drinking water.

Constructed School Boundary wall:

The boundary wall was constructed for the school premises of Government Primary School. Bade Bhandar. A total of 45 students are enrolled in this school and our Utthan project is



being implemented in this school. This boundary wall was constructed at the request of the school committee for the safety and cleanliness of the school campus. Parents and panchayat members appreciated boundary wall construction.

Industry Partner for ITI Sariya:

Organized power plant exposure to 40 students and teachers of electrical. welder and fitter trade from Government Industrial Training Institute (ITI)Sariya. Total



two nos. meetings of Institute Management Committee (IMC) held during the year 2023-24 and where various decisions taken for improvement of ITI Sariya and awareness session also organized for national electrical safety week during July 23 and world environment day during the June 2023.

1.2 Community Health: -<u>Mobile Health Care Unit (MHU):</u>

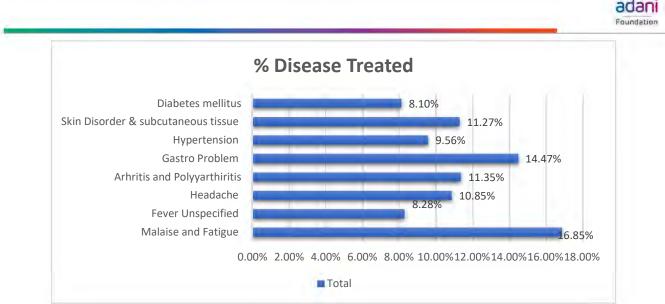
To provide quality health care services free of cost and promote preventive and curative services at the doorsteps of villagers is one of the objectives of the Mobile Healthcare Unit (MHU). The project is operational in 20 peripheral villages, visits villages on fixed schedule.

A Total 671 nos. rural health camps were organized in 20



villages through Mobile Medical Health Care Unit (MHCU). Total of 21235 beneficiary took benefits from this camp. in which 10982 female and 10253 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.

Sr. No.	Name of Villages	Male	Female	Total
-				
1	Bade Bhandar	730	745	1475
2	Chhote Bhandar	863	1046	1909
3	Amlibhouna	676	646	1322
4	Jevridih	311	495	806
5	Sarwani	578	682	1260
6	Barpali	533	361	894
7	Kathli	919	770	1689
8	Tupakdhar	373	516	889
9	Bunga	920	1081	2001
10	Ranbhatha	589	818	1407
11	Taparda	662	588	1250
12	Supa	416	534	950
13	Kotmara	453	305	758
14	Kalma	329	345	674
15	Chandli	329	395	724
16	Amlipali	478	552	1030
17	Shankarpali	245	290	535
18	Pusalda	626	553	1179
19	Jatri	98	117	215
20	Tilgi	125	143	268
	Total	10253	10982	21235



Awareness sessions for preventive healthcare:

MHU team conducted total 11awareness 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 2457 persons participated from 20 nearby villages. Conducted 40 Home visits by the MHCU team for patients unable to reach the health camp site and 11 patients were referred for secondary treatment.

Sr. No.	Village Name	Awareness Session	Person Participated
1	Bade Bhandar	7	121
2	Chhote Bhandar	8	161
3	Amlibhouna	7	105
4	Jevridih	6	106
5	Sarwani	11	194
6	Barpali	6	109
7	Kathli	8	168
8	Tupakdhar	9	117
9	Bunga	9	244
10	Ranbhatha	9	184
11	Taparda	7	130
12	Supa	8	188
13	Kotmara	7	147
14	Kalma	6	96
15	Chandli	7	124
16	Amlipali	7	117
17	Shankarpali	3	44
18	Pusalda	3	79
19	Jatri	1	23
20	Tilgi	0	0
	Total	129	2457

School health and awareness camps:

School health camps organized in 5 govt. schools for providing quality health services to care school students and create to awareness on cleanliness. health. personal and menstrual hygiene to adolescent girls of high and higher secondary school. Total 06 such camps organized where 375 students were benefitted



with treatment to 106 students by our MHU team. This was appreciated by girl students, teachers, and parents. Total 136 HB test has been done during the school camps.

<u>Important Day's Celebration:</u> Celebration of Nutrition Month (Poshan Mah)



National Nutrition Month is celebrated every year from 1 to 30 September, the purpose is to create awareness about importance of nutrition and to act and address the issues of malnutrition among children. adolescent girls, pregnant women, and nursing mothers. with the above objectives, various

activities like Anna Prashan, God Bharai (Baby Shower), Rangoli, display of nutritional diet and awareness session was organized in coordination with District Women and Child Development department- Raigarh. Covered total 34 AWC from 18 villages, 1500+ women participated. On this occasion honored to 147 AWC worker, Mitanin and Supervisor.

Observed world breast feeding week in 18 peripheral villages for creating awareness about importance of breastfeeding, remove their misconception and promoting breastfeeding. Total 10 awareness sessions organized, 165 lactating and pregnant women participated from 10 villages.



<u>Medical Camp:</u>

Organized free Medical Camp at Maa Chandrahasini Temple. Chandrapur from 15.10.2023 to 23.10.2023 during Navratri. A very big fate is being organized here every year on the eve of Navratri. It is also famous as a tourist place. Durina the Navratri festival of more than 1000 people per day visit the temple from nearby area and surrounding states. The people come from far places and wait for a day and two to visit and worship in the temple. It observed and is feedback received from kev stakeholders the that many visitors need attention for first aid





medical services and treatment for common ailment like cough and fever and they are unserved. During the camp free medical consultation, check-up, free medicines were distributed to the devotees and patients more than 800 people were treated during the health camp.



Outreach Health Camp:

Organized 01 nos. outreach multispecialty health camp village Jatri at and conducted 250 free health check-ups and distributed free medicines to patients. medicine, General ENT, Orthopedics, and gynecologist doctors provided to services patients.



Infrastructure Support to Health Center:

Primary health center – Bade Bhandar is one of the health service providers in 35 villages in Pussore block of Raigarh district. Daily 40-45 OPD patients come here to health check-ups and many Govt. health program will implementation and monitor through this health center. As per request of Primary health center – Bade Bhandar provided infrastructural support like constructed one toilet for patient at inside campus of health center. Similarly provided patient waiting chair (06 no.) and One Water Purifier cum RO for providing safe drinking water facilities to patient.

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):

Total 652 artificial inseminations were done in 27 peripheral villages, out of which 463 were sorted semen and 189 were conventional semen was done from April 2023 to March 2024.

- Total 357 Pregnancy diagnosis conducted after three months of AI and 213 cattle found pregnant and 89 new improved calves born.
- The highest number of AI was done in village Karichhapar- 68(10.43%) followed by Tilgi- 67(10.28%) and Bunga- 47(7.67%).

SL.	Name of Villages	Farmers Benefitted	Sorted Semen	Conventional Semen	Total
1	Bade Bhandar	18	12	12	24
2	Chhote Bhandar	24	17	11	28
3	Amlibhouna	4	0	5	5
4	Jevridih	2	2	0	2
5	Sarwani	7	8	0	8
6	Barpali	6	2	4	6
7	Kathli	20	17	10	27
8	Tupakdhar	0	0	0	0
9	Bunga	34	25	25	50
10	Ranbhatha	14	13	8	21

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SL.	Name of Villages	Farmers Benefitted	Sorted Semen	Conventional Semen	Total
11	Taparda	16	14	3	17
12	Supa	29	21	16	37
13	Kotmara	10	6	15	21
14	Kalma	16	12	5	17
15	Chandli	6	4	4	8
16	Amlipali	27	22	10	32
17	Sankarpali	13	5	12	17
18	Pusaldsa	32	17	24	41
19	Tilgi	51	58	9	67
20	Thengagudi	4	6	2	8
21	Badimal	1	1	3	4
22	Jatari	27	39	6	45
23	Karichapar	25	66	2	68
24	Chikhali	18	25	3	28
25	Ruchida	39	60	0	60
26	Raibar	5	7	0	7
27	Birhabhata	0	4	0	4
	Total	448	463	189	652

Livestock Management Training:

To provide knowledge on improved livestock management- feeding, calf upkeeping, clean milk production and healthcare, a total of 15 training successfully organized in 14 villages. Total 533 farmers participated in the training.







Free Livestock Vet. Health camps:

Veterinary health camps were organized in six villages namely Barpali, Tilgi, Amlibhouna, Amlipali, Kalma and Sarwani village in which total 773 cattle were treated free of cost including deworming, sterilization and vaccination were done. Total 165 farmers were directly benefited from the camp. 15 nos. cattle treated for infertility cases in these camps.

Fodder demonstration:

To sensitize importance of fodder to increase productivity fodder named Hybrid Napier, Berseem and Cactus distributed to 27 farmers of six villages. Cropping done in total 1.44 acres. Berseem is known as the king of fodder because of the high content of protein (18-20%) similarly contains Napier crude protein 8-10%, crude fiber vitamin 26-28%, and



minerals helps cattle to produce more milk and remain healthy throughout their milking cycle.

Wall Painting work:



Wall painting done at identified public places in 15 villages for to create awareness among the farmers on the services provided by the LDC and points to remember for cattle rearing.

Adani's Mahila Movement for Advancement(AMMA):

Vegetable Cultivation:

Adani Foundation is continuously empowering women to improve their livelihood. Total 33 women from 19 members SHGs involved in vegetable cultivation through drip irrigation in total 3.50 acre of land of Supa, Barpali and Jevridih village.

Total 13 SHG; Supa (8 SHG- 17 members) and Barpali (5 SHG-8 members) received 2.80 acres of land from village Gauthan Samiti free of cost for 3 years and Similarly in Jveridih (6 SHG-8 members) received land from Mr. Lalit Pradhan- Bade Bhandar village an annual basis. ledae They started vegetable cultivation Tomato (variety- Saho) from Sep. 2023 with support and guidance



from Adani Foundation. Adani Foundation supported for supply and installation of mulching, manure, fertilizers, pesticides, and improved seeds/seedlings. They sold tomatoes of Rs 9.47 lakhs till March 2024; the crop is still in the field hence the amount will be more by end of the crop.

One day workshop was attended by the 08 SHG members in Hotel Shrestha at Raigarh district during June 2023. The workshop is based on modern drip irrigation techniques and challenges on tomato cultivation.

Govt. Contribution: 55% Govt. subsidy received for supply and installation of mulching fertilizer and land preparation work under Rastriya Bagwani Mission. Community Contribution:40% towards their labour, manure, 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 and oyster mushroom farming for 65 SHG members of 12 SHGs from 09 villages. Also provided information on cost benefit and marketing strategy for mushroom farming. After Tarning O6 SHGs started paddy straw mushroom farming and sold mushroom of Rs.0.96 Lakh by producing 320.15 kg of paddy straw mushroom and similarly, 12 SHGs sold mushroom of Rs.1.38 Lakh by producing 1187.70 Kg oyster mushrooms. These groups sold mushroom of total Rs 2.34 lakhs from

mushroom farming.

Community Contribution: 30% contributed from the project participants.

Exposure Visit:



One day exposure visit at Jamtikra village of Bargad district of Odisha State during the October 23 for understand the advanced and natural methodology of mushroom farming. O6 SHG women participated in this exposure visit and implement this natural technology for paddy straw mushroom farming.

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 like support 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 dresses, Salwar Suit, Designer Blouse, Petticoat, Gown, Mask, School Bag, Mobile Carry Bag, Travel Bag, Shirt Paint etc. and stitched total of Rs. 1.84 lakhs till March 2024.

Rural Artisan Pottery (Terracotta Art):

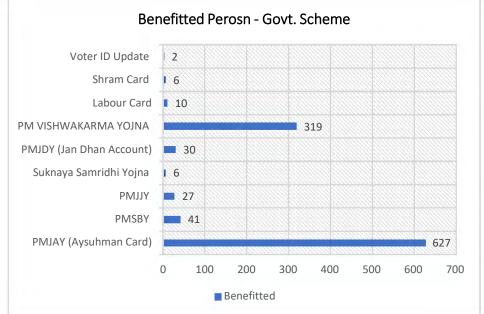


A two-month training program organized for local was artisans/potters on modern terracotta art in Chandli and Tupakdhar villages. A total of 28 potters were trained to make decorative items like Lord idol. Ganesh Bastar idol. flowerpot, waterpot, hanging flowerpot, wall hanging designs and home use items like cooker, glass, plate, designer claves,

pots. 15 potters were visited the terracotta training cum production centers of Barpali district of Odisha state during December 23. Focus of the visit is to know about the modern artefacts there, to get information about the equipment used in manufacturing and the marketing process.

Samajik Suraksha Labh Abhiyan:

Launched Samjaik Suraksha Labh Abhiyan to reach out the people who are eligible under various scheme but have not availed benefit. Main objective of this campaign is to identify needy people and with leverage govt. schemes.



Organized 22 camps in 18 peripheral villages and total 1068 people have been benefited under this campaign, out of which a total of PMJAY- 627 nos., PMSBY-41 nos., PMJJY-27 nos., Sukanya Samriddhi Yojana-06 nos, PMJDY-30 nos., Labor Card -10, Sharm Card - 06, PM Vishwakarma -319 and Voter ID (02) have availed the benefit of these govt. schemes.



International Women's Day organized at Supa:

On the eve of International Women's Day, an event organized at village Supa on 7th March. The theme for International Women's Day 2024 was "Invest in Women: Accelerate Progress" with a focus on addressing economic disempowerment across all sectors of society.



Through this campaign, there is a strong emphasis on recognizing the importance of diversity and empowerment in various spheres of society and advancing gender equality. Program organized in coordination with Bihan (SRLM) Pussore. Various activities like paper dance, musical chair and fun based games were organized to encourage women. SHG members performed Chhattisgarhi Folk dance and environment-based drama. Women were honored by giving memento for their contribution in society. Stall was also set up for the exhibition and sale of products manufactured by self-help groups. In which SHG members displayed and sold their manufactured products like - organic rice, homemade snacks items, mushroom, and different types of terracotta items. More than 150 Women actively participated in the event.

Participated in Hamara Sankalp Viksit Bharat Camp:

in Participated HAMARA SANKALP VIKSIT BHARAT state level camp at Taparada village on 26th December 2023. The camp was organized for the implementation of public welfare schemes of the Government of India. items. During the district event,





administration honored our 9 Kabaddi trainees who performed at the state level. More than 500 people actively participated in the event.

1.4 Community Infrastructure: - *Vriksha Se Vikas*

895 Mango tree saplings distributed to 234 farmers for backyard plantation and 4161 forestry tree saplings (Barqad, Peepal. Neem. Arjun, Karanj etc.) planted at community places to increase green coverage. Observed World Environment Day on 5th June in 03 Govt. Middle School Bade namelv



Bhandar, Supa and Kathli. SHG members, parents, & panchayat representative were actively participated in plantation drive, Selfie with Saplings, took an oath to protect the environment by students, parents and panchayat representative and awareness rally organized from Bade Bhandar School to Plant Main Gate and more than 160 students participated from 03 schools.

Similarly, at ITI Saria, tree planted inside campus and various activities organized on this day. Total 5056 tree saplings planted under "Vriksha Se Vikas". *Pond Deeping:*



Excavated three ponds of Bunga, Ruchida and Putkapuri villages to increase rainwater retention capacity by total 16262 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.

Construction of community Center:

Sarwani village:

Adani foundation took up work to complete balance work of community center at village Sarwani. The construction work is completed in July 2023. The area of the center is 15.500m X 6.50m. Around 460 people of Sarwani can take benefit of the center. The center can



be utilized for organizing social functions, meetings, and training programs etc.

Bade Bhandar village:



In Bade Bhandar, the villagers organize their social, cultural programs and gatherings throughout the year. As per request of gram panchayat community shed constructed Shani Mandir near for community use to perform various social and religious programs and activities the area of the center is 12.0m X

21.0m. Total 1198 people of Bade Bhandar benefitted of the shed.

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Construction of CC road:

Gram Panchayat Birhabhata and villagers had requested to construct CC road from Sarwani to Birhabhata approach road. Road condition was damaged in all rainy session villagers and students were face many problems to travel on this Road. Adani foundation constructed this approach CC road (900 meter) from Sarwani to



Birhabhata village. At present, road transportation has become easier for villagers and school going students. People of both the villages will be benefited and will use this road for transportation.



Playground Construction:

Constructed playground at Amlibhouna village to promote local youth for games. The playground construction area is 120.0 m x 90.0 m. More than 150 local youth can take benefits from this ground and use for daily practice, organizing local tournaments like cricket, football,

and volleyball etc. It's helpful to create sports environment and participation level in local youth for sports.

Girls Kabaddi Training Program:



The main objective of training program is training local girls' youth for participate in state and national level Kabaddi tournament and developing as a most valuable player. After preselection test total 50 girls out of 90 were selected from 09 different schools and 15 nearby villages.

Total 60 Kabaddi training session were organized. Training provided by state level kabaddi coaches. Total 11 girls trainee from Kabaddi training program has





participated in the state level Kabaddi tournament held at Blaod and Raipur. One Girl selected for "Khleo India Rural Indigenous National Games at Odisha. Won the district level Kabaddi Tournament in Chakradhar Samarth-Raigarh. Gilrs Kabaddi team also participated in various block, district and open Kabaddi Tournament and perform well.

Celebration of National Sports Day:

National Sports Day is celebrated every year on 29 August 2022. To make this day memorable and to encourage youth specially girls towards sports, a girl marathon was organized in village Bade Bhandar, More than 100 schoolgirls from 05 villages enthusiastically participated in this event. The program was inaugurated by the Mrs.



Moharmati Sidar (Sarpanch-Bade Bhandar) in the presence of panchayat representatives, school staff, students, sports teachers, and dignitaries from peripheral villages.

1.5 Special Programs: -

<u>Adani Saksham:</u>

Girls and women living in the peripheries of plant are deprived of opportunities to be engaged in qainful employment and financial independence. They lack employable skills due to lack of skill building institutions in nearby area and support for systems skill



development. Lack of awareness equipped with low levels of knowledge is also identified as one of the root causes of the existing situation. Tailoring is age old



professions and liked most by the girls and women. With this, self-employed tailor (SET) course started through Adani Saksham. 100 girls trained in cutting and stitching of the cloths from 21 peripheral villages. Many of them are self-employed and working from their home. This is a three months course, during the course many extra-curricular activities were organized to keep them motivated and overall personality development.

Sr. No.	Gram Panchayat	Village Name	Total
1	Bade Bhandar	Bade Bhandar	5
2	Chhote Bhandar	Jevridih	4
3	Bunga	Bunga	21
4	Barpali	Barpali	4
5	Supa	Supa	2
6	Charpali	Charpali	3
7	Chikhli	Chikhli	3
8	Tilgi	Tilgi	15
9	Tetla	Tetla	1
10	Puslada	Pusalda	13
11	Badimal	Badimal	1
12	Karichapar	Karichapar	1
13	Taparda	Taparda	1
14	Chhote Bhandar	Amlibhouna	2
15	Chandli	Chandli	12
16	Barhaguda	Barhaguda	5
17	Kalma	Kalma	2
18	Hirri	Hirri	1
19	Belpali	Belpali	1
20	Siha	Siha	2
21	Nawapara	Siladi	1
		Total	100



1.6 Case stories: -

The Rise of Bhumika Sidar: A Story of Perseverance and Success in Kabaddi



Kumari Bhumika Sidar, a young tribal girl from the small village of Bunga in Raigarh district Chhattisgarh, received kabaddi training through the Adani Foundation's "Utthan Khelkumbh Kabaddi Programme." Her Training talent. relentless dedication and support of Adani Foundation paid off as she was selected to represent Chhattisgarh in the Khelo India Rural Indigenous National Games 2023 held from 9 to 12 June. The tournament, organized by the Government of India and the Ministry of Culture, showcased indigenous athletes' skills. Kumari Bhumika played a vital role in her team's success,

helping them secure third place. Her inspiring journey from a small village to national recognition demonstrates the transformative power of sports and serves as a source of inspiration for aspiring athletes.

About the National Game:

Khelo India Rural and Indigenous National Games 2023 is being organized by Government of India, Ministry of Culture, New Delhi in collaboration with Kalinga Institute of Social Science Bhubaneswar from 9 to 12 June 2023 in Bhubaneswar.

Empowering Women through Group Farming - The Success Story of Shiv Shakti Sahayata Samuh:



In the small village of Supa, the lives of Madhuri Sidar, Chandrika Ratre, Arathbai Sidar, and several other members of the Shiv Shakti Sahayata Samuh were transformed when the Adani Foundation team introduced them to the concept of group farming during a Self-Help Group (SHG) meeting. This success story showcases how their journey from struggling to make ends meet to becoming successful vegetable farmers has brought about a positive change in their lives and the lives of their families. Before the intervention of the AF team, Madhuri, Chandrika, Arathbai, and the other women of the group faced numerous challenges in their agricultural pursuits. Limited knowledge, lack of resources, and financial constraints restricted their farming potential, hindering their ability to generate sufficient income. Their aspirations were curtailed, and their families' faced hardships, especially regarding education and financial support.

Introduction to Group Farming and Transformation: The AF team recognized the potential of the Shiv Shakti Sahayata Samuh and introduced them to the concept of group farming. Equipped with basic training and financial support, the women embarked on their journey to cultivate tomatoes on 1.40 acres of land. With dedication and perseverance, they nurtured their crops and were rewarded with a bountiful harvest.

The efforts of Madhuri, Chandrika, Arathbai, and their fellow members of the group bore fruit, both literally and figuratively. They successfully sold tomatoes worth an impressive Rs 4.79 lakh, earning an average income of Rs 4000.00 to Rs 5000.00 each. This newfound financial stability has enabled them to support their children's education and extend vital financial assistance to their families, thereby breaking the cycle of poverty and creating a brighter future.

Buoyed by their success and the financial independence they achieved through tomato cultivation; the women of Shiv Shakti Sahayata Samuh are now eager to further expand their agricultural ventures. Encouraged by the profitability of their tomato farming, they aspire to cultivate various other vegetables, broadening their product range and potential customer base. Their determination and ambition reflect their commitment to sustaining their newfound success and improving their overall livelihood.

The success story of Madhuri Sidar, Chandrika Ratre, Arathbai Sidar, and the members of Shiv Shakti Sahayata Samuh exemplifies the transformative power of group farming and women empowerment. Through the guidance of the AF team and their collective efforts, these women have not only become successful vegetable farmers but also catalysts for change in their community. Their hard work, resilience, and desire for progress have not only improved their lives but also instilled hope and inspiration in others, setting a shining example for future generations. With their eyes set on a prosperous future, they continue to embrace opportunities for growth and pave the way for a brighter tomorrow.

1.7 Media coverage



पास के न र की राष्ट्र कार्यक्रम लिमिटेन एमआर इजाई अदाणी प्रोजेक्ट तत्वान के तहत

एपीएल के परियोजना के मार्ग्स्टर एपिएल के बारवा-त प्रामी के आसवीय प्राचीमक रव प्राम के बारवरी प्राचीस भीगा, बरवानी, जेक्सीवीट मुप् भीग, बरवानी, जेक्सीवीट प्राप मुप्प और कठती में 12 जनवरी सुपा और कठती में 12 जनवरी स्वाजी के प्रेरण स्वात स्वाती क उपलस्थ में कार्यक्रम आयोजन किया गया मार, मृपा बहे नवरी वामी वामी

गुरुआत में भाग तिया। कार्यक्रम युरुआत में इन सभी कियाधियों कवामी विश्वेष्ठनवंद के युका विश्वार्थ वंदेशों को जागकलता देनी भी भी गयी। कार्यक्रम केन प्रमुख 1 गोगी और खामक मा गाम के विचा रेश की ररना #78 刊

×ñ गणा भाषस्य अनुमार, उन्होन सदस्य म्बहुल समिहि तिम् और को है। स में

मारुवमिक विद्यालय के उ सिराग ने कहा कि अदाणी उत्पान पीनेकट के तहन पारुवम में न कंतवल छान्नी विकास हेतु प्रथास को जा विकास दिवासी पर लिभि गरिप्रविधियों के आयोजन स हेतु प्रथ दिवसी बंधियों के के सर्वाग कार्यक्रम का संवालन पूर्णन्दू जुमार कार्या के कार्यवर्णन में किय

अदाणी फाउंडेशन ने 50 बालिकाओं को कबड्डी किट्स का किया वितरण

टगा इन्हान टाइ पुत्रान कांक प्राप्त कांक्राओं भारत में क्र पंजियार जी क पंजिया के प्राप्त बालिकाओं में कबड़ी खेल के प्रोत्साहन हेतु कबड़ी प्रशिक्षण कार्यक्रम व नेक तमा का तमा का दा का दार्थन का का दार्थन का का दा का का का का प्राप्त का



्यून वर्ष स अभिवेतिक की उपयोग्धन र किया गया यूप्य अधिक भौगोर्डी से अपने प्रदीपन प राजीक कि उपने प्रदीपन

अदाणी फाउंडेशन ने स्कूलों में मनाया बाल दिवस



कबडडी प्रतियोगिता के महिला वर्ग में अदाणी फाउंडेशन ने दिखाया अपना जौहर

रायगढ़। चक्रधर समा दिवसीय जिला स्तरीय महिला -कबहडी प्रतियोगिता का अ शहोद कर्नल विष्लव त्रिपाठी सं में किया गया। गुरुवार को हुए फा मुंकाक्ते में पुसार क्लोक को अर फाउंग्रेशन की टीम ने 31 पॉइंट्र जीत सामित की है। जोत हासिल को है। लोग पद्धति से खेले गये इस कब्ध के मुकाबले में महिला वर्ग में आठ टोग ने भाग लिया। जिसमें पुसीर विकासखे से अदाणी काउंद्रेशन ने प्रतिनिधित किया। इसके अलावा जिले के अन्

में अटगा कारोजन ने प्रातिरिधन किया इसके अलख बिते के अन्त क्षाव्य देने प्राप्य कुलायन, तिन्ता भागव कर रोज कि कि अन्त भागव कर रोज कि कि अन्त भागव कर रोज कि कि कि अन्त भागव कर रोज कर रोज कि कि कर राज भागव कर रोज कर राज भागव कर रोज कर राज भागव कर राज कर राज स्वाध कर राज कर

मनोरंजनात्मक और समग्र शैक्षणिक विकास हेतु अदाणी फाउंडेशन नि:शुल्क समर कैंप से 150 विद्यार्थी लाभांवित

रायगढ, 14 मई। अदाणी फाउंडेशन द्वारा गर्मी की खुट्टी में बच्चों में अतिरिक्त शिक्षात्मक तथा पाठ्येतर गतिविधियों के विकास के लिए पुसौर तहसील के आठ शासकीय स्कूलों में ग्रीष्म कालीन समर कैंप का आयोजन किया जा रहा है।

प्रोजेक्ट उत्थान के तहत् दो चरणों में आयोजित इस नि:शुल्क ग्रीष्म कालीन कैंपों

में प्रथम चरण का शुभारंभ प्राथमिक शाला, सरवानी में किया गया। जिसमें 1 से 13 पई तक अष्टाणी पाखा लिप्रिटेड (एपीएल) रायगढ़ के पास के ग्राम अमलीभौना, सरवानी, बड़े भंडार, जेवरीडीह और सूपा सहित पाँच शासकीय प्राथमिक शालाओं के 150 से अधिक विद्यार्थियों ने भाग लिया।

इस शिविर का मुख्य उद्देश्य शिक्षा के क्षेत्र में गुणात्मक सुधार और मनोरंजनात्मक वरीके से विद्यार्थियों के समग्र शैक्षणिक विकास को गति प्रदान है। इसके दितीय चरण रावाणका विकास का गत प्रदान हो इसका द्वताय वरण का आयोजन 01 से 07 जून 2023 तक ग्राम बड़े भंडार, सूपा और कठली के पूर्व माध्यमिक शालाओं में किया जाना प्रस्तावित है।

तेरह दिनों तक चलाये जा रहे इस समर कैंप में उत्थान

सहायकों द्वारा बच्चों को कहानी लेखन, समूह पाठन, कॉस बर्ड, कॉपी लेखन कार्य, इत्यादि पाट्यक्रम संबंधी विषयों के साथ ही उन्हें विभिन्न प्रकार के पाट्येतर गतिविधियों जैसे चित्रकला, पेपर बैंग, आईस्क्रिम के स्टिक से कलाकृति बनाना, ग्रीटिंग कार्ड बनाना, दैनिक जीवन में पौष्टिक आहारों की जानकारी, सलाद सज्जा इत्यादि शामिल किया गया 吉

इसके अलावा शारीरिक और मानसिक विकास के इंडोरखेल जैसे कि कैरम, शतरंज, डांस, संगीत, योग, व्यायाम और ध्यान के महत्व तथा अभ्यास, दैनिक जीवन में व्यक्तिगत स्वछत्ता के

महत्व के बारे में भी जानकारी दी जा रही है। इस दौरान कैंप में सभी छात्र एवं छात्राएं अत्यधिक

उत्साहित होकर हर क्रिया कलाप में भाग ले रहे हैं, वहीं उनके परिजन भी इस आयोजन से खुश नजर आ रहे हैं। कैंप के प्रथम चरण के शुभारंभ समारोह में मुख्य अतिथि के तौर पर ग्राम पंचायत बरपाली एवं छोटे भंडार की सरपंच ऋमश: श्रीमती शशि सिंह और श्रीमती सतरूपा चौहान शामिल हई।

में खेलों के प्रोत्साहन के लिए किया दौड़ का आयोजन प्राथमिक तथा मीडिल स्कूलों की छात्राओं सहित 100 से अधिक लोग हुए शामिल

राष्ट्रीय खेल दिवसः अदाणी फाउंडेशन ने क्षेत्र की बालिकाओं

afre

इम्प्रात टाइम्प्र) राथगढ़। सप्ट्रीय खेल टिक्स के अवसर पा जिले के पुसार ब्लॉक के बाने में अदाणी फाऊडेसन द्वारा क्षेत्र को बालिक्स् में में खेलों को प्रोत्साहित काने हेतु दौड़ का आयोजन किया। अदाशों पॉकर लिमिटेंड के सामग्रीजेक सरीकारों के तहत परस के ग्राम बहे भंडार में स्थित स्वामी प्राणमाने भाषणि अधिक आत्र के सिंह अधिक के आत्र के सिंह अधिक कि अधिक के अधिक क



कार्यक्रम का आगीतन की उँमा विकासदोई में सावतिक सरोकसी कुमा नगक एवं तरिप्रम स्विद्धन के काठा निष्ठा, स्वाप्त्यन सारेहर्गन में किना गया कार्यक्रम का सरका बनते के पूर्व पार्ट के आर्वोतिका संवर्धन और को सरका बनते के पूर्व सारे आर्थोसंपर्या शिक्षम के कई विस्कीसिटी टीम एवं भदाणों कार्यक्रम मंत्रीका कपा है। बजे प्रिटक संयक्षाल में किसा टीम का प्रिटक संयक्षाल में किसा टीम का प्रतिक्र संप्रधान में किसा टीम का स्वर्थन संप्रधान में किसा टीम का स्वाप्तान विस्ते के प्रदर्शन प्राप्ता के प्रित्त का स्वाप्तान रिवर्स के प्रदर्शन प्राप्ता के प्रित्त मिया में कर सहा है।





समर के Eld 10 6629

विश्व स्तनपान सप्ताह : अदाणी फाउंडेशन पुसौर ब्लॉक के ग्रामों में आयोजित कर रहा जागरूकता कार्यक्रम



जल संचय के लिए अदाणी फाउण्डेशन ने किया तालाबों का गहरीकरण

adan

तातार गार्राव्सन

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फाउदेशन द्वारा जिला प्रशासन धर्व जनप्रतिनिधियों के अनुसोदन पर गहरीकरण का

कार्य ग्रोचा अनु में सूरु किया गया था, जिसका अनुमादन ग्राम कविदा के सरापंत देव कुमार साह

और प्राप्त जुनगा की सरपंत्र बीमती कस्तुराव सिदार ने अदाणी द्युप के अधिकारियों एव

मिदार ने अदाणी युप के अधिकारियों एव प्रमाणों को उपस्थित में तोन्द्रे त्याज्यकों की पूछा-

कार्य

खआतिम करता है।

अचेना कर फिन्हा पंता। एउडडेवान छरा फ

गयगढ़। तालाभ प्रामीनों के देनिक के अभिन्त भी हैं, जिसका उपयोग त्वयोणी द्वरा विधिन प्रयोजनों के निषा किया जात्व है। क्यों जिल्ले के पुगोर के राजव किया जात्व है। क्यों जिल्ले के पुगोर विकासकार में भू-अल के लगात्वार कृषि साहित अनेक प्रयोजन्व मे त्रप्रांग से भू-जल स्तर दिन प्रतिदिन गिरता जा रात है। साथ ही चिट्ठे के तलखर्रकरण के कारण मौजूदा तालावों में जल संग्राण क्षेत्र भी कम बेता वा रक्ष हैं, जिससे क्षेत्र में जल की समस्या बड़ों जा फी हैं। अदमी फाउडेशन ने इस समस्या को सजान में लेते हुए इसके समाधान क लिए पास के खामा में अतिरिक्त अस संवय रियर तालाको का राहरीकरण करणे कराया ता an ti

अयाची पॉका मेनीवटेद, तयगढ खम्होजक सबेकारों के तहत क्रम पंचायत खेंचदा, यूनगा और पुटकापुरी में स्थित कुल तीन तालायों का मार्गकरण किया गया है। इस फाल में इन प्रामी के तालावी की भू-अल मंचय भ्रमत में ज़ॉद हुई है, जिससे अब लगभग 16262 क्योंबक मोटर जल का अतिरिक्ष धदारण होगा। इसक साथ ही त्यलाकों में भू-जल स्तर सहमें से कृषि सम्बरेन्स्त और संबेशियों की जागल्यफ बाग भी पुत्रे हा सकेगी। जन्मणी

सामाजिक सहभागिता के विभिन्न जनसरोकारों को अंजाम दे रहा अदाणी फाउंडेशन

चंद्रपुर में श्रद्धालुओं के लिए नौ दिवसीय नि शुल्क चिकित्सा शिविर का आयोजन, तमनार तहसील में किशोरों के लिए तीरंदाजी प्रशिक्षण व विश्व हस्त प्रक्षालन दिवस

रायगढ़। जिले के पुसौर और तमनार विकासखण्ड में अदाणी

प्रवरण्डा किले के पुसौर और मनगा विकासवण्ड में अदाणी फाउँहान द्वारा सामाजिक सरोकारों के विभिन्न कार्यक्रमों का आंगवन किया या ही । यहाँ सेम्म-सम्पर पर सायुप्यार्थिक तरा पर भी रपोगकार के कई कार्य मंगरित किर वा रहे हैं। इसी कही अध्याप्ये सोडोवन को ओर के अपा तहसीन में आराय्यी नमाप्र के अवसर पर मीं कंडतीस्त मंदिर में आगे वर्षांक इडाल्ड्रों के लिए में दिवर्भय ने मुलाक चिक्रमा कोरित और राष्ट्र वी कडाती के अंताहिय प्राप्तेय प्रतिशा पिटन, किस्मोरे के लिए गौरायती ग्रीकान के स्वार पर मीं कंडतीस्त में आगे वर्षांक द्वारा कुसी के जिसमय ने मुलाक चिक्रमा कार्याजन किया का राज्य है। मक्सी दिवों के रुभग सहस्तर में आगे वर्षांक का तरा है। मक्सी दिवों के रुभग सहस्तर में आगे वर्षांक को प्रतिक दों के आये जयरात्र के पाल भारता पर प्रदेश की प्रतिद्व में बदाय को स्तार प्रतिशा से बिक्रा गाया। क्यारा में दियों के दाने के लिये आने वाले स्वारा प्रत्य मां किश्चा सुविध्या अध्यात्र आवस्त को लिख्य पहुंने पर प्रथम चिक्रिमा सुविध्या का अप्रवृत्त को को थी। नी दियी तक्ष प्रतिदिन प्राप्त 11 में प्राप्त 5 किये को ने कि आये कार्य भारतीय स्तार मां किस्ता सुविध्या अप्रवृत्त के गोपाल वो मां शार्य ने दिवर मंत्री के सार्य कर्या के देखरेगत का ज्या सुद्धार प्राप्त में दिय स्वानि से की सीतिस्ता सुविधा अप्रता का ना को नी दित्र प्रत्य में सार्य किस्ता सुविधा अप्रता का या सुद्धार प्राप्त में होदि स्त संवर्ध सिक्रस सार्य 2 अप्रवृत्य कि को गोपाल की सार्य प्राप्त प्राप्त था स्वानुकों की सित्रसा सुविधा अप्रता का या ना सुवराप्त प्राप्त भाराय संत्री सिक्रसा सुविधा अप्रता का या ना सुवराप्त सार का अप्रयाप्त प्राप्त अप्र संत्री सिक्रस स्वाय्य उदा स्वर की देखरेग्र किया का सार्य सुवर प्राप्त प्राप्त का सिन्तु सिक्र काराक हा प्रायत को वोर्य सार्य सित्र सा स्तार अप्रत्य प्राप्त का स्वराप्त प्राप्त का



त्रण समय ये पुत्र कर लिया गया है जिसकी आव

वर्षा तालु के प्रारंभ होने पर इन तीनों तालाकों में पाने का भगव भी होने लगा है। अदावनी

कार्याजन ने हमेजा से पर्याक्रणीय समस्याओं

को कम करने के लिए व्यक्तिगत और प्राय स्तर

पा जागरूकता अभियान चलाया है। इसके साथ

ही जान सरधण के लिए लोगों को संख्या बनाना 'ये कार्यक्रम का जोटा है। ज्यॉलरण चरधल को

बदावा देने के लिए तालानों के मेहों पर छाणदार पौथे लगाने का कार्य भी अदागी फाउडेशन इस

किय जा रह है। असली फाउद्रेशन क्षेत्र में

निर्गामन मामानिक स्तर्ग्यायत्व क अनगरंत

तिथा, स्यारम्प, जीविकोपार्जन, अपोपलयना विकास, के साथ-साथ जरू सबय और वर्ताक्षरब संख्या से सम्बर्जियत बाई वार्षकाय

लवानकर, स्व. मुकुटधर पाण्डेय स्पृति सेवा समिति के सदस्यों, अदाणी पॉकर लिमिटेड के महाप्रवेधक- एचआर पनरयाम दास गर्ग तथा अदाणी फाठीवान के प्रसन्न पणैन्द्र कमार की उपस्थिति में संघल लामटेड के महाप्रबंधक- एचआर यात्रवाम वास गर हिंगिरेड के महाप्रबंधक- एचआर यतत्रवाम वास गर हिंगिरा के प्रमुख पुणेन्दु कुमार की उपस्थिति में संपन्न योक वार्णवेन ्यूज पुण-5 कुमार को उपस्थिति में संघ हका सरातनीय पायल रहा ताता के लिपना यहां पत्र हकार जन्नानुओं एवं आसपास के लोगों ने चिकल्स परायर्थ शिविस से लाभ प्राप्त विषय था। स्वरिक्य प्रा

महिला संशवितकरण को बढ़ावा देने अंतर्राष्ट्रीय गामीण महिला दिवस का आयोजन

अदाणी फाउण्डेशन द्वारा जिले के तमनार बनाँक में रविवार को अंतराष्ट्रीय ग्रामीण महिला दिवस मनाया गया। 'रूरल वमेन

गहिलाओं ने भाग लिया। इस कार्यक्रम मे भाहताओं पा भागा गायगा इस भागजात न महिलाओं को प्रोत्साहित करने के लिए विभिन्न खेला प्रतियोगिताएं करायों गयो, विसमें महिलाओं ने बढ़ चढ़ कर हिस्सा लिया। कार्यक्रम के दौरान सभी महिलाओं ने अपने अपने बारे में के तौरात सभी महिलाओं के अपने अपने को भी जायात साथ अपने आपने के उसके अपनार जाते, योलियों तथा रोतकगोतों के पाथरा में सभी के सामने अपनी काला का प्रदर्शन किया। इस अपनार पर गीकबल टीयन होया भीतिलाओं का अपनार पर गीकबल टीयन होया भीतिलाओं का अपनार पर गीकबल टीयन होया भीतिलाओं का उंदा महिलाओं को आपरिक, प्रानायों का रीतिक विकास के तिए में आपरानेए बानाने के विदिश्व कर्मा के बारे में बाराया । आपराक्रम के उसे में दोरा होरायोंगत में जिन्दान के साह को रोटा में आपराक्र का का में दोरा होतायोंगत में जिन्दान के साह में बाराया । अपनिक्रम के उसे में दोरा होरायोंगत में जिन्दान

के बार में बताया व्यावस्थ के अठ म खेल झापयागीग में विषया होंगे बाली सांगी माईलज़ों की प्रमुख्त किया गया मां जिसमें उसम ज्यान मैम्माने, दूसरा स्थान लड्जा है दा तो त्या तोसरा स्थान चंडाली राठिया ने प्राप्त किया । इस कावक्र ममें मीडिकल टोम से दी देवेव्द प्रदेश तथा एसपीओ सुमित साहू सहित सोएसआर प्रमुख देवेन्द्र दूसे, आंपला राधी, काविकेश्वर मालाकार तथा समस्य सोएसआरोटी मांजूद थी।

निःशुल्क तीरंदाजी प्रशिक्षण के द्वितीय बैच में 15 बच्चो

जनकर्म न्यूज।

विकासखंड में चलाए जा रहे निःशुल्क तीरंदाजी प्रशिक्षण केंद्र में द्वितीय बैच के लिए प्रवेश प्रारंभ हो गया है। जासकीय स्वामी द्वितीय वर्षव के लिए प्रवेश प्रारंभ हो गया है। शासकोय स्वाम्मी कालमार्थद विष्णवाल में स्वाप्य तारं 52 का गीरांदाती प्रतिक्षण केंद्र में राणिसार को आगोतिका एक प्राप्त तिर्वास में अंद्ररा 17 उम्र के आत विष्या गया। इन डिव्लाहियों को जीरांदानी में राष्ट्रीय स्तर पर छेल कुके कोच सर्वच तिर्घ सरकाम क्षम प्रतिदिन प्राप्त: व साथ की ने देने प्राप्तीलय प्रयान किय जाएगा। अवाणी भावडीत्वन के कोल आवंदी तलब के संविध कयाय के तेतूत्व यह प्रतिवाद के कोल 1 हा स्व व्यावेक में अवाची उंटराजीत लिपित्व प्रतिक्षा के परियोक्ता प्राप्त में व्यावी तरंगता अपने प्रति के स्व के परियोक्ता प्रमुख मगीक सिंह, आयानंदि स्कूल के प्राप्ति किया (गोत)को (त) स्वतान क्षा प्रोप्त प्राप्त किया (त) अनुदिक्क तोलल की तकारना तराम तिरक्ष प्रयान प्रतिक्रा किया कि प्रत्

कोलम में मनाया गया विश्व हस्त प्रक्षालन दिवस अप्रास्कोय उल्लाह एवं पूर्व नाथवास्त विधालन कोछम के विधालय परिस्स में विश्व हाल प्रश्नालन दिवस मलाग गा॥ सोमवार को आयोतित एक कार्यक्रम में स्कूल के 200 जलवी ने आग लिया। जिसमें जीवर देवेद गरेल हाला हाथ भोने का सही तरीका, समय और हाथ भोने से होने वाले जावर के बारे में बलाग पा। उस दीरान सभी बल्चों को स्वरुक्त के साम में बुद्धने के लिए प्रेरिक कर शामय अहल कराया गया। इस कार्य के जाने के लय परिसर के प्राचार्य एवं प्रधानाचार्य उपस्थित थे। कार्यक्रा नाने के लिए हेल्पेज रहिया वे

अदाणी फाउंडेशन की एमएमएचसीयू से वृद्धजनों 🍱 को घर बैठे मिल रहीं निःशुल्क स्वास्थ्य सेवाएं



रायगढ़। जिले के पुसार क्लॉक में अदाणी र्वडेशन द्वारा चलाए जा रही मोबाइल मेडिकल हेल्थ केचर यूलिट (एमएमएचसॉयू) से ग्रामोग समुदायों में विशोध कर वृद्धवनों को महत्वपूर्ण स्वास्थ्य सेवाएं कई वर्षों से प्राप्त हो रही स्वास्थ्य सवार कर वर्षा से प्राप्त हा रहा दे हैं। रविवार 01 अक्टूबर को अंतराष्ट्रीय बृद्ध दिवस के अक्सर पर प्रयाद्धदे गेराज द्वारा वारो को पई इस वर्ष को धीम 'वृद्ध व्यक्तियों के लिए मानव अधिकारों को ध सार्वभौषिक धोषणा के वारों को पींदियों

तक पूरा करनी को अदाणों फाउँदेशन को आसपास के 18 ग्रांमों के लगभग 18500 वाली किसी भी खेंगारी को बुद्धारे को इस प्रहल ने चरितार्थ किया है। आवापी पॉयर लिमिटेड, रायगढ़ के ग्रांमों में वाकर दि: शुल्क स्वास्थ्य सेवाएं केंद्रों तक नहीं जा पाने एवं आधिक तंग सामाजिक सरकारों की प्रतिबद्धता के तहत संचालित कई कार्यक्रमों में से एक अच्छी स्वास्थ्य सेवाओं के अंतर्गत क्षेत्र के बृद्धननों की स्वास्थ्य समस्याओं का समाधान किया जा रहा है। £ι समाधार करा वा रहा हा। अवाणी फाउंडेरान द्वारा एसएमएचयु की अदाणी फाउंडेरान के एसएमएचसीचु द्वारा सदर में प्राप्त केंद्रे भंडर, चर्ड भंडर, सुगर, न रिप्तर्फ क्षेत्र के बुकुर्गी की स्वास्थ्य की असलीभीना, कोतमरा इत्यादि सहित देखभाल की जा रही हैं बल्कि उनमें होने

दों जा रही है। वहीं अभी तक लगभग 3000 से अधिक वृद्धवर्गों को पंजीकृत कर उनके स्वास्थ्य की देखभाल तथा दवाइयों भी उन्हें घर बैठे उपलब्ध करा रहा

के कारण दवाइयों को न लेना इत्यादि के ने कारण देवादेवा की निया जो रही है। यह लिए जागरूक भी किया जो रहा है। यह जीवनदायनी कार्यक्रम सीएसआर के अन्तर्गत अदाणी फाउंडेशन के सहयोग से हेल्पऐज इंडिया सभी 18 ग्रामी के ग्रामीणी विशेष कर महिलाओं, बच्चों एवं वडावनों के स्वास्थ्य और कल्याण के प्रति प्रतिबद्ध



मां चन्द्रहासिनी मंदिर में नौ दिवसीय

निःशुल्क चिकित्सा शिविर का आयोजन

विकलता परमण शिवस का आयोजन रहिलार से किया गया। नवरात्र में देवी के दर्शन के लिये आने बाले अद्रासुओं एवं भकों को आकरिमक स्वास्थ्य उपधार को जरूपत पहने पर प्रथम चिकित्सा सुविधा त्वरित उपलब्ध कराने के खेला में सुरुवया स्वरत उसराज्य कहान क उद्देश्य से लगाए गए इस शिविर की शुरुआश 15 अक्टूबर से की गई। भी दिनों तक प्रतिदिन प्रात: 11 भी दिनी एक प्रतादन प्रतः 11 में साम 5 बजे पार्ले जाते इस चिकित्सा शिविर का आयोजन 23 अवरूपर तक झी गोपाल जी महाप्रभु एनं चन्द्रज्ञासिनी देसी मरिंद सार्वजलिक न्यास के आयक्ष झो गोजिंद आग्वाल जी प्रथं समस्त

न्यासियों के विशेष सहयोग तथा न्याययों के लिशेष सहयोग तेखें। स्व. पृकुटधर प्राण्डेंश स्मृति सेवा समिति बंद्रपुर की देखीख किया जा रहा है। शिविर में ब्रद्धालुओं को चिकित्सा सुविधा अनुभवी एमर्वोधोएस डॉक्टर एवं पेटिकल स्टाफ द्वारा प्रतन को जायेगी एवं

त्वानका, तब, मुकुरार पाउँदेश त्वाका, तब, मुकुरार पाउँदेश इम्राइवे प्रेय समिति के सदस्वों, अराणी परिव लिमिर्टड के मुझाइवे प्रेय एम्राझ भी पाउँदू भूतर की उपरिजालि के संरोध कुरार की उपरिजालि के संरोध का ही कि जिड़ने वर्ग लिगभ मा पल स्वार अद्धानुओं पूर्व आगस्त के को मी विकिस्ता प्रसार्ध लिसि से नेपा प्रान्तिय की पाय किया था। द्योक हुए। प्रदेश को जालगा एवं कुरस को उसकाल में पर प्रदान को जायंगी। जिकिस्सा प्रप्लेश्वर पूरा दसमें विसेक पाउँदा प्रदान को जायंगी। जिकिस्सा प्रप्लेश्वर पूरा दर्श निर्णत कु सित्राप्र एवं प्रद्रप्रतिमी देशी जातों के साराजीय योगदन रह स्वारंग सार्वजनिक न्यास के एक हजार प्रदानुजी एवं जापत जारिया सार्वजनिक न्यास के एक हजार प्रदानुजी एवं जापत अनीव पाण्डेय, डॉक्टर सिंक सित्रिय से नाथ भ्रा किन्या था।

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नौंवां अंतर्राष्ट्रीय योग दिवसः अदाणी समूह ने छ.ग. में आयोजित किये सामुहिक योग के कार्यक्रम

अदाणी फाउंडेशन ने राज्य में स्थित अपने सभी कार्यालयों सहित ग्रामों में भी लगाए योग शिविर



पा। विसमें स्वतुत के बच्चों और स्वानीय प्रामोर्ज संतित कुन 52 लोग जातिन को सकल बनाने में याम बड़े भंडार के मरपंच, विप्रालय के प्राच्चे एवं प्राचीयक विकिस्ता जेट के प्रभाग बा विवेश सात्र्यंग प्रा प्राचीयक विवेश सात्र्यंग प्रा वित्रि में अदानी काइजेहता को येन ने वादोक्य को सज्जम वाने येन ने वादोक्य को सज्जम वाने ये महावीरता प्रदा करने के लिए स्वेम करों का आपा एव भववाद ज्ञापन किया।

अदाणी फाउंडेशन द्वारा प्रोजेक्ट उत्थान के तहत 600 बच्चों को कॉपियों का वितरण





शाला प्रवेशोत्सव कार्यक्रम के दौरान साथ ने अदानी फउँडेशन द्वारा चलाए जा रहे लेखन,पठन, पाठन, सरीत बाह्यपत्र इत्यदि को शाला प्रवेशोत्सव कार्यक्रम के दौरान कल स्कूल में प्रवेश लेने वाले नए विद्यार्थियों को उत्थान प्रोगेकट की सराहना की एवं विभिन्न सामग्रियों भी उपलब्भ करायी गयी है। कार्यक्रम के आयोजन में अदार्ण

संकल प्रभारी एवं शासकीय उच्चतर ालगण्ड, पुथ जरा भारता के बुता जत प्रभागायानक का पंत्रसावन भटत, आगमक उनक संख्या कालग का भाषाय में उपयों जिस्सां, सामसोप प्राव्यक्ति विद्यालय एवं सामसीय साल के प्रधानायागढ़ औ हुदानंद पटेल, बहने के लिये प्रोसाहित किया एवं सभी बच्चों सामाहिक संप्रमाहित के उनंत गुणवतायुक्त पूर्व मार्थ्यक विद्यालय पंत्र सामस्याय में अदायों पांत्र बेदिय वर्ष रावे एवं की उनके उन्याय पांत्रपर में विषय के विश्वानव्यन शिक्ष विभाग, पुरीत के समस्याय में अदायों पांत्र परिते व्यक्ति वर्ष रावे एवं के लिये प्रात्रा हित के विश्वानव्यन शिक्ष विभाग, पुरीत के समस्याय में अदायों पांत्र रागाह से एवं करा त्र कर के उनके प्रात्र विश्व किया के उनके प्रात्र साम स्वार विश्वानव्यन शिक्ष विभाग, पुरीत के समस्याय में अदायों पांत्र लिपिटेंद, रागाह से एवं कर रावे कि तिनमें उन्हर सामया विश्वा का रावे कि विश्वान मुख्य उद्याय कर सुपाल के स्वार्यक्र प्रात्र के उनके उनका से प्रात्र के स्वार्यक के स्व लिये भा एक तो स्वरण गुरु करदेव का अनुवाज नगरमा करा गा जा गाएलवार आगर उपया भा करता कार्यना करता ना स्वाता कर एक त सामूने बाते करवा में अपापरमुत सवारता एवं प्रमुख गुर्यनुद्ध मां जर्मस्वत थे। द्वारा स्वति करता के स्वाता में प्रदेश सुविध को द्वारा स्वात कर के तो स्वाता से स्वात करता की स्वा संख्यात्मक द्वारा की वहता है। कररतेका में मुख्य अतिथि भी राम प्रसाद जीतीविधियों के विकास होतु खोलकुद परियालन भी किया जा रहा है।

गतिथिधियों इस बच्चे प्रोत्साहित होंने एव जावेगा। अदाणी पॉवर लिफिटेड, रायगढ़ के माध्यमिक विद्यालय के प्रधानाध्यापक श्री राम शिशा के स्तर में वृद्धि होने की बात कही। फाउंडेशन के विवेक पाण्डेव ,निलेश महाना सामाजिक साध्यपित के अनगंत पास के प्रसाद साव द्वारा तिलक लगावर स्वागत किया अदाणी घीका लिमिटेड,रायगढ़ के एचआर परमेक्षर गुता एवं उत्थान सहायक का सहयोग मानाभक का निर्णाण के साथ के ताफ का का प्रायं का साथ प्रायं का साथ का साथ का साथ का साथक होगा के सुवास के साथ क साथ-बहेरेक्टर अल्वाचेश्वन, साथनों के साथ के साथ के पूर्व का साथ का साथ का साथ का साथ का साथ होगा के साथ की रहा लेक्सोंग्रेक्टर सूच और कठनी के कुल अन्द्र प्राधनाध्याक की पदमतोचन पटेल, प्रायमिक अच्छे से पहाई करने और धाविष्य में अग

राषगढ़। तलीसगढ़ प्रदेश के सभी स्कूलो में सर्तमान हैक्षणिक सत्र के लिए पूरे तुलाई भारत में शाला प्रवेशोत्सक मनाया जा रहा है। इसी उपलक्य में शुक्रवार को जिले के पुसौर विकासखंड के शासकीय प्राथमिक शाला और पूर्व बाध्यनिक राखा, सूपा में शाला प्रवेशोत्सव कार्यफ्रम को शुरुआत की गई। जिसमें अदाणी फर्डहेरान द्वारा प्रोजेक्ट उत्थन के तहत काम 161 सरचों को कॉमी का जिल्ला किया गया। वहीं आचमी एक सफ़ह में रोप अन्य स्कूलों में 486 कच्चों की भी कॉनीयों का वितरण फिया

समवेत शिखर संवाददाव

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उनके अनुरोध को ध्यान में रखकर स्वास्थ्य सुविधाओं का विस्तार अमलीपाली के अतिरिक्त 2 और गाँवों तक किया जाना हैए जिसमें शंकरपाली और पुसलदा को शामिल किया गया है। अदाणी फाउंडेशन के मीएमआर प्रमुख ने बताया कि मोबाइल हेल्थकेयर द्वारा आसपास के वामों में विगत तीन वर्षों में घर पहुँचकर स्वास्थ्य सेवाएँ दी जा रही हैए जिससे आमजनों के साथ विशेष रूप से बुद्धजनोंए महिलाओं एवं बच्चों को लाभ मिल रहा है।



न्द्राव्यासव आदुत, वित्याधार वांभाग, वित्याधार (१८.न.) जोटिया ज्ञां प्रारण कर्मा (१४.४४.४४/२०२१-२२ इत्य कर्मा क्यांग केरेला कार्य (१९.१) पत्र ज्यांग २३४४.४२०२३



संविधाओं का लाभ मिल रहा है। इसके साथ हो, पुसलदा एवं शंकरपाली गाँवों में कमशः दिनांक 10 एवं 11 जुलाई को मोबाईल हेल्थकेवर यूनिट द्वारा दी जाने वाली सेवाओं का शुभारंभ किया जाना है। अदाणी फाउंडेशन ग्राम छोटे

कोतमारा में मोबाइल हेलथकेयर युनिट शुरू

दो गांवों में युनिट की शुरूआत 10 को

के अंतर्गत मोबाइल हेल्ध पॉवर



केयर यूनिट द्वारा अदाणी स्वास्थ्य लाभ प्रदान किया जा रहा है।

हेल्थकेयर यूनिट का • अदाणी विस्तार किया है। फाउंडेश-शकवार को आयोजित एक कार्यक्रम में ग्राम सरपंच पंच प्रवं ग्रामीणों की उपस्थिति में मोबाइल हेल्थ केयर यूनिट की सेवाओं का शुभारंभ लिमिटेड के आसपास के 15 गौवों में अमलीपाली गाँव में किया गया, लोगों को घर बैठे नियमित रूप से

जिससे लोगों को घर बैठे स्वास्थ्य

अदाणी समूह के कर्मचारियों ने प्लास्टिक प्रदूषण को हराने का लिया संकल्प

रायगढ़। जिले के पुसौर एवं आदिवासी बाहल्य क्षेत्र तमनार विकासखंड में अदाणी समुह की क्रमज्ञ: अदाणी पॉवर लिमिटेड एपीएल), छोटे भंडार तथा गारे पेल्मा - 3 ओपन कारट खदान के एमढीओ अदाणी इंटरप्राईजेस लिमिटेड - नेचुरल रिसोसेंज एईएल-एनआर) द्वारा प्रकृति के प्रति समर्पण भाव रखने और उसके संरक्षण के लिए पर्यावरण जागरूकता पखवाडा का आयोजन किया गया। संयुक्त राष्ट्र संघ द्वारा विश्व पर्यातरण दिवस पर जारी धौम 'पारिस्थितिको तंत्र के बहाली के लिए आयोजित किए गए। प्लास्टिक प्रदूषण को हराएँ मुहिम के अंतर्गत 29 मई से 5 जून के बीच विभिन्न जागरूकता कार्यक्रम जिनमें क्रिज प्रतियोगिता, जागरूकता रैली, पोस्टर प्रतियोगिता , पौधा रोपण, पर्यावरण संरक्षण हेतू रूपथ ग्रहण, नुकड़ नाटक इत्यादि



इसके बाद एपीएल के पास के ग्राम बहे प्रतियोगिता की शुरुआत में एपीएल के प्लांट भंडार, सुपा, कठली, सरिया तथा एडंएल-के ग्राम मिल्पारा, ढोलनारा, प्रमुख समीर कुमार मित्रा तथा एइंएल-एनआर एनआग के क्लस्टर प्रमुख मुकेश कुमार सहित अन्य अधिकारियों एवं कर्मचारियों रोदोपाली, डोलसरा, कुंत्रेमुरा गाँव के स्कूलों तथा आइंटीआई केंद्र में जागरूकता रैली ताला जन जानवात्रा पूर्व क्षेत्र को निकालकः क्रिज प्रतियोगित, योस्टर द्वारा पर्यावरण को सुरक्षा एवं क्षेत्र को निकालकः क्रिज प्रतियोगित, योस्टर प्लास्टिक सुरु बनाने को शपथ लों गईं। प्रतियोगिता, नुकड़ ताटक का आयोजन



क्षेत्र में इस वर्ष 2 लाख से अधिक पौधरोपण करने का लिया गया लक्ष्य

किया गया। जिसमें करीब 50 शिक्षकों और गया। कार्यक्रम को सफल बनाने में पर्यावरण 700 छात्रों ने भाग लिया। कार्यक्रम के विभाग के विभागाच्यक्ष एवं सीएसआर टीम आवीविका संवर्धन तथा अधीसंरचना अतिम दिन 5 जून 2023 को दोनों जगहों में अधिकारियों एवं जनप्रतिनिधियों द्वारा 4000 में अधिक पौधे रोपे गए जिसे वर्ष के अंत जिले के दोनों बनोंकों में अदाणी फाउंटेगन तंत्र के बहाली के लिए भी प्रयासरत है। तक करीब 2 लाख करने का लक्ष्य रखा के माध्यम में अपने सामाजिक सरीकारों के

का विशेष योगदान रहा। एपीएल एवं एईएल-एनआर द्वारा गयगढ्

तहत गुणवत्तायुक्त शिक्षा, THINK विकास के विभिन्न कार्यक्रम संचालित करता है। वहीं पर्यावरण सुरक्षा हेतु पारिस्थितिको

अराणी कार्रहेणन, आपर्रतीयल के

सितार तथा कोर्तन निपाद ने मुंहद पुश्वारोपल कार्यव्रम में भाग लेकर केर्जुनिय, मसानेनो, तोशप, नेम, रत्यादे के पीधे लगपुर। इसमें गांत 11 दिनों में कुल 12000 नृश्वी का रोपण उस्था घतला लिये। में किराग पता। क्रमी कुल पर दिन इसी के सारे पत्की कुए हर दिन इसी के सारे पत्की कुए हर दिन इसी सेने बढ़े भाइर, बरायलों पत्क ठोटे भोडरा इस्परि में आ साम पंजायती सेने बढ़े भाइर, बरायलों पत्क ठोटे भोडरा इस्परि में आ साम पंजायती सेने बढ़े भाइर, बरायलों पत्क ठोटे भोडरा इस्परि में आ साम पंजायती सेने बढ़े भाइर, बरायलों के डाप वार्जातीनक क्रमतों के डाप वार्जातीनक क्रमतों से प्राप्त के की कार्जातपार सामेजी के डाप संघला के सीच तामोजी के कार्जातपार तमेजी में अगम के दशावरी संघला के सीचे सामजी कार्जातमाल मुंक क्रमीलक्र को सिराम में एक उनकी 11-1-- 10 है। जबकि संयत्र में कार्यरत उनी गांव के कमीचों को रोपित पौधों तात के कार्यनों को गौरत पीओं को संस्थान करने तुख संकाणित जो संस्थान करने तुख संकाणित जो किया का का है। व्ययक स्टंस प्राय नन सार्योग से चलाई का व्यक्ति पर जोधना के प्राय कृष्णरोगम का कार्य ते। व्यक्त कार्य कृष्णरोगम का कार्य ते। व्यक्त हैं। तिकाम प्राय कार्य ते। वृष्ण हैं। तिकाम प्राय कार्य ते। कृष्णरोगम कार्य ते। कार्य ते प्राय के प्राय के प्राय के कार्य ते प्राय के कार्य के कार्य ते प्राय कि प्राय कार्य त्य प्राय कार्य ते प्राय कि कार्य का प्राय के प्राय कि कार्य का प्राय का स्वाय का स्वाय के प्राय कि कार्य का प्राय का स्वाय कार्य का प्राय कार्य के की सिंधल जु कार्य का व्यक्ता विदय, कार्याय का स्वाय कार्य का कार्य का प्राय का कार्य का कार्य का प्राय कार्य का कार्य का प्राय का कार्य का कार्य का प्राय कार्य का कार्य का कार्य का कार्य कार्य का प्राय कार्य का कार्य का प्राय कार्य कार्य का कार्य का प्राय कार्य का कार्य का कार्य का कार्य कार्य का कार्य कार्य का कार्य का कार्य कार्य का कार कार्य का कार्य का कार कार का कार कार कार कार कार कार का

अभियान बनते जा रहे जन आंदोलन

सार्वजनिक स्थलों पर लगा रहे पौधे

अदाणी पांचा लिमिटेड द्वारा जिले के पुस्तीर विषयामस्वाइ में विषय पर्याप्तरण दिवाम पा पर्यावरण प्रतिपात्र कि लिए पर एक्श को प्रत्निभूत करने वृष्टर वृष्ठारीपक स्रोतिर कई कर्मराउंडन्से को अगराज किंगा गया। जुलाई महीने में वर्णा करतु प्राप्तभा तीने ही अदारण का त्रस्थ को प्रान्त करने लिए कन्मपालियों के स्वीनीका किंत

जनभागीदारी को सुनितित्रधन किया जा रहा है। इसके तहन कंपनी के असमपास के प्रभावित सामों के प्रामोणी को आर्मीदन कर उनके रशम स्वदार च सुना अमलीपीना से गणेरुवर सिदार, अमरसिंग सिदार, सुरेष्ठ उग्रंथ, मोहन सिदार, सुनोल बाब ही जिल्ला कुछ ही कुछ 10 10 मीधों का रायण कराया जा रहा

नवभारत ब्यूरो । रायगढा

1.8 Appreciation letter from stakeholder(s): -

कार्यालय ग्राम पंचायत छोटेमण्डार, जनपद पंचायत पुसौर, जिला रायगढ़ (छ. ग.) सरपंच ग्राम पंचायत पुटकापुरी त्वास राज-जंगविश्व केल्ट-वलेलल श्रीमती शतरूपा चौहान वाना च ता. - पुस्ता वित्ता - राष्ट्राव (ह.न.) मो.ने - १२४४६ (ह.न.) तह. पुसौर, जिला रायगढ (छ.ग.) सारणंता ग्राम पंचायत - सोटेभण्डार 電雨.... दिनांक- ... हमांक विनांक. -:धन्यवाद पत्र:-धन्यवाद पत्र អូកែ HR, अदाणी फाउंडेशन अवाणी पावर लिमिटेड अदाणी फाउडेशन, ग्राम - छोटे भंडार, गो. - बड़े भडार, तहसील- मुसौर अवाणी पावर लिगिटेस. ज़िला - रापगढ (छ. ग.) विषय - प्राग आत्तीऔना में खेल मैटान (फुटबॉल) का निर्माण कार्य पूर्ण होने के संदर्भ ग्राम-छोटे संडार, पोस्ट-बड़े भडार , तहसील- पुसीर, जिला-रागगढ़ (छ.ग.) Ê! विषय :- ग्रान भुटकाधुरी में तालाब गहरीकरण का कार्य पूर्ण होने के संदर्भ में। महोद्राव जपरोक्त विश्वयान्तर्गत लेख है कि हमारे ग्राम पंचायत के ग्राम अमलीभौना मे गहोदय. सीएसआर मद से अधोसरेचना विकास कार्यक्रम के अंतर्गत ग्राम में खेलकूद को उपरोक्त विषयांकित लेख है कि हमारे ग्राम पंचायत पुरकापुरी में सी.एस.अद्य मद से अवोसरचना भोल्साहन देने हेतु छेल भेदान का निर्गाण किया गया है। कार्य की गुणवत्ता संतोषप्रद हे । इस खेल मैदान के बनने से ग्राम के युवा खिलाड़ियों एवं बच्चों को नियमित खेल निकास कार्यक्रम के अंतगर्तल प्राय में तालाब गठरीकरण का कार्य किया गया है। कार्य की गुण्यला अभ्यास हेतु सुविधा होनी और उनके खेल प्रतिभा में भी विकास संभव हो सकेगा। इसके शंतोषप्रद है। तालाब गहरीकरण कार्य के पूर्ण होने से समस्त ग्राम वासियों को दैनिक निस्तारी और सिंवाई साथ ही ग्राम स्तरीय खेत प्रतियोगिताओं के आयोजन में भी सहायक होगा। इस कार्य हेतु लाम जाना होगा। इस कार्य हेतु ग्राम पंचायाचत युटकापुरी एवं सगरत ग्रामवासी धन्यवाद झापित करते हत ग्राम अमलीभौना के समस्त युवा खिताड़ी एवं ग्रामवासी अदाणी फाउंडेशन को 官1 Marth

Chanhan ette e 07.00 and the last strapped.

धन्यवाद ज्ञापित करते है ।

Dule 18/10/2023

वी भौगरा महत ।

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कार्यालय गाम पंचायत - वर्ड्भाण्डार सर्पंष विकासखण्ड - पुमेर, किला - लवगड्र (इ.ग.) बांग्वर्ग ग्रिय्वा स्विम के न - १४७११०००। जिन न. - २४७११०

कमाक

-:धन्यवाद घत्र:-

प्रति , अदाणी फाउंडेशन अदाणी पॉनर लिफिरेड जाप – धोटे मंबर, पो. – नडे भंडाम, तल्ल्सील-पुसीर जिला – समगढ़ (छ. १.)

विषय – ग्राम पंचायत बई भंडार के शासकीय प्राथमिक शालाः में बाउन्द्रीश्वाल का निर्माण कार्य पूर्ण होने के संदर्भ में।

महोदय .

उपरोक्त विषयानगांत लेख है कि हमसे ग्राम पंचावत बड़े घंडार के अनुरोध पर सीरसआर सद से अधोसंचना विकास कार्यक्रम के अंतर्शन प्राम के शासकीय प्राथमिक शाला से वाऊ-द्वीवाल का निर्माण किया गया है। निर्माण कार्य की गुणवत्ता संतोषप्रद है। बाउन्द्वीवाल के बनने से शाला परिसर स्वच्छ एवं सुंदर होने के साथ ही छातों हेतु सुरक्षित हो गया है। इस कार्य हेतु प्राम पंचायत बढ़े गंडार एवं सवस्त प्रामवासी घन्यवाद आधित करते है।

प्रोठरमती

दिनाक

मावच राय पंशालन नहे भंदार

-:धन्यवार पत्र:-

বলি

अदाणी फाउंडेवान अदाणी पादर लिसिटेड अग्म - छोटे भंडार, पो - बड़ फडार, तड़सील- पुसौर बिल्ता - रायगद (छ. ग.)

विषय - ग्राम विरहाणांटा में सीमेंट फान्ड्रीट रोड (900 मीटर)का विमरंण कार्य पूर्ण होने के छंदर्भ में (

महोदय ।

उपरोक्त विषयानगंत लेख है कि हमारे ग्राम किरहाधांटा में सीएसआर मंद्र से अधोसरंचना विकास कार्यक्रम के अंतर्गत ग्राम किरहाभाँटा से प्राप्त सरवानी पहुँच मार्ग ये सीपेंट कान्क्रीट रोड (940) मीदर) का निर्माण किरग गंगा है। कार्य की गुणबत्ता संतोषप्रव है । सीप्रेंट फाब्क्रीट रोड रसी. सी. रोड) के करने से समस्त ग्रामीणों को आवागमन में सुविधा प्राप्त होगी । इस कार्य हेतू प्राप्त विरहाभाँटा के समस्त ग्रामवासी अदाणी फाउंडेशन को प्रत्यवाद ज्ञापित करते है ।

सर्पच क्रम पंजन्वत-प्रसंसवा र भगदः जात-रभग (जला-सन् हि (ब.म.)

विषयः शब्यवाद् जापन वावत् ।

असीहरू, विषयाल्तर्भत लेख है कि आसकीय सर्व स्कूल ब्रामा के मांग अम्हरीस अड्स पेय व्यवस्था हितु आर औ ज्यूरीयज्यर की मदी भी जिसे आमनी फाउछेकान द्वारा पदान दिया मया है इस वीजना अंतर्भत फाउछेकान द्वारा पदान दिया मया है इस वीजना अंतर्भत जाला परिवार के सभी छान्न छला भाषात्वित से रहा है। बाल परिवार के सभी छान्न छला भाषात्वित से रहा है। पताचार के आध्यम में आपको अमार व्यक्त करते हैं। एत्यवाढ़ आपित करते हैं। प्रधाय हिए माए वहर प्यूरीकार की मेरेलेका की आवश्यकरा पड़ने पर आखा प्रवस्थन रब्हे की मेन

राग्रह

PRINCIPA Govr. High School Bunga Block-Publions, Dist.-Raigara (C

1.9 Beneficiaries count: -

S. No.	Activity Description	Direct	Indirect	Access
Α.	Education			
1	Utthan Project	244	976	
2	Water purifier cum RO	250		
3	Constructed school boundary wall	45	180	
B.	Community Health			
1	Mobile Healthcare Unit	13813	5921	19734
2	Medical Camp	837	3348	
3	Water purifier cum RO/Patient waiting Chair	59	236	
4	Toilet Construction -01 Nos	59	236	
C.	Sustainable Livelihood Development			
1	Adani Mahila Movement for Advancement	134	536	
2	Kamdhenu- Dairy Development project	789	3156	
D.	Community Infrastructure Development/Climate Action			
1	Community Shed – Bade Bhandar			1198
2	Community Center – Sarwani			460
3	CC road – Sarwani to Birhabhata			1097
4	Football Playground – Amlibhouna			577
6	Pond Deepening work – Bunga			2660
7	Pond Deepening work – Ruchida			1655
8	Pond Deepening work – Putkapuri			1320
9	Vriksha Se Vikas	234		8837

2 Adani Foundation team

SL	Name	Position
1.	Purnendu Kumar	Head CSR – APL, Raigarh
2.	Vivek Pandey	Sr. Project Officer- AF
3.	Nilesh Kumar Mahana	Community Mobilizer -AF
4.	Somprabha Goswami	Community Mobilizer -AF
5.	Parmeshwar Gupta	Sr. AsstAPL, Raigarh





Site office address:

Adani Power Limited Village- Chhote Bhandar Post office- Bade Bhandar Tehsil – Pussore District- Raigarh State- Chhattisgarh, India Pin Code- 496100

Green Belt Development

Plantation on 36% land of 487 acre	195 acre	Species
Density of plantation	2500 plants/ Hectare	Casurina, peltaform,
Area required per plant	4.0 SQM	chitwan, akasia,
Total no. of plantation completed	310000 Nos.	Mahagoni, Mango,etc
2022-23	20026 Nos.	
2023-24	40500 Nos.	
Survival rate maintained	> 80%	

	Ash Generation and Utilization Details (October'2023 to March'2024)						
			Ash Utilization				
Month	Ash Generation (MT)	Cement Industries (MT)	Filling of low-lying area (MT)	Filling of Mine Void (MT)	Total Ash Utilization	% age Utilization	
October'2023	106851	0	38971	16702	55673	52.10	
November'2023	101408	0	120463	51627	172091	169.70	
December'2023	111301	0	79781	34192	113973	102.40	
January'2024	127680	0	67998	29142	97141	76.05	
February'2024	97673	0	75266	32257	107524	110.09	
March'2024	114841	0	149800	109500	259300	225.79	
Total	659757	0	532281	273420	805702	122.69	

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Power

Ref: APL/RAIGARH/ENV/CECB/23-24/40 Date: 09.09.2023

To The Member Secretary Chhattisgarh Environment Conservation Board Paryavas Bhavan. North Block, Sector- 19 Atal Nagar, Nawa Raipur, Raipur Chhattisgarh – 492002.

- Sub: Submission of Environmental Statement Report (Form-V) for Adani Power Limited Raigarh TPP 600 MW (1×600 MW)
- Ref: Point no. XVI of General Point. Environmental Clearance No: F. No. J 13012/57/2008-IA. II (T), dated: 20.05.2010 and its subsequent amendment vide letter dated: 16.04.2015 and extension dated 26.11.2019 & 17 & 30.07.2020 & 24.04.2023. MoEF & CC, New Delhi.

Dear Sir,

This has reference to the above subject and General Conditions of the Environment Clearance Letter above cited issued by MoEF & CC, New Delhi. We are hereby submitting Environment Statement Report (Form-V) for the period of April'2022 to March'2023.

Thanking You,

Yours' faithfully, Adani Power Limited, Raigarh TPP Digitally signed by Arindam Rout Date: 2023.09.09 16:58:03 +05'30'

Arindam Rout Head Environment

Encl: As cited above

CC - Regional Officer, Chhattisgarh Environment Conservation Board, TV Tower Road, Raigarh.

Adani Power Limited "Adani Corporate House" Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad-382421, Gujarat India CIN: L40100GJ1996PLC030533 Tel +91 79 2656 7555 Fax +91 79 2555 7177 info@adani.com www.adanipower.com



Registered Office: "Adani Corporate House", Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmed 🕮 🥸

Environmental Statement Report, 2022-2023



ENVIRONMENTAL STATEMENT REPORT FOR ADANI POWER LIMITED, RAIGARH TPP

Financial Year 2022-23



Submitted to:

Chhattisgarh Environment Conservation Board, Raipur, Chhattisgarh



Adani Power Limited, Raigarh TPP, Environment Department, Bade & Chhote Bhandar Village, Pussore Tehsil Raigarh District, Chhattisgarh

ENVIRONMENT STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending on 31st March, 2023 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	
1.		Mr. Samir Kumar Mitra
	owner/occupier of the industry	Station Head
	Operation or Under process.	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 Capacity – Units	1 x 600 MW (600 MW)
iv.	Year of establishment	March'2014
V.	Date of the last environmental statement submitted.	08 th September'2022

PART - B

i. Water and raw Material Consumption: -

i.	Water consumption in m ³ /day	m³/day
а	Process	150
b	Cooling	28000
С	Domestic	219
	Total	28,369

S.	Name of the	water consumption per unit of products		
No.	Products	During the previous financial year 2021-22	During the current financial year 2022-23	
1.	Electricity	2.347 M3/ MWh	2.43 m3/MWh	

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ii. Raw material consumption

Name of the Raw	Name of the	Process water consumption per unit of products		
materials	Products	During the previous financial year 2021-22	During the current financial year 2022-23	
Coal	Electricity	0.747 MT/MW	0.747 MT/MW	
LDO	Electricity	0.00034KL/MW	0.000184KL/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
а	Water	0.00	0.00	Plant designed is based on Zero Liquid Discharge
b	Air: PM	1.88	37.5	Within the standards of CECB/CPCB
	S02	48.83	989	Communicated with MoEF & CC regarding time of alignment with CEA phasing plan for achievement of new emission standards.
	NOx	17.38	358	Communicated with MoEF & CC regarding time of alignment with CEA phasing plan for achievement of new emission standards.

• Water- No discharge of wastewater.

Note- 100% effluent is treated and recycled back. Hence, there is no discharge of effluent in the environment.

PART - D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling Rules, 1989 and amendments)

S.		Total Quantity (MT)		
No.	Hazardous Wastes	During the previous financial year 2021-22	During the current financial year 2022-23	
а.	From Process			
	Used Oil	6.00 KL	34.13 KL	
b.	From Pollution Control Facilities	Nil	Nil	

PART - E

SOLID WASTES

S.		Total Quantity (MT)		
No.	Solid Wastes	During the previous	During the current	
10.		financial year 2021-22	financial year 2022-23	
а.	From Process (Ash)	1095000 MT	1246303 MT	
b.	From Pollution Control		Nil	
	Facility	Nil		
C.	Quantity recycled or			
	reutilized within the unit.	Nil	Nil	
	Sold	Nil	Nil	
	Disposal (In low lying			
	areas and backfilling of	410445 MT	1297979 MT	
	stone quarries)			

Remarks: 104% Ash Utilized on (FY 2022-23).

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 Ash generated has been utilized in nearby low-lying areas/ stone quarries as per Fly Ash notification and amendments. 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.
- 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/RSPCB issued, 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.

Last (FY 2022-23) Environmental Protection cost details are given below:

SI. No	Expenditure head	Actual Expenditure FY 2022-23 (In Lakh)
1	Environmental protection O&M	31.25
а	ESP	31.21
b	Stack	2.94
С	СНР	12.9
d	Silo annual Maintenances	26.4
2	Environmental Monitoring Cost	5.2
3	Legal & consent Fee	30.1
4	CSR	120.87
3	Environmental Lab Setup	27.0
4	Fly Ash Management	7.73
а	Brick plant operation Cost	44.1
b	Fly ash Transportation	2166.2
5	Greenbelt Development	90.9
9	Nursery Development	25.1
b	Tree Plantation	18.4
С	Social Forestry	23.8
6	Environmental Awareness Training	0.1
7	World Environment Day	0.4
8	Waste Management at Site	12.59
Total		2,677.32

PART - I

Any other Particulars for improving the quality of the environment.

- 1) Water sprinkling in dust prone areas in and around plant premises.
- 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.
- 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.
- 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.

-End-

Annexure VII

भारत सरकार परमाणु ऊर्जा विभाग विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड



Certificate Tracking ID / CTID : 2305262 Date of Issue / DOI : 23-Mar-2023 Certificate Serial No. / CSN : ULR-TC666523000003474P



Department of Atomic Energy

Board of Radiation & Isotope Technology

Government of India



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:

: 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

SAMPLE DESCRIPTION

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

<u>Note</u>: (i) The report pertains to the given sample only. (ii) The sample will be retained in this laboratory for a period of 1 month from certificate date and thereafter it will be disposed off. (iii) This report shall not be reproduced except in full, without written approval of the laboratory. (iv) The sampling is not done by this laboratory.

Checked by: SHEEBA S.W. Assistant Authorized Signatory: AJAY NANA THAMKE OIC, RAL

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