



JPL/ECC/Phase-I/FHY/2022-2023/Oct/41

October 29, 2022

To,

The Director,

Ministry of Environment, Forests & Climate Change

3rd Floor, Vayu Block,

Indira Paryavaran Bhawan, Jor Bagh Road,

Aliganj, New Delhi-110003

Sub.: Submission of Six Monthly Compliance Report - 1x600 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.-Seoni, Madhya Pradesh.

Ref.: EC Letter No.: J-13012/105/2008-IA-II (T) dated 17th February, 2010 & Corrigendum dated 22nd December, 2010.

Dear Sir,

Please find attached the **Six Monthly Compliance Report (April' 2022 to September' 2022)** in fulfilment of conditions stipulated in the Environment Clearance (letter issued by MoEF, New Delhi and referenced above) for 1x600 MW Coal based Thermal Power Plant at Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.- Seoni, Madhya Pradesh of M/s Jhabua Power Ltd. Soft copy is uploaded on MoEF & CC web site-Parivesh.

Kindly acknowledge.

Regards,

For Jhabua Power Ltd.

Authorized Signatory

Enc.: Six Monthly Compliance Report (April' 2022 to September' 2022)

Registered Office: Macmet House, 7th Floor, 10B, O C Ganguly Sarani, Kolkata- 700 020, West Bengal, India Site Office: Village- Barela, Post Office- Attaria, Tehsil- Ghansore, District- Seoni- 480997, Madhya Pradesh, India

M/s JHABUA POWER LTD.

COMPLIANCE REPORT

In respect of

ENVIRONMENTAL CLEARANCE

MoEF letter no. J-13012/105/2008-IA.II (T) dated 17th February, 2010

and

Corrigendum dated 22nd December, 2010 & 25 January 2012

COMPLIANCE PERIOD: APRIL 2022 to SEPTEMBER 2022

FOR

Jhabua Power Limited

1 x 600 MW THERMAL POWER PLANT

AT

VILLAGE:- BARELA & GORAKHPUR

TEHSIL: - GHANSORE

DISTRICT: - SEONI

MADHYA PRADESH

INDEX

Sr. No	TITLE	ANNEXURES
1	Six Monthly Compliance status of Environment Clearance (EC) (April 2022 to September 2022).	
	List of Annexures	
1.1	Recent Hydrogeological Study report of the area.	Annexure- 1
1.2	Stack Monitoring Report	Annexure- 2
1.3	Ash Pond effluent analysis report	Annexure- 3
1.4	Structural Adequacy report of Ash Dyke certified by IIT, Roorkee.	Annexure- 4
1.5	Treated sewage analysis report	Annexure- 5
1.6	Ground water analysis report	Annexure- 6
1.7	Surface water analysis report	Annexure- 7
1.8	Green Belt development report	Annexure- 8
1.9	COD letter	Annexure- 9
1.10	Photographs of medical center & sanitation	Annexure- 10
1.11	Ambient Noise level monitoring report	Annexure- 11

1.12	Ambient air quality monitoring report	Annexure- 12
1.13	Expenditure details under CSR	Annexure- 13
1.14	Details of Environment Management cell	Annexure- 14
1.15	Last Submission Receipt of six monthly compliance report of Environmental Clearance	Annexure- 15
1.16	Submission Receipt of Environmental Statement	Annexure- 16
1.17	Expenditure details on Environment Management	Annexure- 17

Compliance to conditions stipulated in Environmental Clearance

(Ref MoEF letter no. J-13012/105/2008-IA.II (T) dated 17th February, 2010 and Corrigendum dated 22nd December, 2010 & 25 January 2012)

SI No.	<u>Conditions</u>	<u>Compliance</u>
i	Environmental clearance is subject to submission from the Competent Authority in the state govt. that the project area does not fall within a notified tribal area.	As per corrigendum issued from MoEF dated 22nd December , 2010 this point has been deleted.
ii	No tribal land shall be acquired for the power plant.	As per corrigendum issued from MoEF dated 22nd December , 2010 this point has also been deleted.
iii	A special scheme (as part of CSR activity) for sustainable livelihood of poor tribal and marginalized population within the study area shall be formulated with inbuilt monitoring mechanism of time bound implementation. The status of implementation shall be submitted to the Regional Office of the Ministry and the Competent Authority in the state govt. half yearly.	For sustainable livelihood of the community especially poor tribal and marginalized population is formulated based on need assessment done. Scheme prepared. Inbuilt monitoring mechanism is prepared and placed. Regular review of CSR activities at field level, beneficiary interaction at management level is done.
iv	Environmental clearance is subject to submission to the Regional Office of the Ministry the details of projected affected families (PAF), land losers (homestead as well as ordinary land losers) and compensation paid / proposed per acre and time schedule	R & R plan has been submitted. There will be no rehabilitation of any family/person due to proposed project activity.

	I.a	
	for implementation of R&R scheme.	
V	Hydro-geological study of the area shall be 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, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.	Hydro-geological study of the area is being reviewed regularly. Recent hydrogeological report of the area reviewed is enclosed as Annexure -1 . The consistent trend of change in water level from pre monsoon to post monsoon of monitoring wells shows that there is no adverse impact in the ground water table in the project area and adjoining villages because of the project site. Conjunctive use of surface water and sub-surface water is benefiting the area by increase the stream flow duration and ground water level. Quality of ground water is also well within the permissible limits.
vi	A stack of 275 m height shall be provided with continuous online monitoring equipment for SOx, NOx and RSPM (PM _{2.5} & PM ₁₀). Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	275 m stack height has been constructed and continuous online stack monitoring system along with remote calibration system for the monitoring of emission is installed. The exit velocity of flue gas is maintained not less than 22m/sec. Mercury emission is also periodically monitored during the operation of power plant. Stack monitoring report is enclosed as Annexure -2.
Vii	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³.	High Efficiency Electrostatic Precipitators (ESPs) has already been installed and outlet of ESP is integrated with 275 m stack height to restrict the particulate emission below 50 mg/Nm ³ .

viii	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.	Effective and adequate dust suppression system like water sprinkling system, Cyclone Separator & Bag Filters have been installed in the dusty areas such as in coal handling and ash handling points, transfer areas. Coal conveyer system is permanently covered to restrict the dust release whereas transportation of fly ash from the AHP to the ash pond is through high concentration slurry disposal system.
ix	Utilization of 100% fly ash generated shall be made from 2 nd year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	for fly ash by Ministry of Environment & Forest. MoU's for 100% Fly ash utilization by various users like Ashtech India Pvt.
X	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. Mercury and other	and then given away to the users. Unutilized fly ash is disposed off through high concentration slurry

heavy metals (As, Hg, Cr, Pb etc.) will disposal system. be monitored in the bottom ash as also Mercury and other heavy metals (As, in the effluents emanating from the Hg, Cr, Pb etc.) is being monitored in existing ash pond. No ash shall be the bottom ash as well as effluent of disposed off in low lying area. ash pond by third party. We have engaged M/s Vardan Enviro Lab, Gurgaon registered with Ministry of Environment & Forest and accredited in accordance with standard ISO/IEC/17025:2017 by National Accreditation Board for Testing and calibration laboratories. The analysis report of ash pond effluent is enclosed as **Annexure -3.** Ash pond shall be lined with HDP/LDP Ash pond has been lined with 250µm liner χi lining or other suitable to prevent the leachate. Besides, any impermeable media such that no adequate safety measures are being leachate takes place at any point of continuously taken to avoid any breach of time. Adequate safety measures shall the dyke. IIT Roorkee examine the Ash also be implemented to protect the ash Dyke with respect to the structural dyke from getting breached. adequacy, Stability and Risk Assessment to establish that our Ash pond is made in accordance with standard design, sustainable and operating concepts with zero failures, and are suitable & healthy with no possibilities of breach. The Structural Adequacy report of Ash Dyke of Jhabua Power Limited, certified by IIT, Roorkee is enclosed as **Annexure -4.** We have installed a closed cycle cooling Closed cooling with χij cycle system

	natural draft cooling towers shall be	system with Induced Draft Cooling
	provided. The Effluents shall be	Towers. Permission of installing the IDCT
	treated as per the prescribed norms.	instead of NDCT has been approved by
	treated as per the prescribed norms.	,
		MoEF vide Corrigendum letter dated 17
		January 2012.
xiii	COC 5.0 will be adopted.	Continuous optimization of cycle of
		concentration is carried out and achieved
		the COC of 5.
xiv	The treated effluents conforming to the	Compliance continuously ensured.
	prescribed standards only shall be	Zero Discharge condition is being
	re-circulated and reused within the	maintained effectively. Separate storm
	plant. There shall be no discharge	water system is provided to avoid the
	outside the plant boundary except	mixing with effluent.
	during monsoon. Arrangements shall	
	be made that effluents and storm water	
	do not get mixed.	
XV	A sewage treatment plant shall be	Sewage treatment plant based on Fixed
	provided and the treated sewage shall	Film Aerobic Treatment System of
	be used for raising	adequate capacity has been installed for
	greenbelt/plantation.	the treatment of raw sewage. Treated
		sewage water is being used for greenbelt
		development/plantation. The treated
		sewage analysis report carried out by
		MoEF's recognized laboratory is enclosed
		as Annexure -5.
xvi	Rainwater harvesting should be	A rain water harvesting & recharging
	adopted. Central Groundwater	system, designed in consultation with
	Authority/ Board shall be consulted for	Central Groundwater Authority/ Board.
	finalization of appropriate rainwater	Authentication letter of Central
	harvesting technology within a period	Groundwater Board is already submitted
		with previous compliance report, is being

	of three months from the date of clearance and details shall be furnished.	implemented and followed.
xvii	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.	A well-qualified Safety management team is in place for the implementation of the safety measures. The details of the safety measures undertaken and implemented is given below; > JPL is certified under the ISO 45001:1018 for safety management system. > A safety committee is constituted and safety committee meeting is conducted regularly. > Mock drill is conducted regularly to improve the emergency handling if any. > Fire protection system like fire hydrant is installed in the fire porn area like BTG, T.G., CHP, AHP, BOP & Coal stock yard. Details of fire protection system are given as below; • Jockey pump -02 nos. • Electrical operated pump - 01 no. • Electrical booster pump - 01 nos. • Diesel booster pump - 01 nos. • Diesel booster pump -01 nos. • Electrical operated foam pouring system - 01 no.

system - 01 no. Multi fire tender (5000 ltr water + 1000 ltr foam) - 02 nos. Fire extinguisher – 395 DV - 89 Fire hydrant points with fire hose & box - 154 Manual Call Points. High Velocity Water Spray system in transformers and Boiler Firing Floor. Medium Velocity Water Spray system in conveyors galleries, Oil Storage Tanks, FOPH Pump House and cable galleries > Fire extinguishers are installed in the entire plant. Emergent gas flooding system in control room > Fire protection & detection system in CHP conveyors galleries, cable galleries and control room. Personnel protective equipment like helmet, safety shoe, safety belt etc. is the part of the measures taken for safety management. Apart from above many other safety measures has been taken as safety management system. Storage facilities for LDO has been xviii Storage facilities for auxiliary liquid fuel made in the plant area in consultation such as LDO and/ HFO/LSHS shall be with Department Explosives, 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.

- Nagpur after getting the NOC for the same. NOC of Department of Explosives, Nagpur is already submitted with previous compliance report.
- Disaster management plan has been prepared and in place to handle the any eventuality in case of an accident taking place due to storage of oil.

xix Regular monitoring of ground water (especially around ash pond and plant areas) shall be carried out 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.

Half-yearly around water Quality monitoring in core and buffer zone including around ash pond is being strictly followed for which we have engaged Ministry of Environment & **Forest** from registered laboratory apart accredited in accordance with standard ISO/IEC/17025:2017 National by Accreditation Board for Testing and calibration laboratories.

Six monthly reports are being submitted regularly to regional office of the ministry.

Ground water report of core and buffer zone is enclosed as **Annexure -6.**

Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the

The surface water samples are collected from the river/nalla regularly and records maintained effectively. Analysis report of surface water are enclosed as **Annexure-7.**

XX

xxiii	Noise levels emanating from turbines	The noise level in the work zone area
		other contract workers. COD letter is enclosed as Annexure -9 and Photographs of medical center & sanitation is enclosed as Annexure -10 .
xxii	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Power plant is commissioned and under commercial operation since 3 rd May 2016. Well-equipped Medical center with doctor and paramedical staff is in place to attend the person required First Aid round the clock, whereas urinals & toilets facilities are installed at various location in the plant for sanitation for the drivers and
xxi	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 70 %.	We are developing greenery in and around the plant and approximately 181000 trees have been planted. Local plant species have been preferred for the plantation having following characteristics • Fast growing with thick canopy cover • Adequate height with longer duration of foliage • Perennial and evergreen Details of green belt development and supporting photographs are enclosed as Annexure- 8.
	direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	

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/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.

is maintained below 75 dBA.

- Acoustic hood has been provided for the turbine.
- Earplugs /ear muffs being provided as personal protective equipment to the workers.

Noise level monitoring report is enclosed as **Annexure 11.**

xxiv

Regular monitoring of ground level concentration of SO2, NOx, RSPM (PM_{2.5} & PM10) and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found exceed to the prescribed limits, necessary control measures shall provided be of the immediately. The location monitoring stations and frequency of monitoring shall be decided in SPCB. consultation with Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.

- Regular monitoring of ground level concentration of SO₂, NO_x, RSPM (PM_{2.5} & PM₁₀) and Hg is being carried out in the impact zone and records are being maintained. Ambient Air Quality monitoring report is enclosed as Annexure- 12.
- The location of the monitoring stations has been decided in consultation with Regional Office of MPPCB, Jabalpur. Letter of Regional Office of MPPCB, Jabalpur regarding selection of monitoring stations has already been submitted with previous compliance report.
- Permanente Online Ambient Air Quality Monitoring Station has been installed and commissioned for the continuous monitoring of PM10,

		PM2.5, SOx, NOx & CO along with meteorological study like % Humidity, Rainfall, Wind Velocity, Wind Velocity, Solar Radiation, Atmospheric Pressure, Maximum & Minimum temperature and connectivity is established with MPPCB & CPCB. Besides Permanent AAQMS, Mobile Van for monitoring of PM10, PM2.5, SOx, NOx & CO has also been installed & commissioned.
xxv	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.	R & R plan has been already submitted.
xxvi	An amount of Rs 12.0 Crores shall be earmarked as one-time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 2.50 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.	Annexure -13.
xxvii	As part of CSR programme the company shall conduct need based assessment for the nearby villages to	Based on need assessment identified verticals for working on agro based livelihood including improved and

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 а 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 imparted individuals to take up self-employment and jobs.

- sustainable agricultural practices for higher yield and income generation.
- 2. The capacity building of the community is done from time to time. Demonstration plots of improved seed varieties, cultivation methods, tools and equipment on farmer's field is regular feature of the CSR activities.
- 3. Vegetable cultivation is becoming important income generation activity among the community due to its short gestation time. Input for same is also provided to the farmers
- 4. A part from above activities breed improvement in cattle through Artificial Insemination (AI) is done for enhancing milk yields and strengthening dairy development activities.
- 5. Under the income generation programme 84 fruit bearing orchards are developed on farmers land, additionally training and required input for the growth and development of the orchard is also provided to the farmers. Continuous and regular monitoring of orchards along with training of farmers is also done.
- Vocational training provided to the youth of adjoining villages, a special batch of (batch of youth from land

seller families) 37 students were trained from Govt. ITI. Successfully passed out students are absorbed in the company. 53 Self Help groups of women are formed

for nearby villages promoting savings and carry out income generation activities. For said purpose regular trainings The exposure visit are carried out. members are trained for commercial stitching and doing successful activity. They are getting order of for preparation of readymade garments suppliers. Apart from this vegetable selling, general store, grocessary shop, tent house business, goat rearing etc. are done by group members.

5xxviii Provision shall be made for the housing of construction labor 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.

All necessary facility for workers provided.

After completion of the project activities and start of O&M phase, part of the temporary structure are being used for O&M personnel and remaining has been removed.

XXIX

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

Not relevant now.

However, for records, we had published in three newspapers (Hindustan Times,

	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 .	
XXX	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.	Not relevant now. However, for records, copy of the clearance letter had been sent to Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO. Regarding this details have been submitted with half yearly compliance report, June 2011.
xxxi	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	A separate Environment Management Cell is in place headed by DGM. Environment. Details of Environment Management cell including personnel involved, their designation, qualification and hierarchy is enclosed as Annexure -14.
xxxii	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of	Status of compliance of the stipulated EC conditions, including results of monitored data is hosted on company web site.

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; RSPM, SO_2 , NO_x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.

The criteria pollutant levels namely; RSPM, SO_2 , NO_x (ambient levels as well as stack emissions) is displayed at the plant operation gate.

XXXIII

The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.

We are regularly submitting the six monthly compliance reports on the status of compliance of the stipulated EC conditions including results of monitored data to the respective Regional Office of MOEF, Bhopal, the respective Zonal Office of CPCB and the SPCB. The receipts of last compliance report submission is enclosed as **Annexure-15**.

xxxiv

The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry by

The environment Statement report for the year 2021 - 2022 was submitted to Madhya Pradesh State Pollution Control Board before 30th September 2022. Submission receipt is enclosed as **Annexure -16.**

	e-mail	
xxxv	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.	We are regularly submitting 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.
xxxvi	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	We comply and agreed to the same.

	including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	
xxxvii	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	We comply and agreed to the same. The item-wise expenditure break-up from April 2022 to September 2022 is enclosed as Annexure -17.
xxxviii	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.	No Longer relevant. However, the same has been complied with.
xxxix	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.	We ensure full cooperation to the Scientists / Officers from the Ministry / Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.

4	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.	Agreed for the same.
5	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.	Power plant is commissioned and operational.
6	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.
7	In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.	Agreed.
8	The above stipulations would be enforced among others under the Water (Prevention and Control of	Noted & same shall be complied with.

	Pollution) Act, 1974, the Air	
	(Prevention and Control of Pollution)	
	Act, 1981, the Environment	
	(Protection) Act, 1986 and rules there	
	under, Hazardous Wastes	
	(Management and Handling) Rules,	
	1989 and its amendments, the Public	
	Liability Insurance Act, 1991 and its	
	amendments.	
9		
9	Any appeal against this environmental	Agreed.
	clearance shall lie with the National	
	Environment Appellate Authority, if	
	preferred, within 30 days as prescribed	
	under Section 11 of the National	
	Environment Appellate Act, 1997.	



Annexure -1

Recent Hydrogeological Study Report

HYDROGEOLOGICAL REPORT

SUBMITTED TO

M/S JHABUA POWER LTD.

Situated at Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore Dist- Seoni, Madhya Pradesh



SUBMITTED BY

VIBRANT TECHNO LAB PVT. LTD.

Plot No SC-40, 3rd Floor, S Block, Narayan Vihar,

Jaipur, Rajasthan (302020)

Email-: vibranttecnolab@gmail.com

Contact No. 9929108691

HYDROGEOLOGICAL REPORT (SEPTEMBER 2022)



M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, Madhya Pradesh)

TABLE OF CONTENTS

BRIEF ABOUT THE EXISTING PROJECT GIVING LOCATION CHAPTER 1 DETAILS, COORDINATES,GOOGLE/TOPOSHEET MAPS, ETC. DEMARCATINGTHE PROJECT AREA.		1-5
1.1	1 BRIEF INTRODUCTION ABOUT COMPANY	
1.2	2 PURPOSE OF THE PROJECT	
1.3	LOCATION & ACCESSIBILITY DETAILS	3 5
1.4	SCOPE OF WORK	
1.5	METHODOLOGY	
CHAPTER 2	METEROLOGY-DRAINAGE ANDWATER REQUIRMENT	6-13
2.1	CLIMATE AND RAINFALL	6
2.2	GEOMORPHOLOGY, DRAINAGE AND SOIL	7
2.3	HYDROGEOLOGY OF THE STUDY AREA	8
2.3.1	WATER BEARING FORMATION	8
CHAPTER 3	GEOLOGYANDHYDROGEOLOGYOF THE STUDYAREA	14-30
3.1	REGIONAL GEOLOGY	14
3.2	HYDROGEOLOGY OF THE AREA	19
3.2.1	WATER BEARING FORMATION	19
3.3	3.3 SITE SPECIFIC HYDROGEOLOGY	
3.4	GROOUNDWATER RESOURCES	20
3.5	3.5 GROUNDWATER LEVEL MONITORING	
3.5.1 OBSERVATION AND INTERPRETATION OF GROUND LEVEL MONITORING		23
3.6	WATER LEVEL TREND ANALLYSIS & QUALITY ISSUES	28
3.6.1		
3.6.2	3.6.2 GROUND WATER TREND ANALYSIS (10 YEARS)	
3.6.3	3.6.3 HYDROGRAPH OF THE WATER LEVEL (10 YEARS)	
3.7	3.7 GROUNDWATER QUALITY ANALYSIS	
3.7.1	3.7.1 GROUND WATER QUALITY	
3.7.2	3.7.2 RESULT OF GROUNDWATER ANALYSIS	
3.7.3	3.7.3 CONCLUSION	
CHAPTER 4	SUMMARY&CONCLUSION	31-32







M/s Jhabua Power Ltd.
(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

LIST OF TABLES

TABLE NO.	TITLE	
2.1	RAINFALL DATA FOR LAST 10 YEARS AS PER IMD (inmm)	7
3.1	STRATIGRAPHY SEQUINCES OF THE STUDY AREA	
3.2	GROUNDWATER RESOURCES AND DEVELOPMENT POTENTIAL OF SEONI DISTRICT	20
3.3	DEPTH TO GROUND WATER LEVELOFINVENTORY WELLOF THE STUDY AREA	24

LIST OF FIGURES

FIGURE NO.	mmi p	DACENO
FIGURE NO.	TITLE	PAGE NO.
		-
1.1	SITE PLAN	2
1.2	LOCATION MAP OF THE PROJECT SITE	3
1.3	GOOGLE MAP OF THE STUDY AREA	4
2.1	RAINFALL PATTERN OF THE SEONI DISTRICT	7
2.2	GEOMORPHOLOGICAL MAP OF THE STUDT AREA	10
2.3	DRAINAGE MAP OF THE STUDY AREA	11
2.4	CONTOUR MAP OF THE STUDY AREA	12
2.5	ELEVATION MAP OF THE STUDY AREA	13
3.1	GEOLOGICAL MAP OF THE SEONI DISTRICT	16
3.2	GEOLOGICAL MAP OF THE STUDY AREA	17
3.3	LITHOLOGICAL MAP OF THE SEONI DISTRICT	18
3.4	HYDROGEOLOGICAL MAP OF THE SEONI DISTRICT	22
3.5	DEPTH TO WATER LEVEL OF STUDY AREA IN PRE-MONSOON	25
3.6	DEPTH TO WATER LEVEL OF STUDY AREA IN POST-MONSOON	26
3.7	GROUND WATER LEVEL FLUCTUATION MAP	27
3.8	PRE & POST MONSOON GROUNDWATER LEVEL	27
3.9	GRAPH SHOWING GROUND WATER LEVEL IN PRE AND POST	29
	MONSOON FOR STUDY PERIOD FROM SEPTEMBER 2021 TO	
	AUGUST 2022	
3.10	GRPOND WATER LEVEL FLUCTUATION IN LAST 10 YEARS	30
3.11	HYDROGRAPH WATER LEVEL FOR PRE AND POST MONSOON	31



M/s Jhabua Power Ltd.

Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, Madhya Pradesh)

CHAPTER-1

Brief about the proposed project giving location details, coordinates, google/toposheetmaps, etc. demarcating the project area.

1.1 BRIEF INTRODUCTION ABOUT COMPANY

M/s Jhabua Power Limited

Jhabua Power Limited (JPL) is a power generation company based at Seoni district in the State of Madhya Pradesh. The site is located near village Barela - Gorakhpur, Tehsil Ghansore of Seoni District. JPL currently has 600MW thermal capacity fully operational and 660MW under implementation. The plant is generating power on commercial basis. Jhabua Power Limited has at present a total tied up capacity of app

89%. This consists of: - (a) Long term tied up capacity to the tune of 71% with the states of Madhya Pradesh (35%) & Kerala (36%), and (b) Medium term PPA with PTC/Bengal (3 year starting from Mar'2019) to the tune of 18% has also been tied- up. The plant has full fuel linkage for tied up capacity with SECL & MCL (Subsidiaries of Coal India Limited). The nearest Railway station is Binaki, located in the Jabalpur Gondia section of Indian Railways and the nearest airport is at Jabalpur. The private siding of JPL is PJPB. JPL is committed towards the environment and the welfare of the community. JPL has implemented several programs in the field of infrastructure development, health, education and livelihood for the community around its area of operation.

The total project area of the project is 1861042 Sq. Meter. The Seoni Block has been categorized as "Safe" as per CGWA portal.

JHABUA POWER

HydrogeologicalReport

M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

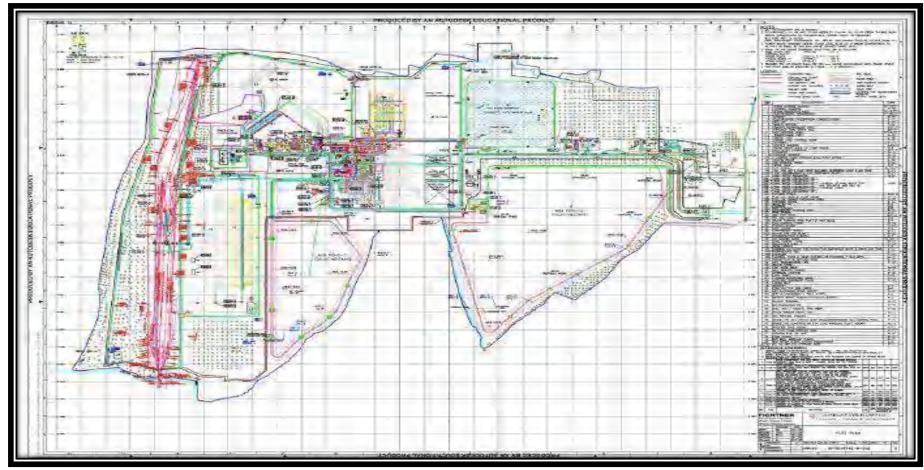


Figure 1.1: Site Plan-M/s Jhabua Power Ltd.



M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

1.2 PURPOSE OF THE PROJECT

M/s Jhabua Power Limited has retained M/s Vibrant Techno Lab Pvt. Ltd to evaluate comprehensive hydro-geological & groundwater resources evaluation studies in their project premises and around the vicinity of 5 km radius buffer zone of their project located at Seoni, Madhya Pradesh.

1.3 LOCATION AND ACCESSIBILITY

The Jhabua Power Limited- 600 MW is located at Village Barela, Gorakhpur, in Ghansore Tehsil- Seoni, Madhya Pradesh and the coordinates of the project site is **22.73788N & 79.91085E**. The location map of the study area is given in *fig 1.2*

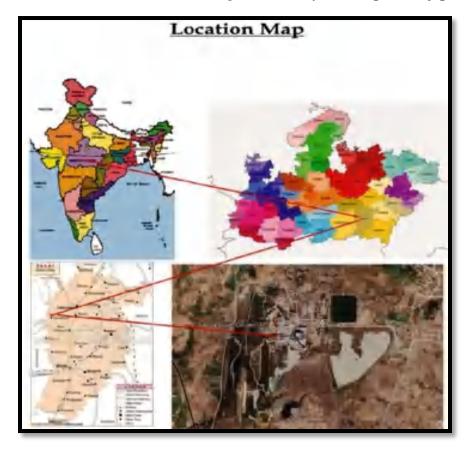


Figure 1.2: Location Map of the Project Site



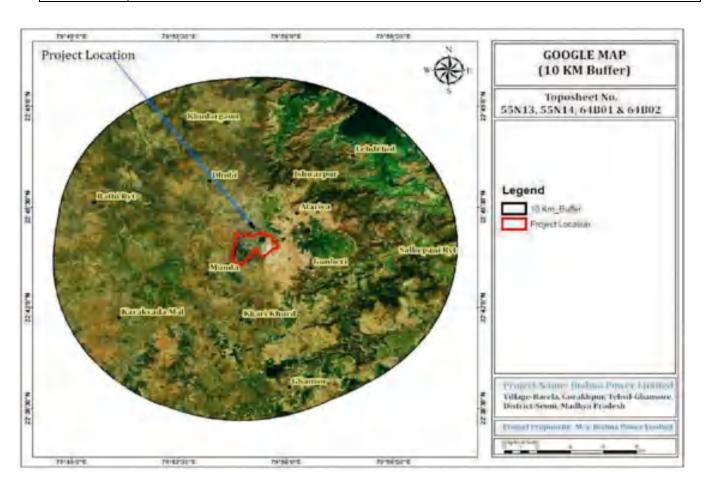


Fig1.3:Google map of Jhabua district 10km Buffer



M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

1.4 SCOPE OF WORK

The scope of work includes the following:

- ➤ To analyse physiographic conditions of the study area with the help of field observations, GPS readings, Survey of India (SOI) Toposheet and Satellite images.
- > To observe hydrogeological conditions and study of aquifer system of the area i.e. in Core and 5 km Buffer Zone.
- > To work out quantitative as well as qualitative variations in groundwater with respect to aerial extent and to find out water balance.
- > To suggest ways and means of creating artificial recharge to negate adverse impact on groundwater regime and their impact on groundwater regime of the area.
- > To prepare detailed Hydro-geological report and rainwater harvesting plan.

1.5 METHODOLOGY

Following methodology has been adopted to conduct hydro-geological investigation in the area:

- > Physiographic studies of the industry and its surroundings with the help of latest Google images, site visit, GPS survey etc. which helps in determining physiographic gradient.
- Secondary data collection i.e., climate and rainfall, soil and topography, geology, drainage etc. for interpretation.
- ➤ Detailed hydro-geological survey in study area including geology, types of aquifers and their hydraulic parameters governing the groundwater regime of the area, depth to water level, groundwater quality, water abstraction structures and their discharge, surface water bodies, drainage pattern, major irrigation sources and their potential etc.
- > Interpretation of the ground water level data of the study area.



M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

CHAPTER-2

Meteorology-DrainageandGeomorphology

2.1 CLIMATE AND RAINFALL

The Climate of the study area characterized by a hot summer and general dryness except during the southwest monsoon season. The year may divide into four seasons. The cold season, December to February is followed by the hot season from March to about the middle of June. The period from the middle of June to August is the southwest monsoon. October and November form the post monsoon or transition period. The normal annual rainfall of Study area is 1323.7 mm. The maximum rainfall received during southwest monsoon period i.e., June to August. About 86.3% of the annual rainfall received during monsoon season. Only 13.7% of the annual rainfall takes place between October to May period. Thus, surplus water for ground water recharge is available only during the southwest monsoon period.

The normal maximum temperature received during the month of May is 40.3° C and minimum during the month of December is 11.3° C. The normal annual means maximum and minimum temperatures of study area are 31.3° C & 18.9° C respectively. During the southwest monsoon season the relative humidity generally exceeds 88% (August month). In the rest of the year, it is drier. The driest part of the year is the summer season, when relative humidity is less 34%. May is the driest month of the year. The wind velocity is higher during the pre-monsoon period as compared to post monsoon period. The maximum wind velocity 7.7 km/hr. observed during the month of June and minimum 3.9 km/hr during the month of December.

The average annual rainfall of the district is 1145.13 mm, and is unevenly distributed over the area. The highest rainfall recorded is 1748.34mm in the year 2013 and the lowest rainfall is recorded is 504.55 mm in the year 2007.

HydrogeologicalReport JHABUA POWER

M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

Table 2.1: Rainfall data in mm for last 10 years as per IMD are given below:

YEAR	RAINFALL	YEAR	RAINFALL
2002	1141.07	2012	1069.78
2003	1482.93	2013	1748.34
2004	887.47	2014	985.03
2005	1256.81	2015	1041.18
2006	1158.12	2016	1127.14
2007	504.55	2017	853.72
2008	1032.31	2018	928.44
2009	1125.41	2019	1527.28
2010	1345.54	2020	1299.15
2011	1302.28	2021	1431.22

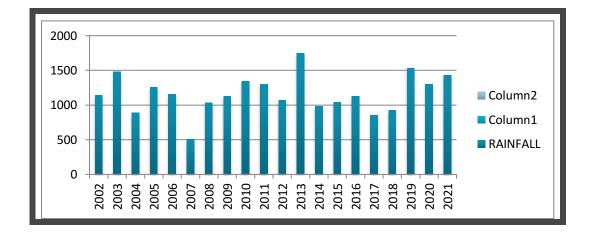


Figure 2.1: Rainfall Pattern of Seoni District (in mm)

2.2 GEOMORPHOLOGY, DRAINAGE AND SOIL

The area has undulating topography comprising hills of Satpura plateau from South to North. While the North Eastern part covered by Deccan plateau and falls at the altitude in between 325 to 740 m above MSL. The general trend of hills in the district is North-south with some isolated hillocks. Physiographically the area is divided into five parts.

- 1. Lakhnadon Plateau.
- 2. Upper Wainganga Valley.
- 3. Lower Wainganga Valley.
- 4. Sagar and Hirri River Valley
- 5. Southern Lower Land.



M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

The area is undulating plane, hilly and forested. The area North of Barghat is plane and Rice producing belt has covered by Bori Canal system. The Keolari block has plateau like appearance and covered by good network of canals under Sanjay Sarovar Pariyojna. The Wainganga is the main river flowing in the area having perennial flow. The other rivers are Thawari, Hiui, Sagar, Thal and Shadu and Pench. The black cotton soil, sandy loam, loams soil and moland soils are main soils in the area.

2.3 Hydrogeology of the study area

The occurrence and movement of ground water in hard rock areas is widely controlled by the secondary porosity present in them like joints, fractures, weathering and linearity etc. The Seoni district is mainly occupied by Archean rocks and Basaltic lava flows. The weathering of Archean rocks ranges from 0.50 mbgl to 10.00 mbgl. The weaker zones in Deccan traps are also developed at the contacts of two consecutive lava flows, which facilitate downward movement of ground water. In Vesicular basalts the voids provide more space for the accumulation of ground water. The Laterite is porous enough in nature and absorbs rain water very fast and loses it also. The water bearing properties of these formations varied widely depending upon their lithological properties and structural control.

2.3.1 Water Bearing Formations

The Ground Water occurs under water table and semi confined to confined conditions in all formations of the area. Topographic depressions, nature and extent of weathering, presence of joints and fractures play an important role in the occurrence and movement of ground water. The area occupied by Archean rocks is mostly undulating. The ground water in these rocks occurs under unconfined conditions, which is widely controlled by the weathering of the rocks, presence of joints, fracture and lineament in them.

The area occupied by Deccan trappean rocks, where ground water occurs under phreatic conditions in the weaker zones of weathered, vesicular, fractured and jointed parts of the flows.

The sheet joints, basal parts of flows and inter-connection of joints and fractures controls the horizontal as well as vertical movement of ground water. The plateau like topography plays an important role in occurrence and movement of ground water. Under semi-confined conditions the ground water occurs at the contacts of two flows and at the contact of trappean rocks with Archean basement. The Laterites are highly porous in nature and allows fast movement of ground water as well.



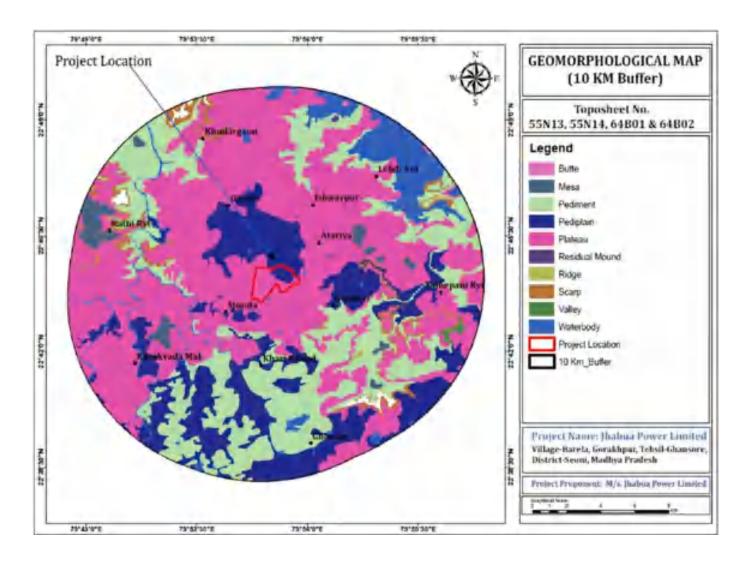


Figure 2.2: Geomorphology map of the Project Site 10km Buffer



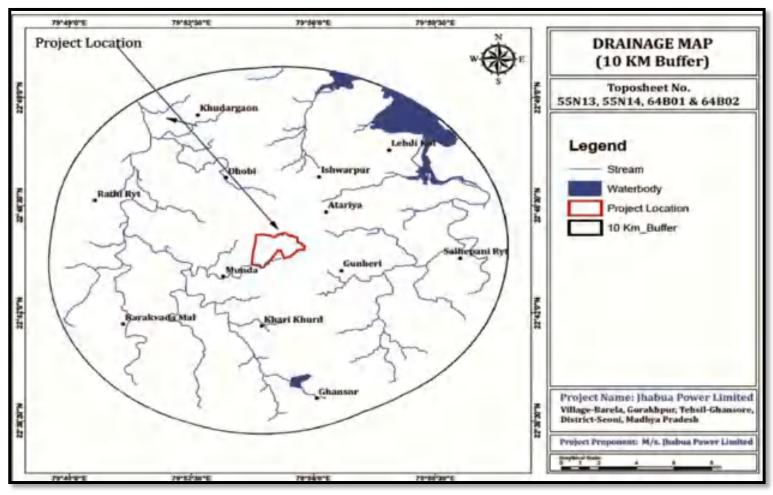


Figure 2.3: Drainage map of the Project Site 10km Buffer



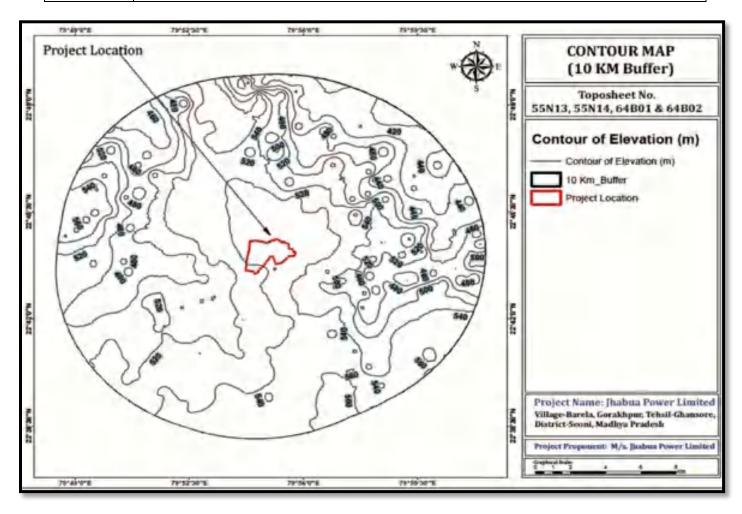


Figure 2.4: Contour Map of the the study area 10 km Buffer

JHABUA POWER

HydrogeologicalReport

M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

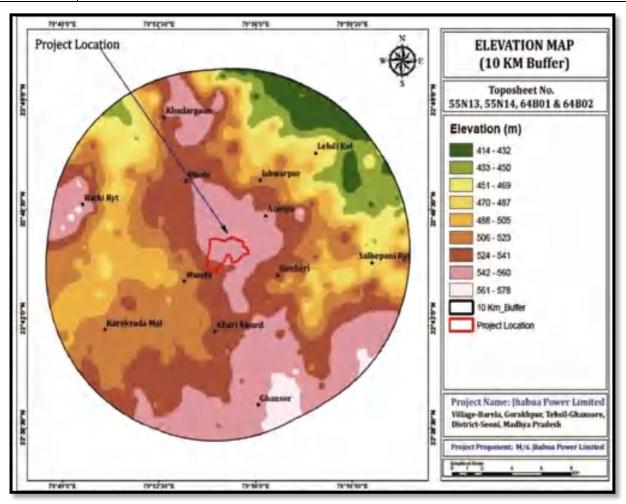


Fig 2.5: Elevation Map of the study area 10km Buffer



M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

CHAPTER-3

GeologyandHydrogeologyofthe Studyarea

3.1 REGIONAL GEOLOGY

Seoni is a part of ENE-WSE trending Central Indian Tectonic Zone (CITZ) limited by Sone-Narmada South Fault (SNSF) in the north and Central India Suture (CIS) in the north and Central India Suture (CIS) in the south, while Tan Shear Zone (TSZ) is located midway between the two. Geologically, the district comprises of Tirodi Biotite Gneiss (TBG) and Supracrustal Sausar Group (SSG) in the south eastern parts while major parts are covered with Deccan Traps with few outcrops of lameta, intertrappean beds, laterite cappings and alluvium ranging in age from Meso-Proterozoic to Recent. TBG forms the base mand of the Sausar Supracrustal and comprises grey stromatic and/or streaky gneisses with enclaves of high grade metamorphites, pink gneiss with migmatites and amphibolite. SSG is represented by Lohangi Fm, Mansar Fm, Chorbaoli Fm, Bichua Fm. Lithologically, cratonic assemblage consists of metamorphosed quartzite, pelites and carbonate and intrusive syntectonic strongly foliated granite and post-tectonic massive granite. The basement-cover contact was largely obliterated due to intense shearing and /or migmatitic foliation of TBG. Late cretaceous (Maestrichtian) strata include the Lameta Group occurring as thin bands and discontinuous patches in the south-eastern parts of the area. These are represented by cherts, cherty modular limestone, variegated clay and shale, deposited in a lacustrine environment, Along the eastern margin, the Deccan Traps overlie the Lameta sediments and along the southern margin, they are found above gneisses. The cumulative lava pile (430 m) comprises twenty-four number of flows which are classified under Amarkantak group. Based on the variation in lithological, textural and physical characteristics, the group is divided into formations such as Mandla, Dhuma, Pipardahi, Linga, Multai, Amarwara and Khamla formations. The thickness of individual flow varies from 5 m to 30 m. The basalt flows are traversed by basic dykes and are separated by wide spread

JHABUA POWER

HydrogeologicalReport

M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

persistent/impersistent fossiliferous to non-fossiliferous intertrappean. Extensive laterite cappings of varied thickness between 10 to 40 m on flow tops are exposed over an area of 100 sq.km. around Batwri, Amarpur and Chhiriya. The laterite of Kareligarh hill is a capping over biotite gneiss and extends in a NNE-SSW direction of about 3 km length and the width is around 300 m. The average thickness of laterite capping in this locality is about 70 m.

Table 3.1:Stratigraphic Sequence of the Study Area

Lithelegy	Stragg again:	Crosp	Apr	Nature and characteristics
Aloyes			QUARGUAY	Self-and secreptional registery
Latesta				Michiga to Barill Inglis and he yellowed from a prologanese, consentational production
Back Dyses			Cesses	Each gree this in mation grained had.
Free hotalist lave Servi, steplis and responsed uthorious Servi, with stepperring few user	Electric Phys		-	Data prey flow to medium, have, common manure and personnels of mediumnit people pro-
Fire to seven cample and compound pelicolog flowerstic magnifyredien or have	Asserted Fe	(Decree	Paleseptie	Dark grey, the great land compact mesors one-perfection in perfection
Two bushes flows surple to compensal primeters type	Mini Fe			Tell gry, median graced land compact mesons, mays peopletted in serious
Fing Sending Been sample is compared true	Large Pitt			Disk pay line is medium proped tiers, compart may not made part of flights purphysits.
The could be also does	Pipethi Fas			Date gwy, fine graned half , respect minister, man prophystal, st. speciel profession.
Right South to Deep Lingle and Supposed published flow; with property flow unit;	Dine Fe		Creament to Printegens	Data gray, then to medical phoned facts interpret marries, perphysics or before
Four teacher Deer, coming to compound publishes form WEL magnetive time one	Manufin			Dark prov. for or uneform germed hard, compact manages and moderately to open-an people-man.
Simple and compound female; flows	Undmiddel	Austria		Data grey line grained hard , compact mesoive and surphishelp.
Cheri thery licenses end.	Inexappea.	(Decom		
There above undated inserver- yetsprint day and slate	Lossin group		Manufactures	Med. Committed and Burble retire
Termina	Drenine		This Mess Profession	Her rangers manus products such
Political grants	Service.			Bitril, Compact Patient I reck
Circulate liatetoire	Barnen Fin			Black and compact make
Manager Corne Adional	Distress Fe			Self-and Salay mode, band and compact reside.
direction and direction	Carried Age			MART THE TANT INCOM
Management and a saling	Month Par	Aroun	Marr	Cold man their squares
Car commercial	Lettings For	Basic	Streeting.	Sheet and Bake reader
only symmetry makes of high peaks with medical of high peaks to measurement puts promote the	granu.			man, and images? System and county order-hard and compact brained, followed systems and respect to the followed beauty order thank and compact. But greening pays, this are to measure by followed to the county of the county



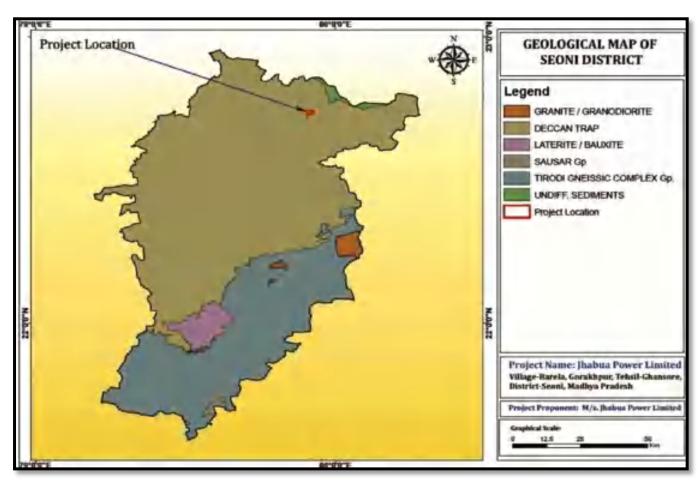


Fig 3.1: Geological map of Seoni district



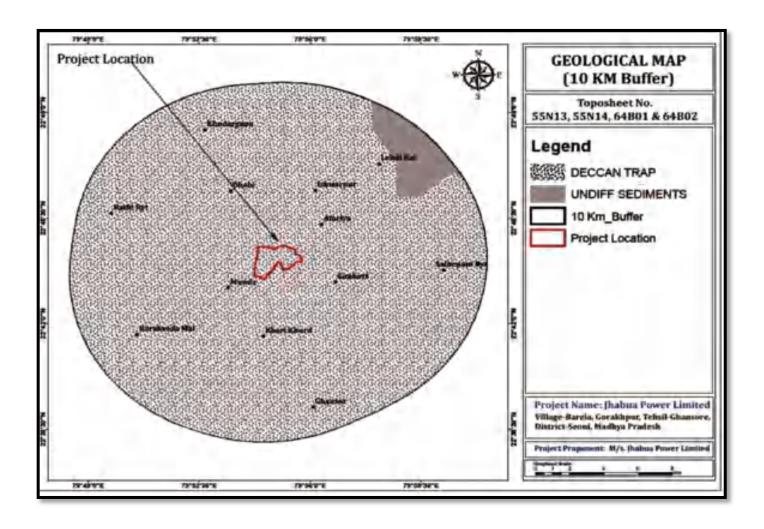


Figure 3.2: Geological Map of the Study Area



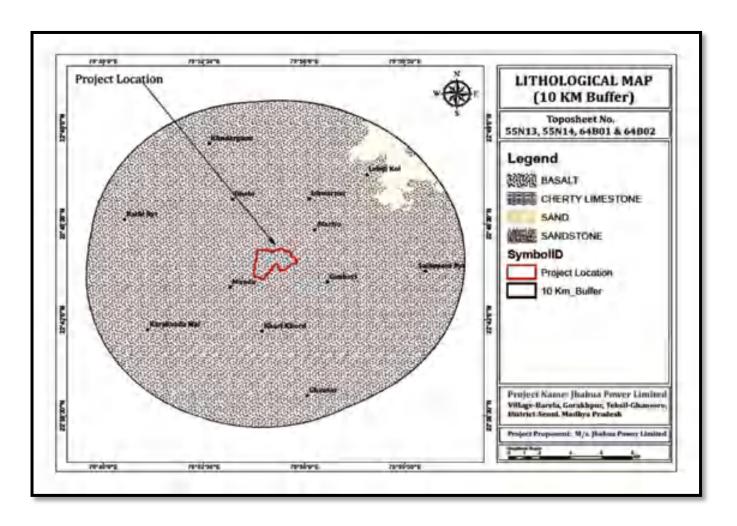


Figure 3.3: Lithological Map 5 Km Buffer 10km Buffer



M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

3.2 HYDROGEOLOGY OF THE AREA

The occurrence and movement of ground water in hard rock areas is widely controlled by the secondary priority present in them like joints, fractures, weathering and linearity etc. The district is mainly occupied by Archean rocks and Basaltic lava flows. The weathering of Archean rocks ranges from 0.50 mbgl to 10.00 mbgl. The weaker zones in Deccan traps are also developed at the contacts of two consecutive lava flows, which facilitate downward movement of ground water. In Vesicular basalts the voids provide more space for the accumulation of ground water. The Laterite is porous enough in nature and absorbs rain water very fast and looses it also. The water bearing properties of these formations varied widely depending upon their lithological properties and structural control.

3.2.1 Water Bearing Formations

The Ground Water occurs under water table and semi confined to confined conditions in all formations of the area. Topographic depressions, nature and extent of weathering, presence of joints and fractures play an important role in the occurrence and movement of ground water.

The area occupied by Archean rocks is mostly undulating. The ground water in these rocks occurs under unconfined conditions, which is widely controlled by the weathering of the rocks, presence of joints, fracture and lineament in them. The area occupied by Deccan trappean rocks, where ground water occurs under phreatic conditions in the weaker zones of weathered, vesicular, fractured and jointed parts of the flows. The sheet joints, basal parts of flows and inter-connection of joints and fractures controls the horizontal as well as vertical movement of ground water. The plateau like topography plays an important role in occurrence and movement of ground water. Under semi-confined conditions the ground water occurs at the contacts of two flows and at the contact of trappean rocks with Archean basement. The Laterites are highly porous in nature and allows fast movement of ground water as well.



M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

3.3 SITE SPECIFIC HYDROGEOLOGY

The Ground Water occurs in shallow aquifers under unconfined to semi-confined conditions in Deccan trap areas whereas in granitic and Archean formations it is restricted to unconfined conditions. The Ground Water in deeper levels occurs under semi-confined to confined conditions. The discharge of tube wells varies from 0.5 lps to

12 lps. The extent of aquifer restricted to their regional extends. The recharge of the deeper aquifer takes place through deep joints, fractures and contact zones, whereas the shallow aquifer recharges through weathered portion of the formation. The wells yielding in range from 3 m^3 /day to $182 m^3$ /day.

3.4 GROUNDWATER RESOURCES

Seoni district is underlain by Deccan trap basalts and Archaean granite-gneisses. Dynamic ground water resources of the district have been estimated. There are eight assessment units (block) in the district which fall under non command (95%) and command (5 % Barghat, Dhanora, Keolari and Seoni) sub units. All the blocks of the district are categorized as safe blocks. Seoni is with highest stage of ground water development is computed as 46%. The net ground water availability in the district is

79239 ham and ground water draft for all uses is 20,456 ham, making stage of ground water development 26 % as a whole for district. After making allocation for future domestic and industrial supply for next 25 years, balance available ground water for future irrigation would be 57784 ham at 50% stage of ground water development's safe limits in the district.



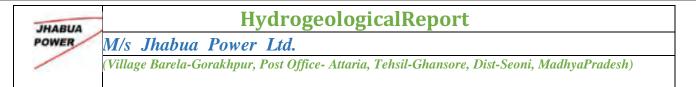
M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

Table 3.2: Ground Water Resource and Development Potential of Seoni District, M.P.

AssessmentU nit/Block	Sub- unitCommand/ Non-Command	NetGround WaterAvail ability (Ham)	Existing GrossGr oundWa terDraft	NetGrou ndWater Availabilityfo r FutureIrrigat ionDevelopm ent	StageOf Ground Water Developme nt (%)	Category ofBlock
GEONI	Command	1636	324	1280	20	Safe
SEONI	Non-Command	12389	6023	6181	49	Safe
	Total-Block	14025	6348	7461	45	Safe

As per the Dynamic Ground Water Resources of India, 2017 the study area falls under SAFE category.



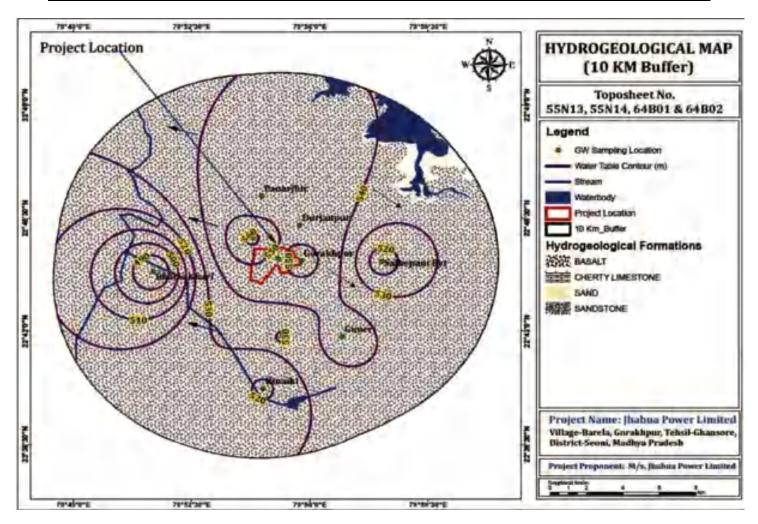


Figure 3.4: Hydrogeological Map of the Study Area

HydrogeologicalReport JHABUA POWER M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

3.5 **GROUNDWATER LEVEL MONITORING**

Ground water occurs within sand formation gravels. Groundwater is one of the Earth's widely distributed and most important natural resource. The largest source of fresh water in the world lies underground. At the same time, development of groundwater is very old. Increased demand of groundwater for various purposes has stipulated development of groundwater resources. Aquifers are formed as alluvium which constitute good aquifers form locales for storage of ground water.

3.5.1 Observation and Interpretation of Ground water level Monitoring

A detailed groundwater level monitoring has been carried during pre and post monsoon season at about 8 different places within buffer zone from existing dug wells and bore wells. Ground water monitoring locations along with their hydro geological details is given in *Table: 3.3* Pre monsoon depth to water level - On the basis of the depth to water level of the pre monsoon depth to water level was monitored between 1.5 to 7.5 mbgl.

Post monsoon depth to water level- On the basis of the depth to water level of the post monsoon depth to water level ranges between 1.5 to 7.4 mbgl.

Based on the field investigation, contour map for depth to water level (mbgl) of pre and post monsoon of the study area is represented in *Figure 3.5 & 3.6*.



M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

Table: 3.3: Depth to Ground Water Level of inventory well of the Study Area

Location	LAT_DEG	LONG_DEG	Pre- Monsoonal Ground WaterLevel (mbgl)	Post- Monsoonal Ground WaterLevel (mbgl)	Fluctuation
Proiect Operatioxr Gate	22.73744	79.91783	3.52	2.98	0.54
Ghansora	22.6542	79.952	4.30	3.10	1.2
Panarjhir	22.76984	79.90949	3.90	3.21	0.69
Binaiki	22.67042	79.91016	5.19	3.4	1.79
Durjanpur	22.75478	79.92813	4.12	3.54	0.58
Guneri	22.69733	79.94919	4.05	3.92	0.13
Dola	22.69744	79.919	3.25	2.47	0.78
Gorakhpur	22.73636	79.92905	1.48	1.03	0.45
Ghansori	22.6542	79.9525	3.32	3.05	0.27
Mehta	22.6306	79.8661	8.56	7.95	0.61



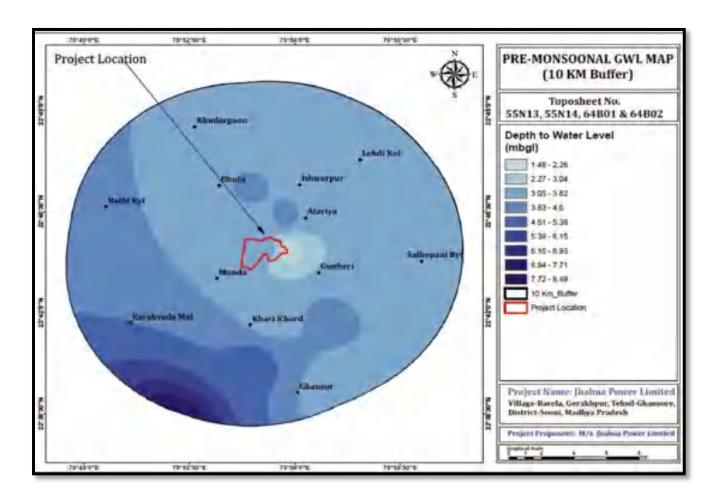


Figure 3.5: Depth to Pre- Monsoon Water Level Pattern of the study area (mbgl)



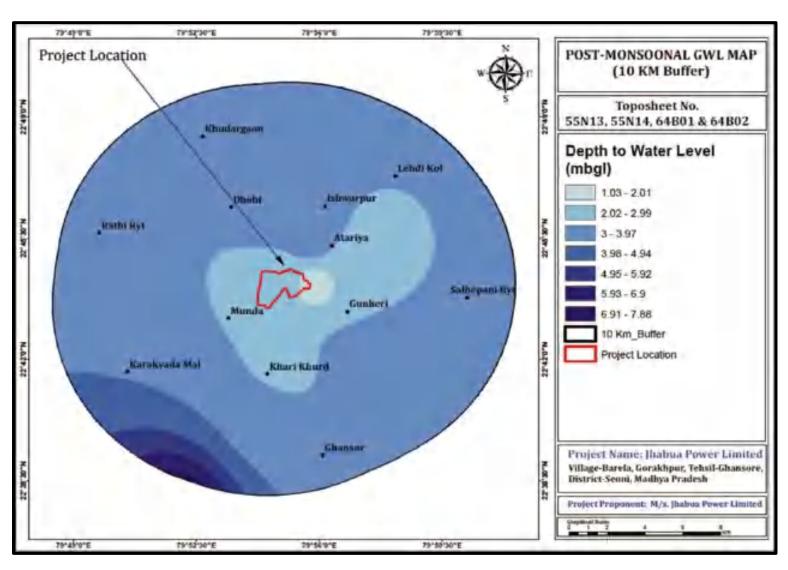


Figure 3.6: Depth to Post- Monsoon Water Level Pattern of the study area (mbgl)



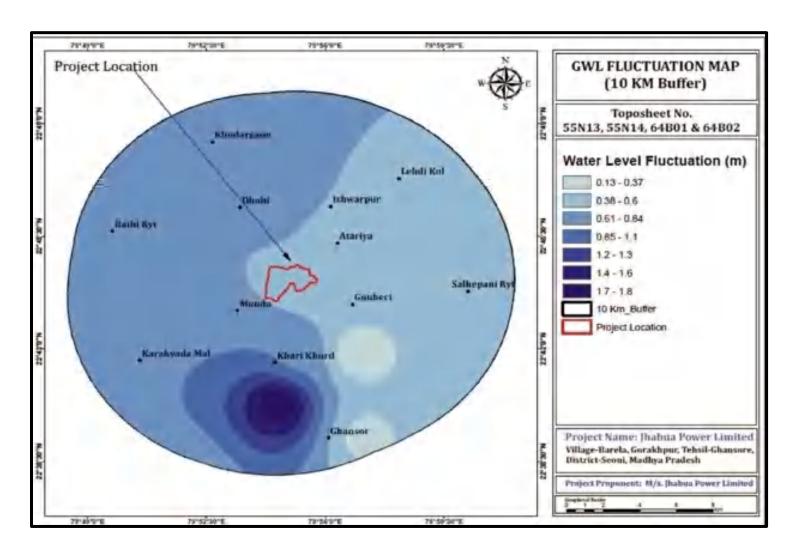


Figure 3.7: Ground Water Level Fluctuation Map



3.6 WATER LEVEL TREND ANALYSIS & QUALITY ISSUES

3.6.1 Depth to water level pre and post monsoon (10 years)

On the basis of the depth to water level of the study area, the pre monsoon depth to water level ranges between 4.09 mbgl to 7.76 mbgl and post-monsoonal water level ranges between 2.71 mbgl to 4.84 mbgl. Pre and Post monsoon depth to water level graph is prepared and enclosed below:

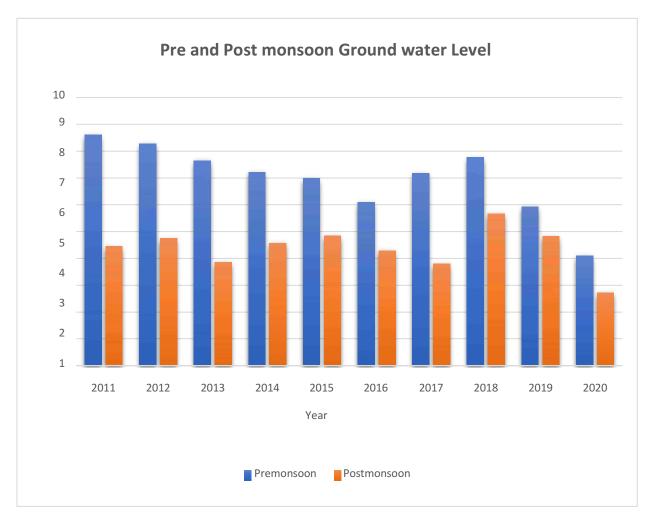


Figure 3.8: Graph showing trend in water level in last 10 years in Pre and Post Monsoon



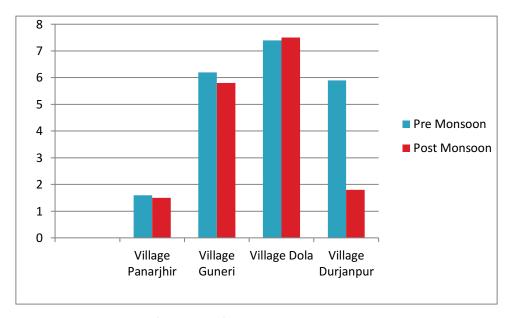
Depth to water level pre and post monsoon for study period from

September 2021-August 2022

On the basis of the depth to water level of the study area, the pre monsoon depth towater level ranges between 1.6mbgl to 7.6 mbgl and post-monsoonal water levelranges between 1.5mbgl to 7.5mbgl. This is the ground water level of the nearby villages near the project site.

Pre and Post monsoon depth to water level graph is prepared and enclosed below:

Figure 3.9: Graph showing Ground water level in pre and post monsoon for study period from September 2021-August 2022



3.6.2 GROUND WATER TREND ANALYSIS (10 YEARS)

The ground water levels observed over a period provides valuable information on the behaviour of the ground water regime, which is constantly subjected to changes due to recharge and discharge phenomenon. When the recharge exceeds discharge, there will be a rise in the ground water storage and vice versa. The decline in water level may be due to increase in draft (for different purposes) or decrease in precipitation (less recharge to ground water). On the other hand, a rise in water level may be due to an increase in rainfall and/or due to changes in irrigation practices.



3.6.3 HYDROGRAPH OF THE WATER LEVEL (10 YEARS)

A hydrograph is a graph showing stage discharge volume of runoff, or other properties of water flow with respect to time. Water Level data of the study area for pre monsoon, post monsoon, lean period and monsoon for last 10 years has been accumulated and plotted in graphical representations

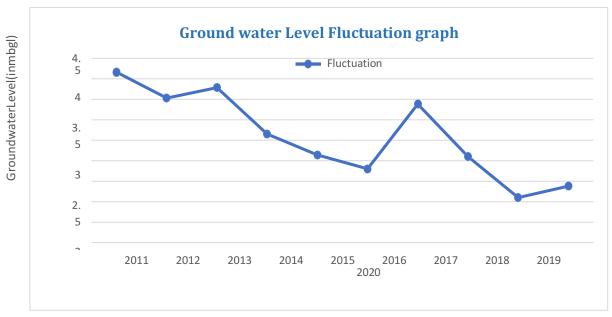


Figure:3.10: GroundWaterLevelFluctuationGraphinlast10year

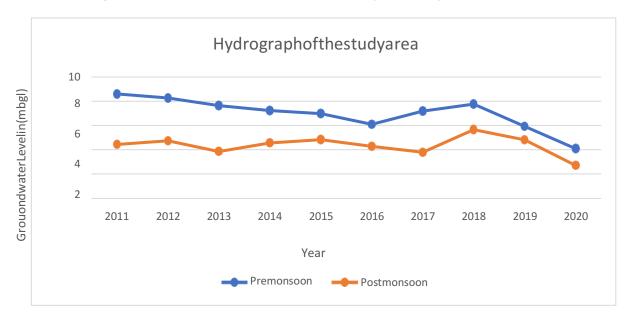


Figure 3.11: Hydrograph water level for Pre & post monsoon

HydrogeologicalReport M/s Jhabua Power Ltd. (Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

3.7 GROUNDWATER QUALITY ANALYSIS

3.7.1 Ground water quality

Primary sources of potable water in the area are mainly tube wells. Groundwater samples were collected from nearby study area. The analysis of the samples has been carried out in NABL certified approved lab. M/s Vibrant Techno Lab Pvt. Ltd.

Ground Water Quality Test Report has been attached as Annexure-I

3.7.2 Results of Ground Water Analysis

The chemical quality of underground water has been evaluated by chemically analyzing the water samples collected from existing borewells. The Physio-chemical quality of groundwater was compared with drinking water standard (IS: 10500- 2012). Analysis results of ground water reveal the following:

The physio-chemical quality of groundwater was compared with drinking water standard (IS: 10500- 2012). The results of chemical analysis of all the parameters of the groundwater samples show under permissible value.

3.7.3 Conclusion of Chemical test Result: -

Water sample was collected from the project site. The samples were analyzed for various parameters to compare with the standards for water as per IS: 10500- 2012. The chemical data report show that all the parameters are under the permissible limits and can be used as drinking purpose.

Ground water Results-

The Ground water quality of all location were observed to be slightly alkaline in nature with total alkalinity reaching upto 157.6 from 90.6 mg/L respectively in water samples against the prescribed limit of 200 mg/L (600 Permissible limit). Total Hardness in the water is reaching upto 182.36 mg/L from 108.64 mg/against prescribed limit of 200 mg/L but it is within the permissible limit of 600mg/L. However, remaining parameters are within the IS 10500: 2012 prescribed limits. TDS of the Ground water samples are reaching upto 337.0mg/L.

HydrogeologicalReport M/s Jhabua Power Ltd. (Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

Surface water Results-

The Surface water quality of all location were observed to be slightly alkaline in nature with total alkalinity reaching upto 193.1 from 141.8 mg/L respectively in water samples against the prescribed limit of 200 mg/L (600 Permissible limit). Total Hardness in the water is reaching upto 209.52 mg/L from 116.4 mg/against prescribed limit of 200 mg/L but it is within the permissible limit of 600mg/L. However, remaining parameters are within the IS 10500: 2012 prescribed limits. TDS of the Ground water samples are reaching upto 395.0mg/L.

CHAPTER-4 SummaryandConclusion

SUMMARY AND CONCLUSION

- Jhabua Power Limited (JPL) is a power generation company based at Seoni district in the State of Madhya Pradesh. The site is located near village Barela Gorakhpur, Tehsil Ghansore of Seoni District. JPL currently has 600MW thermal capacity fully operational and 660MW under implementation. The plant is generating power on commercial basis.
- The Climate of the study area characterized by a hot summer and general dryness except during the southwest monsoon season..
- The average annual rainfall of the district is 1145.13 mm, and is unevenly distributed over the area. The highest rainfall recorded is 1748.34mm in the year
- 2013 and the lowest rainfall is recorded is 504.55 mm in the year 2007.
- The area has undulating topography comprising hills of Satpura plateau from South to North. While the North Eastern part covered by Deccan plateau and falls at the altitude in between 325 to 740 m above MSL.
- The area North of Barghat is plane and Rice producing belt has covered by Bori Canal



M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)

system. The Keolari block has plateau like appearance and covered by good network of canals under Sanjay Sarovar Pariyojna.

- The Pariyat River near Biuai Village and Temor River near Pati village are the rivers flowing in the area having perennial flow.
- The black cotton soil, sandy loam, loams soil and moland soils are main soils in thearea.
- Water bearing formations are mainly Alluvium and Deccan Trap.
- Plant uses the surface water for the operation, process & domestic use from BargiDam(Rani Avanti bai dam)".
- A detailed groundwater level monitoring has been carried during pre and post monsoon season at about 8 different places within buffer zone from existing dug wells and bore wells.
- Pre monsoon depth to water level was observed between 1.8 to 7.5 mbgl.
- Post monsoon depth to water level ranges between 1.5 to 7.4 mbgl.
- The net ground water availability in the district is 79239 ham and ground water draft for all uses is 20,456 ham, making stage of ground water development 26 % as a whole for district. After making allocation for future domestic and industrial supply for next 25 years, balance available ground water for future irrigation would be 57784 ham at 50 % stage of ground water development's safe limits in the district.
- The predictable pattern of progress in water level from pre storm to post rainstorm of checking wells shows that there is no antagonistic effect in the ground water table in the venture region and bordering towns in view of the project site. In spite of the fact that Rain Water Harvesting designs ought to be fused in the project site to limit the intense variance in water level.
- Water level fluctuation is also very low in the study area.
- As per the Dynamic Ground Water Resources of India, 2017 the study area falls under Safe category.

JHABUA POWER

HydrogeologicalReport

M/s Jhabua Power Ltd.

(Village Barela-Gorakhpur, Post Office- Attaria, Tehsil-Ghansore, Dist-Seoni, MadhyaPradesh)



ANNEXURES



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) 15O 9001 | ISO 14001 | ISO 45001

Test Report

Sample Humber: Hame & Address of Party: VEL /GW/01 M/s flathus Power Limited Village-Barole,Gorakipur, District-

SeenLier

Sample Description: Sampling Location: Sample Collected by Preservation: Sampling & Analysis Protocol: Ground Water
Project Operation Gate
Vardan EnviroLab Representative
Entrigunated
19-10500-2012

Report No.:
Pertry Reference No.:
Reporting Date:
Period of Analysis:
Receipt Date:
Sampling Date:
Sampling Type:
Sample Quantity:

VEL/W/2202150001 7.8 F 01 4306005298 21/02/2022 15-21/02/2022 15/02/2022 12/02/2022 Grab 2.0 Lat.

THEY RESULTS

olimb (Jordan Continues	romando America do esta	Colorador and	THE REAL PROPERTY.	Limits of it	110540 -2012
S.Fin.	de Charles Englished	Tool Holland	Besult	The Case	Destroble Healt (Next.)	Paradethio Smit in the Absure of Abscrate Source (Max.)
1.	pM (xt 25*C)	APMA 23"Edition, 4500-H* B	7.34	4.	6.5 to 6.5	No Relacation
2.	Total Dissolved Solids	APMA 23-4040000, 2540 C	310.0	mg/l	500	2000
3.	Albeiteity of CoOOs	APRA 23-46/8tion, 2820 B	141.8	mg/L	200	500
4	Total Hardman at CaCOs	APRA 23=Settion, 2540 C	178.46	mg/L	200	600
6.	Mitrate as NOs	IS 3025 (P-34) 1909/RA2019	7.47	mg/l	48	No Relevation
6.	Chioride es Cl	APHA 23 Midition, 4500-CF B	39.44	mg/l	250	1000
7.	Sulphate at 804	APRA 23/464200, 4500 E	30.95	mg/L	200	400
6.	Calcium as Ca	APHA 28/48dition, 3500 Cu 8	54.43	mg/L	78	200
9.	Magnochum as ing	APMA 23#Bildon, 3500Mg B:2017	10.31	mg/L	20	100
10.	Fluoride as F	APEA 23-1 Edition, 2017, 4500-P D	0.58	mg/L	1.0	1.0
11.	from as Po	APMA 25-484,2017,3500 Fe- B	0.21	mg/L	0.3	No releasation
12.	Accomic as As	APHA (23 ⁻⁴ Edition)\$030D,3114E,2017	HOL(DL 4.442)	mg/L	0.01	0.05
18.	Morosty at Hg	APHA (23rd Edition)31128:2018	BDL(Dt. 0.0005)	mg/L	0.001	No relaxation
14.	Londas Pb	APHA 23 rd BdMon2017,30300,3111B	BDL(Dt. 0.402)	mg/l	0.01	No relexation
15.	Coderbum (as Gd)	APHA (23=1 Bdition) B111 B	BDL(Dt. 0.402)	mg/l	9.693	No relaxation
10.	Copperas Ca	APHA 23" Edition2017,3111B	BDL(Dt. 0.002)	mg/l	30.0	1.0
17.	Zincas Zn	APRA 23= 84.2017,	BDL(DL 4.41)	ma/l	F	18

(Checked By)

(Authorized Signatory)

www.verdan.co.in



Laboratory: Plot No. 82A, Sector - S, IMT Menesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sampl	e No.: VEL/GW/01			Repe	ort No. VEL/	W/220215040
	Control of the Control	married birth of the	Lie Carloneus	The state of	Limits of IS	:10500 -2012
S. No.	Parameter	Test-Method	Result	Unit	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
10.	Subminus as Se	AFRA (284 Edition)51148/2018	BDE(BE 0.001)	mg/1	0.01	160 relevation
19.	Turbidity	APEA 23*4606m, 2120 B	BOL(BL 1.9)	MTU	1	5
10.	Aborinion as Al	APEA 23 Tabbon, 3111 D	BDL(BL 0.001)	mg/l	0.03	0,2
21.	Hanganaso as Ma	APRA 23/9406m, 3111 B	B01(DL 0.01)	mg/l	6.1	0,2
22.	Recident Free Calorine	APRA (23" Seliton 2017)3500 CI	B81(DL 0.15)	mg/l	6.1	1
22.	Total. Coliform	15-1623-2809	About	MPH/ 100-A	Shall Not Be detactable in 100 pel	NA
24.	E. Colli	IB-1612-2009	About	Par 100ml	Shall Not Be detectable in 100 ml Sample	MA
25.	Cyunide as CN	APRA 4500CR-P	BOL(M. 4.15)	mg/l	20.0	No relectation
18.	Colour	APEA 23*45/8Hon, 2120 B	SDL(DL 1.0)	Hastin	6	15.
27.	Odene	APRA 28*Ritten, 2150 B	Agrecable	**	Agreeable	Agreeable
28.	Tarte	APEA 23*Billion, 2160 B	Agreeable	84	Agreeable	Agresside
29.	Anicole Determents as MRAS	APHA 29 ⁻¹ Bellow, 2017, 5540 C	BDL(BL 4.15)	mg/l	0.2	1.0
10.	Phonelic Compounds	APEA 25-TANSON, 5540 C	HDL(DL 6.6664)	mg/1	4.001	0.002
31.	Boren	APEA 25-Walkion, 4560 C	BDL(DL 0.01)	mg/l	0.5	1
21.	Chryspian as Cr	APHA 23-464,2017, 3111 B	BBL(DL 0.042)	mg/l	9.05	No relaxation

Makes, 49705, Bulley Bakertley First, 4705, Perterties, Limit

period

(Charlest Brid)

(Authorized Signatory)



Laboratory: Plot No. 82A, Sector - 5, BMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

mple Hember:

Home & Address of Party:

VEL./GW/02

M/s thebas Pewer Limited Barelo,Goraldhour, District-

Report No.2

Format Nea Party Reference No.

Reporting Date:

Period of Australia

Receipt Date: Sampling Dates

Sampling Type: Sample Quantity: VEL/W/2202150002

7.8 F 01 4300005216

21/02/2022

15-21/02/2022 15/02/2022 11/02/2022

Grab SALAT.

Sample Description: miling Location: Sample Collected by

Preservations Sampling & Analysis Protects: Greened Water Village-Bereis

Varian Envirolab Representative

Refrigerated RS-10500-2012

THIST RESMLTS

	THE PROPERTY OF THE	Lyndronelab Varaliner by	Late March and And	Unit	United 19:10500 -2012	
S.Ho.	Parameter	Tort-Hethod	Doub		Destrable Hmit (Hnx.)	Formierbile Senio to the Absorber of Absorber Sentro (Nego.)
1.	pH (st 25 °C)	APRA 28-954Hem, 4546-H+B	7.11		6.5 to 8.5	No Religiosión
2.	Total Dissolved Selids	APRA 23*66tion, 2540 C	239.0	mg/l	500	2540
3.	Alltallailty as CaCOs	APRA 23-William, 2320 B	90.6	mg/l	200	400
4.	Total Hardness as CaCO:	APRA 29-Mátrion, 29-ió C	188.64	mg/l	200	600
5.	Mitmake as RiOs	IS 3025 (P-34) 1908:RA.2019	4.15	mg/l	45	No Relaxation
6.	Chiloride us Cl	APRA 23-Edition, 4500-Cl-B	46.44	mg/l	200	1000
7.	Sulphate as 50+	APRA 23*Edition, 4500 E	23.62	mg/l	200	400
8.	Calcium as Ca	APHA 23"48ilition, 3500 Ca B	26.46	mg/I	78	200
9.	Hopseism to Hy	APHA 23"Edition, \$50000g Br2017	10.34	mg/l	20	100
10.	Phorida as P	APRA 23" BARGOL, 2027, 4500-P-B	0.52	mg/l	1.5	1.5
11.	Iren as Pe	APHA 23-44.,2017, 3500 Fe- B	0.17	mg/I	0.2	No relazzation
12.	Arcenic as Ac	APMA (23** Balting)34340,31148,2017	BDL(DL 6.002)	mg/l	9,91	9.85
13.	Hercary at lig	APMA (23= Báition)3112E:2018	EDF(Df e16642)	mg/I	0.001	No relection
19.	Lead as Pb	APNA 23 rd BdNion2017.8650D.31113	BDL(DL 6.002)	mg/I	0.01	No relaxation
13.	Cadminus (es Cil)	APMA (234 Bakton) 31118	BDL(DL 6.002)	mg/l	0.003	No relaxation
10.	Copporas Cu	APHA 23=4 Edition 2017, 8111B	HDL(DL 0.002)	mg/I	0.05	1.5
17.	Zine as Zn	APHA 23 nd Ed. 2017.	BDL(DL 0.01)	mg/l	S	13

(Authorized Signatory)

www.wardan.co.in



Laboratory: Plot No. 82A, Sector - 5,3MT Manesar, Gurugram - 122051 (Haryana) ISO 9002 | ISO 14001 | ISO 45002

Test Report

Sampl	e No. VEL/GW/02		Report No. VEL/W/220215000					
134	manufactural la	Married Company of the Party of	LAC SULLEY FOR	THERETON	Limits of IS	:10500 -2012		
S. No.	Parameter	Test-Method	Result	Unit	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)		
10.	Selemborn #4 Se	APRA (23 rd Dilition)9114B:2018	BDL(BL (L002)	Mg/l	9.81	No relaxation		
19.	Turbidity	APRA 29-Friday, 2540 B	EDE(DL 1.0)	HTTU	1	5		
20.	Alternations to Al	APRA 23-Felition, 3111 B	EDL(DL 0.002)	mg/I	0.48	0.2		
ZL.	Mangameto es Mo	APRA 28-Edition, 3111 U	B91(DL 0.01)	mg/l	0.1	0.2		
22	Resident Proc Ciderino	APRA (29** Edition 2017)8500 CI	BDL(DL 4.15)	mg/l	0.2	1		
20.	Total Coliforns	IS:8622:2009	About	1071V 100-1	Shall Not No detectable in 100 ml	MA		
24.	E.Coli	19:1422:2009	About	Per 100ml	Shall list by detactable in 100 ml	MA		
25.	Qualde as (III	APHA 4504CHD	BDL(BC 4.02)	mg/l	0.05	No relaxation		
26.	Colour	APRA 25-Rabban, 2120 B	BDL(BL 1.0)	Kasan	5	15		
27.	Odour	APRA 23-4600en, 2150 B	Agreeable		Agrandio	Agreeable		
2£	Tarke	APRIA 23-788Hom, 2160 B	Agreeshio	-	Agressble	Agreeable		
29.	Anienie Detergepts as MEAS	APRA 23 ⁻⁴ Rétition,2017, 5540 C	BBL(DL 0.05)	mg/l	4.2	1.0		
25.	Phonelic Compounds	APHA 23-456ition, 5530 C	EDF(DF 0'0002)	mg/l	0.001	0.002		
ZL.	Boron	APHA 2945Attion, 4560 C	EDL(DL 8.82)	mg/l	8.8	1		
32.	Chromium as Cr	APMA 23*464,3017,3111 B	B9L(DL 0.002)	mg/l	9.05	No relaxation		

Note: "EDL-Below Detection Limit, "DL-Detection Limit

(Checked By)

(Authorized Signature)



Luboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Humber:

Sanable Descriptions

Sampling Location:

Sample Callected by

Sampling & Applysic Protects

Preservations

Rame & Address of Party:

VEL /6W/48

M/s Jhabua Power Li refa/Gorakhpur, District-

Vardan EnviroLab Representative

Ground Water

Retriporated

15-10500-2012

Villago- Paparihir

Report No.: Permat Ne.:

Party Reference No.

Reporting Dute:

Period of Analysis:

Semple Opentity:

Becoipt Date: Sampling Date: Sampling Type: VEL/W/2202154663

7.8 F 01 4300005298

21/02/2012 15-21/02/2022

15/02/2022 11/03/2022

Grab 2.0 Lar.

THEST RESULTS

35747-1	arrian miles 2 4	THE HAR LANDS OF THE	1 V-1 - 1/9	Unit	Limits of 15:14500 -2012	
\$.Ho.	P	Too-Mathed	Roman and an area		Desirable limit (Han.)	Permindido Busit in the Absorber of Absorber Source (Next)
1	pB (at 25 °C)	APHA 28/454Mon, 4500-81- B	7.16		6.5 to 8.5	No Referention
2.	Total Dissalved Solide	APHA 22-Edition, 2540 C	272.6	mg/l	500	2000
3.	Alicalinity as CaCO ₂	APHA 23-Salico, 2320 H	118.2	mg/l	500	500
4	Total Hardness as CaCO:	APHA 28-/Báltion, 2840 C	120.28	mg/l	200	608
z.	Mitrate at 100;	IS 3025 (P-84) 1948:RA.2017	2.42	mg/l	45	No Relexation
6	Chilerate as Cl	APRA 28-48/MAIN 4500-Ch B	65.02	mg/l	250	1996
7.	Sulphate as SO ₄	APHA 23"Sättlen, 4500 B	37.71	mg/l	200	409
6	Calchen 44 Ca	APHA 23-46-lition, 3500 Ca B	8421	mg/I	75	200
9.	Hagneston as Hig	APEA 25'484Hou, 85000g B:2017	8.64	mg/I	30	1.00
10.	Fluorida es F	APHA 23=1 EARSAN, 2017, 4500-P D	0.50	mg/I	1.0	1.5
12.	tron as Fe	APRA 25/953,2017.2500 Fe- B	0.21	mg/I	0.3	No reheation
12.	Arcanic as As	APHA (23 rd Edition)343400,31148,2017	BBL(BL 0.402)	mg/I	9.01	0.05
13.	Mercary as Hg	APHA (23" Bálticu)31120:2018	BDL(DL 9,9905)	mg/I	0.001	He releastive
14.	Reed as Pb	APMA 28 rd Edition2017.30340.3111B	BBL(BL 0.402)	mg/I	0.01	Fig.
13.	Cadaniam (as Cd)	APHA (23" BORION) 3111 B	BDL(DL 0.442)	mg/l	0.001	No reheastion
14.	Copper as Os.	APHA 22 rd Edition 2017,32128	B9L(9L 0.442)	mg/I	0.05	1.5
17.	Ziec es Zu	APEA 23# BA. 2017,	BDL(DL 0.01)	mg/l	5	15

(Checked By)

(Authorized Simetory)





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sampl	e No.r VEL/GW/03			Rep		W/2202150003
			A PLANTAGE TO SERVICE AND ADDRESS OF THE PARTY OF THE PAR	-14713	Limits of IS	:10500 -2012
S. No.	Parameter	Test-Method	Result	Unit	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
10.	Selenisms as So	APHA (28** Edition)31140:2018	BDL(DL 0.001)	mg/S	0.01	No referention
19.	Turbidity	APRA 28-54660, 2150 B	MDL(ML 1.0)	NTO .	2	5
18.	Alternations as Al	APRA 25-Edition, 3111D	8DL(DL 0.002)	mg/l	80.0	0.2
21L	Magnacre as Ma	APRA 25-Talkion, 3111 F	BDL(BL 4.41)	mg/l	0.1	0.1
22.	Residual Pres Calorine	APEA (28** Billion 2017)3500 Cl	8DL(DL 0.15)	mg/l	0.1	1
28.	Total Coliforni	M-1422-2409	About	MPN/ 100ml	Shall Not Pe detectable in 100 ml Seconds	HA
24.	9.008	15:1622:2009	About	Per 100mil	Shall Het Be deincichle in 100 ml	NA
25.	Cyantile as CH	АРНА 4604СП-D	BDL(DL 6.02)	mg/l	9.66	No releasition
24.	Colour	APHA 29-William, 2126 B	EDL(DL 1.0)	Menon	5	15
27.	Odeur	APHA 28*Sellion, 2150 B	Agreeable	-	Agresshio	Agresshio
28.	Taste	APNA 29-Walson, 2160 H	Agreeable	**	Agreeable	Agresable
29.	Anionic Determents us	APRIA 23-1 54Rion, 2017, 5540 C	\$94(DL 6.02)	mg/l	0.2	1.0
30.	Phanelic Compounds	APRA 23-TEARSON, SEED C	ODL(DL 0.0004)	mg/l	0.001	0.002
51.	Boren	APRA 23=454khm, 4560 C	1251(DL 4.01)	mg/l	0.5	1
32.	Agreeable as Cr	APRA 23-454,2017, 3111 B	BOL(DL 0.002)	mg/l	0.65	He releastion

Note: "BUL-Buley Detection Limit, "DL- Detection Limit.

(Checked By)

(Authorized Stanstory)



Laboratory: Plot No. 82A, Sector - 5, (MT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number

Name & Address of Purty:

VEL /GW/04

M/s Jimbus Power Limited Village-Baruin,Goralquer, District-

SeemLMP

Report No.: Permet No.:

Permet No.: Party Enforcemen No.:

Reporting Date:

Period of Analysis: Beceipt Date:

Sampling Date: Sampling Type: Sample Quantity: VBL/W/2242150004 7,8 F 01

7,0 F 01 4300005298

21/02/2022

15-21/92/2022 18/02/2022 11/02/2022

Grab 2,0 lar.

Sample Description Sampling Locations Sample Collected by Preservations

Protorvation: Sampling & Analysis Protocol: Ground Water Village- Blankii

Vardon EnviroLob Representative

Refrigorated IS-10500-2012

TEST RESULTS

100	COLUMN TAXABLE NO. VI	The state of the s	u-ti Vantair Bany		Limits of 15	E10500-2012
S.Ho.	Parameter	Tool-Mathod	Brenit	Environ.	Posicable Healt (Pez.)	Permissible Makin the Absumes of Attorness Source (Max.)
1.	pH (at 25 °C)	APHA 22*Sakine, 4566-N+ B	7.36		65 to 8.5	No Balancifou
1.	Total Biaseland Solids	APRA 23-168thm, 2540 C	294.0	ma/1	500	2000
1.	Albalinity as CaCO ₃	APHA 23-William, 2320 B	149.7	002/3	200	600
A .	Total Hardness as Gatto	APRA 23=Edition, 2540 G	162.96	-g/1	200	600
\$.	Nitrate as NOs	IS 5025 (P-34) 1940/RA.2019	6.64	mg/3	45	No Polauntion
6.	Chiloride as Cl.	APHA 73/950kton, 4500-CE-15	55.73	ma/I	250	1000
7.	Salphate to 50:	APRA 25*Séltion, 4500 B	28.28	ma/1	200	400
6.	Calchum to Ca	APNA 23"Edition, 3500 Ca B	48.21	Mg/l	75	200
9.	Magnesium as Hig	APHA 23-William, 350004g 0:2017	10.31	Mg/l	30	100
10.	Phoride as F	APRA 23rd Billion, 2017, 4500-P-D	0.62	Mg/l	1.0	1.5
11.	iren as Fe	APMA 23=464.2017, 3500 Fe- F	0.22	Mg/l	0.3	No relucation
12.	Appenic as As	APMA (23 rd Balting)3484D,3114B,3017	EDL(DL 4.082)	Mg/l	0.01	0.05
13.	Mercury as lig	APMA (23" B(Rios)31128:2010	EDL(DL 0.0005)	Mg/l	0.081	Ho relaunties.
14.	Lood as Ph	APHA 23=0 Bditton2017,3634D,3111B	EDL(DL 4.002)	Mg/l	4.61	No referention
15.	Codmiene (so Cd)	APMA (2514 Million) 3111 B	IDL(DL 4.002)	mg/l	\$00.0	Ho relaxation
16.	Copperas Cu	APMA 23-4 Bditlou 2017,3111B	EDL(DL 4.002)	mg/L	0.05	1.5
17.	Zinc as Zn	APHA 23-180, 2017,	(EDL(DL 0.01)	mg/t	- 5	15

(Checked By)

(Authorized Signatory)



Laboratory: Plot No. 82A, Sector - 5, fMT Manesar, Gurugram - 122051 (Haryana) ISO 9801 | ISO 14681 | ISO 45801

Test Report

Sampl	e No.; VEL/GW/04			Rep	ort No. VEL/	W/2202 15000
440	MT THE STATE OF	and the same of th	-tale kenderalas	trushing.	Limits of IS	:10500 -2012
S. No.	Parameter	Test-Method	Result	Unit	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
18.	Selvatura er Se	APRA (23* Billion)3114B:2018	BBL(DL 0.001)	mg/l	0.01	No relegation
15.	Tuckidity	APSA 29*Saltion, 2130 B	BOL(DL 1.0)	HTU	1	5
24.	Alternánicos es Al	APRA 23-404Hos, 3111 D	BBL(DL 0.001)	mg/l	0.63	0.2
21.	Hangmese as No.	APHA 29*Sättlen, 3111 S	BOL(DL4.01)	044/5	0.1	9.3
22.	Residual Proc Chineino	APRA (23=15dition 2017)3500 Cl	BOL(DL4.01)	mg/l	0.2	1
23.	Total, California	IS:1672:2009	About	MPH/ 100ml	Shall Not Do detectable in 100 ml Seconds	MA
24.	E. Coli	19:1422:2009	About	Per 100mi	Shall Not Bo detactable in \$60 ml Shangle	MA
22.	Qualific at CN	APMA 4500CH-b	BOL(DL 4.01)	mg/1	0.66	No relevation
24.	Colour	APRA 23-Théition, 2120 E	HOL(DL LO)	Hanen	5	15
27,	Odear	APRA 23-46tion, 2130 B	Agreeable		Agreeable	Agreeable
22.	Teste	APRA 27"Bilition, 2160 B	Agreeable	80	Agresoble	Agresoble
29.	Anionis Hangmasons MRAS	APHA 23** Bellion, 2017, 5540 C	BBL(DL4.01)	mg/1	0.2	1.0
29.	Phoneile Compounds	AFSA 23-456Rico, 5630 C	EDE(DL 0.0004)	mg/l	0.001	0.001
31.	Boron	APRA 22-Talbina, 4504 C	HOL(DL 0.01)	mg/l	0.5	1
32.	Chromium as Cr	APHA 29454,2017, 3111 B	BBL(DL 0.042)	044/3	0.68	No relegation

Note: "EDL-Below Detection Lindt, "DL- Detection Lindt,

(Checked Brit

(Authorized Simplory)

VEGTA PARALLY ADDRESS OF

www.wardan.co.k



Laboratory: Plot No. 82A, Sector - 5, IMT Maneser, Gurvigram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Humbers Hame & Address of Party: YBL/GW/48 M/s Shahun Power Limited Wilage-Barole,Gorakhpur, District-

SeenLMP

Jumple Descriptions Sampling Location: Sample Callected by Preservation:

Sampling & Australs Protocols

Ground Water Village- Dulfanger

Yardan EnviroCab Representative

Refrigerated ES-10500-2012 Report No.

Portant No.2 **Facty Reference No.:** Reporting Date:

Period of Applysis: Racelpt Date: spiting Pater uling Type: Sample Quantity:

VEL/W/2202150005

7.8 F 01 4300008256 21/02/2022

15-21/02/2022 18/02/2022 11/02/2022 Grab

2.0 Ltr.

TEST RESULTS

	in lan command M	Sudament in the sections	PO AN OF EM	uton Vi	Limits of IS:10500 -2012	
S.No	Control of the Contro	Text-Hothed	on the state of th	-	Decirable itselt (Her.)	Perusicable limit in the Alternate of Alternate Source (Max.)
1.	pH (et 25 °C)	APHA 23-46dhioo, 4500-E+ E	7.42	**	45444.5	No Belomtice
2	Total Disselved Solids	APHA 23**Bdition, 2540 C	337.0	mg/l	500	2000
3.	Alleafenity as CaCOs	APHA 23*Baltion, 2320 B	137.9	mg/l	500	500
4.	Total Hardness as CaCO:	APRIA 22MBelition, 2340 C	192.36	mg/l	280	660
5 .	Mitrato as MO ₃	E 3025 (P-34) 1988/RA2019	6.64	mg/l	45	No Relaxation
6	Chloride as Q	APHA 28*4Mion, 4600-CF B	59.44	mg/l	250	1000
7.	Sulphate as 50.	APHA 23**Billion, 4500 B	33.8	mg/l	250	400
8.	Calcium as Ca	APHA 23-45dition, 2500 Ca B	54.43	mg/l	75	286
9.	Magneshim as Mg	APHA 23=41dition, 3506Ng 3:2017	11.25	mg/l	30	100
18.	Financials as F	APHA 23 Bellion, 2017, 4500-P D	6.64	mg/l	1.8	1.8
11.	Iron as Po	APHA 29464,2017,3500 Fo- B	0.33	mg/l	8.5	No relevation
12.	Arseole as As	APRA (23 ⁻⁴ Edition)348400.31148.2017	BDL(DL 8.002)	mg/l	9,81	4.45
13.	Hercmy as Fig	APHA (23" Biltion)31128:2018	BDL(DL 0.0005)	mg/l	0.001	No releasation
14.	Leed as Pb	APRA 25 ^{ad} Baltica 2017,3434 B.3111 B	BDL(DL 0.002)	me/l	0,01	No relevation
15	Cadindem (nr Cd)	APHA (234 Bilition) 3111 B	BDL(DL 0.002)	me/l	0.003	No relevation
16.	Copper as Cu	APHA 23 ⁻⁴ B0864x2017,31118	BDL(DL 0.002)	mg/l	4.45	1.5
17.	Zincas Zn	APHA 294 E4 2017,	BDL(DL 0.01)	mg/l	8	15

(Authorized Signatory)





Laboratory: Plot No. 82A, Sector - S, IMT Maneser, Gurugram - 12 2051 (Haryana): 850 9001 | 850 14001 | 150 45001

Test Report

Saucel	e No.: VEL/GW/05			Rep		W/2202150009
	In all the first transfer to			The Land	Limits of \$5:19500 -2013	
£ Ho.	Parameter 1911	Test-Muthed		Units	Dustrable Itself (1900-)	Pormiecible Made in the Absence of Absence Source (Max.)
18.	Selentum as So	APRA (23" Billion)31148:2018	BDL(DL 0.001)	mg/I	9.91	No relevation
19.	Turbidity	APRA 2345dition, 2139 8	BDL(DL 1.4)	NTU	1	2
26.	Alexandren as Al	APRA 23*458tion, 3111 D	BDL(DL+##1)	mg/l	0.03	0.2
21	Manganese as Min	APRA 28 Edition, 3111 S	EDL(DL.0.01)	mg/l	0.1	0.2
22.	Residual Proc Chiertue	APHA (25" Báition 2017)3500 CI	BDL(DL 0.15)	mg/l	0.2	1
23.	Total-Californ	10.1622-2809	Abmat	MPH/ 100ml	Shall Not Bo detectable in 100 ml	NA
24.	£. Coli	18:1622:2009	About	Per 100mi	Shell Not En detectable in 100 ml Sample	NA
25.	Cyneside as Chi	AFRA 4500CH-D	MDL(DL 4.02)	mg/l	4.65	No relegation
24.	Colour	AFRA 28 48 ditten, 2120 B	BDL(DL 1.4)	Hasen.	5	15
27.	Odour	APHA 23Midition, 2150 B	Agreeable	Det I	Agreeable	Agreeable
26.	Tasta	APMA 23-Waltion, 2160 Jt	Agreeable	84	Agreeable	Agreeable
23.	Anionic Detergents as MRAS	APRA 22 rd Billion,2017,5549 C	EDL(DL 4.05)	mg/l	0.2	1.0
24.	Phonolic Compounds	APRA 23-William 5540 C	HDL(DL 0.0004)	mg/l	0.001	0.001
31.	Beron.	APSIA 23/45/Mon, 4500 C	BDL(DL 9.91)	mg/l	0.5	1
37.	Chrombon as Cr	APHA 23-Bd.3017.3111 B	BDL(BL 0.002)	mg/l	0.45	No relegation

Makes *NDL-Helow Detection Shalt, *DL- Detection Limit.

(Checked By)

(Authorized Signatory)



Laboratory: Plot No. 82A, Sector - 5, IMIT Manesar, Gurugram - 12 2051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Name & Address of Party:

VEL /GW/06

M/s theban Power Limited

Barela,Goreldger, District-

SeepLMP

Sample Description: Sampling Location: Sample Collected by Propervations

Sampling & Analysis Pressoci

Ground Water Village-General

Vardan Envirolab Representative

Refrigerated ES-10500-2012 Report Neu

Format Ne.:

Party Reference No.: Reporting Dates

Period of Analysis: Receipt Peter

Sampling Date: Sampling Type: Sample Quantity: VEL/W/2202150006

7.8741 4304005248

21/02/2022

15-21/02/2022 15/02/2022

11/02/2022 Grab 2.0 Ltr.

TRET RESULTS

S.Ma.	Payameter	Test Method	Total Control of the	Late of the late o	Limits of 13:10500 -2012	
					Destrable limit (Max.)	Permindide Basic in the Alberton of Alberton Senaton (Max.)
1.	pH (at 25 °C)	APRA 25-Waldon, 4500-St- B	7.84	**	6.5 to 8.5	No Referention
2.	Total Disselved Sellds	APRA 23 Matrice, 2540 C	327.0	wg/l	500	2000
2.	Albalinity as CaCO ₃	APRA 23*Baltion, 2828 B	134.0	mg/l	200	686
4.	Total Hardness as CaCOo	APRA 23 Midition, 2340 G	162.96	mg/l	200	686
5.	Mirate as MOs	IS 3025 (P-34) 1908:RA.2019	6.72	mg/l	45	No Referention
4	Chloride as Cl	APRA 23-45dition, 4500-Cl- II	66.87	mg/l	200	1000
7.	Sulphate as 504	APHA 23-SANIML 4500 E	35.61	mg/l	200	400
5.	Calcinna es Ca	APRIA 23-Talkion, 3500 Ca B	35.90	mg/l	75	200
9.	Hagnedon as Ng	APEA 23-Edition, 350004g B:2017	5.59	mg/l	20	1.06
10.	Placelde as P	APHA 23~ Edition,2417, 4540-P-D	6.78	eng/l	1.0	1.0
11.	Iron as Fe	APRA 29-464,2017,8500 Fe- B	0.25	eig/I	8.8	He relaxation
12.	Acsenic so As	APHA (23 rd Edition)\$030D,3114E,3027	BDL(D1 0.402)	mg/l	0.01	0.65
13.	Mercury as Hg	APHA (23rl B4Mon)3112B:2018	EDL(DL 0.000E)	erg/l	9,091	He relaxation
14.	Lead as Pb	APNA 23 rd Edition2017,30300,5111B	BDL(DL 0.402)	mg/l	0.01	No releasation
15.	Codesinos (as Cd)	APRA (23= Edition) 3111 B	BDL(D1 0.402)	wg/l	0.001	the retrucation
10.	Copper as Cu	APRA 23~ #6Kfon2017,5111B	BDL(DL 0.402)	mg/l	0.06	1.5
17.	That as Zn	APEA 23=184.2017,	SDL(DL 0.01)	eng/l	5	18

(Checked By)

(Authorized Shanator

a a wa dia wa a bia isa sa sa s

surus, vandan, co. in



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Teet Report

Sampl	e No.: VEL/GW/06			Repo	ort New VEL/	W/2202 15000
	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
S. No.					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
18.	Selenium as Se	APRA (23=56Hon)81148:2018	EDL(DL 0.001)	mg/l	0.01.	10e reluxation
19.	Terbidity	APEA 25-Edition, 2190 B	BOL(BL 1.4)	MTU	1	E
20.	Aleminium as Al	APEA 29=68kion, 3111 D	BDL(BL 6.002)	mg/l	0.03	0.2
21.	Manganese as Ma	APEA 25 Tolkion, 3111 B	BDL(BL 0.01)	mg/l	0.1	0.2
22.	Residual Pres Chiorine	APSIA (23-1 Edition 2017)3500 CI	B0E(BL 0.15)	mg/l	0.2	1
29.	Total. Caliform	B16222009	Absent	1675/100ml	Shall Not Be detectable to 100 mil Secols	NA
24.	E Calt	M:1422:2009	Mount	Per 100mi	Shall Not Be detectable in 100 ml Shangle	ж
25.	Cyanide as Cil	APRA 4500CN-D	BDL(BL 0.42)	mg/l	9.05	No relevation
25.	Colour	APEA 23-Edition, 2190 B	BOL(DL 1.0)	Hanen.		55
27.	Odour	APEA 25-Talmion, 2150 H	Agreeable	**	Agreeable	Agreeable
26.	Torte	APEA 23-Edition, 2160 E	Agresable	44	Agreeable	Agreseble
29.	Antonic Detergoats as:	APEA 23rt Edition, 2017, 5540 C	B96(00.0.15)	mg/l	0.2	1.0
36.	Phonolic Compounds	AFRA 23*45@tion, 8590 C	BDL(DL 0.0004)	wg/l	0.601	9.992
31.	Beren	APEA 23"Edition, 4500 C	BOL(DL 0.01)	mg/l	4.5	1
32.	Chronden as Cr	APRA 28-44,3017,3111 B	BDL(DL e.#43)	mg/l	4/05	No reincation

Notes 'SOL-Order Detection Limit, "DL- Detection Limit.

(Checked By)

ALTA PRIVATIVA EXERTE

(Authorized Signatury)

www.vardan.co.i



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Harvana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

ole Humber:

Name & Address of Party:

VEL /GW/97

M/s thebus Power Li

Barela,Gerakhpur, District-

Sample Description:

Secoling Locations Sample Collected by

Propervation: Sampling & Analysis Protocok Ground Water

Village- Dela Vardon EnviroLab Representative

Refrigerated IS-10500-2012 Report No.

Forwart New Party Reference No.:

Reporting Date:

Period of Analysis: Receipt Date:

Sampling Date: Sumpling Type: Sumple Quantity: VEL/W/2202150007

7.6 7 61 4300005296

21/02/2022

15-21/02/2023 15/02/2022

11/02/2022

Grab 2.0 Ltr.

THEST RESULTS

	America I I Material Control	Carl Display Display	E VINEN DE		Charles of 15	M10000-2012
S.No.		Tost-Method	Book	Umit	Bestrable Hmit (Hax.)	Permissible Shaft in the Absorber of Abbresion Source Office
1.	pH (st 2540)	APRIA 23-484kion, 4500-11- B	7.33		6.S to 8.5	No Releastion
2.	Total Dissolved Solids	APRIA 23/48dition, 2540 C	310.0	Mg/I	800	2000
3.	Albeitally as CaCOs	APMA 29-450Hos, 2320 B	157.6	Mg/I	200	680
A .	Total Hardness ss CaCOs	APHA 23:46dition, 2340 C	192.36	mg/l	200	680
5.	Alternio de 1405	IS 3025 (P-34) 1980;RA2419	7.4	Hig/S	45	No Releastion
6.	Chloride as Cl	AFBA 25**Edition, 4500-Cl-B	50.15	Hig/I	250	1000
7.	Sulphato as SO ₄	APEA 23**Billion, 4500 E	37.71	mg/l	200	400
S.	Calidam as Ca	APHA 23=450kion, 3500 Ca U	E5.94	Hig/I	75	200
9.	Magnesium 46 Mg	APHA 25-Sakton, 5500Hg 3:2017	10.8	mg/I	20	100
10.	Phorida as F	APMA 22" Biblion, 2027, 4500-P D	0.68	reg/I	1.0	1.5
11.	from as Fo	APRA 23-984,2417,3500 Fe- H	6.22	mg/f	0.3	No relaxation
12.	Arsenic as As	APHA (23 rd Edition)3030D,3114B,2017	Bariar even	mg/l	0.01	0.05
15.	Marcary as Hg	APHA (23rd Edition)31128:2018	HDL(DL 0.0005)	mg/t	0.001	No relacation
14.	Land sz Pb	APMA 29** Edition2017,30300,31118	BB1(DL 0.002)	mg/t	16.6	Ho relevation
15.	Codmium (as Cd)	APHA (23= BARSon) 3111 B	BDL(BL 6.662)	mg/l	0.003	No relexation
14	Copperas Co	APMA 23-4 ####################################	BDL(BL 0.002)	mg/f	0.05	1.8
17.	Zinc se Zin	APRA 22 rd Ed. 2017,	EDL(DL 0.01)	mg/f	5	15

(Authorized Stenetory)





Laboratory: Plot No. 82A, Sector - S, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 24001 | ISO 45001

Test Report

Securit	a No.: VEL/GW/07			Rep		W/220215000
MY		EN HERVEL TO LEAD IN		Total all Metal	الأله طنستر	k10500 -2012
S.No.	Parameter .	The Method	Resid	***	Destroble that (Max.)	Purpolestible South in the Abstracts of Albertaits Source (Max.)
18.	Selections as Se	APRA (23-1 Báblos)51149:2010	BDL(DL 0.001)	-4/1	0.01	No relaxation
10.	Turbidity	APMA 25-484kion, 2130 B	BDL(DL 1.4)	NTU	1	5
20.	Alogalobou as Al	APRA 23 Cition, 3111 D	HDL(DL 0.002)	mg/l	0.01	0.2
21.	Manganese as No.	APRIA 23-4Edition, 311118	HDL(DL 0.01)	mg/l	0.1	0.2
22.	Basideal Pres-Calorine	APHA (23rt Edition 2017)3500 CI	6DL(DL 0.15)	mg/l	4.2	1
23.	Total. Golfferus	E94622-2000)	Abount	NPN/ 199cal	Shall Not Be detactable in 100 ml Sousple	NA.
24.	E. Cold	IS:1622:2009	Abount	Per 190ml	Shall Not Be detectable in 100 ml Sample	JIA
25.	Cronide as Of	APHA 4500CR-D	HDL(DL 0.01)	mg/l	0.65	No reinzation
26.	Colum	APHA 25-William, 2120 B	COL(OL 1.0)	Hesen	5	15
27.	Odesc	APRIA 23/Edition, 2150 E	Agreeable		Agreesble	Agrasable
22.	Taxte	APHA 23 456ition, 2160 B	Agreceble		Agreeable	Agreeable
29.	Anionic Detergante at MRAS	APRIA 23-4 Edition,2017, 5540 C	EDL(DL 4.45)	Jug/I	0.2	1.0
30.	Phonolic Compounds	APSIA 29-Edition, 5530 C	BDL(bl. 0.0404)	mg/l	4.001	9.902
31.	Beren	APHA 234EARton, 4500 C	B96(DL 0.01)	mg/l	4.2	1
31.	Chromium as Cr	APRA 23-44,2017, 3111 B	BDL(DL 0.002)	mg/l	4.05	No releasation

Makes - PROL-Relew Betaction Limit, PDL Detection Limit.

(Checked By)

(Authorized Signatory)



Laboratory: Plot No. 82A, Sector - 5, (MT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:

Name & Address of Party:

VEL /GW/00

M/s Shahua Power Limited VMaps-Barela/Gorekhper. District-Scont/AP

Permet No.: Purty Reference No.

Report No.:

7.8 P 01 4340045298

Reporting Date:

21/02/2022

VEL/W/2202150008

Period of Analysis: Receipt Date:

18-21/02/2022 15/02/2022

Sampling Date: ting Type: Saucele Quantity:

11/02/2022 طوبت 2.0 Ltr.

de Description: Sampling Location: Sumple Collected by Preservations Sampling & Analysis Prosecol:

Ground Water Williago Goraldaper Varian Envirolab Representative Rofrigarated M-10509-2012

TEST RESULTS

	SETUN STREET, STEP	The state of the same of the same	of Vinters of		Limite of 13/10500 -2012	
S.Ha,	Parameter Indian	Test-Method	Bendt	Unit	Destrable Marit (Mari.)	Permissible Small in the Absorber of Albert mate Secret (Mag.)
1.	pM (at 25 °C)	APEA 23-48dition, 4500-R+B	7.46	-	6.5 to 4.5	No Relaxation
2	Votal Disselved Solids	APRA 28*Waltion, 2540 C	311.0	mg/l	500	2000
3.	Allosinity as CaCO ₁	APEA 23400ion, 2320 B	145.8	mg/l	500	440
	Youd Hardness as CaCO ₂	APNA 23-40dition, 2740 C	166.84	mg/l	200	600
3.	Mitrate as NOs	IS 5025 (P-34) 1960-RA2019	5.89	mg/l	45	No Relaxation
6.	Chiloride no Cl	APRA 23-45dition, 4500-Cl-B	89.01	mg/l	250	2000
7.	Sniphate as 904	APEA 23"Edition, 4600 B	30.47	mg/l	200	460
8.	Calcinus as Ca	APRA 28-Welton, 3500 Ca B	52.87	mg/l	78	200
9.	Negnesium as Hig	APMA 23-484kion, 850664g 3:2617	8.42	mg/l	30	200
10.	Pluorido as P	APRA 23rd Billion, 2017, 4540-P-B	0.64	mg/l	1.0	1.0
11	from as Po	APHA 23-44,2017, 1500 Fe- 1	0.22	mg/l	0.3	No relexation.
12.	Acondic as As	APEA (23** Bilition)34340,31148,2417	MDL(DL 8.002)	mg/l	0,01	9.85
12.	Mercury as Fig.	APMA (23 rd Billion)31128:2016	HDL(DL 0.0005)	mg/l	0.001	No relexation
12.	Lond as Ph	APHA 25 ⁻¹ Edition2017,30300,3111B	MDL(DL 8.002)	mg/l	0.01	No erefectation
15	Cadmium (as Cd)	APMA (23 ⁻⁴ Edition) 3111 B	MDL(DL 6.002)	mg/l	0.001	No relexation.
16.	Copperas Co	APRA 23 rd Baltion2017,3111B	HDL(DL 0.002)	mg/l	0.05	1.5
17.	Zinc as Zn	APRA 23rd Bd. 2017.	BDL(DL 0.01)	ma/l	5	16

(Checked By)

(Authorized Signator)





Laboratory: Plot No. 82A, Sector - 5, IMT Maneser, Gurugram - 122051-(Haryana) ISO 9001 | ISO 14001 | ISO 49001

Test Report

Sampl	e No. VEL/GW/08			Rep	ort No. VEL/	W/220215000
	Andre Statement of	ana parlough yannya ca ir	La Courtes File	Part Carl	Limits of IS	:10500 -2012
S. No.	Parameter	Test-Method	Result	Unit	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
14.	Solunium as Se	APRA (23" B@Gos)31148\2018	60L(DL 6.001)	mg/l	0.01	No relaxation
19.	Turbidly	APHA 23*49&dos, 2130 B	EBL(DL 1.0)	NTU	1	5
14.	Alterniadore no Al	APRA 29-98Nos, 3111 D	2001 (DL 0.001)	mg/l	8.03	0.2
21.	Hanganese as No.	APRA 29*Edition, 9111 B	COL(DLO,011)	mg/l	0.1	0.3
21.	Restdant Pres Chierton	APRA (254 Edition 2017)8500 Cl	DML(DL 0.15)	mg/l	9.2	1
23.	Total Collibran	18:1622/2009	About	MPH/ 100ml	Shall Not Be detactable to 200 ml	MA
24.	E-Coli	19:1422:2009	About	Per 100mi	Shall Het De detectable in 180 ml	MA
23.	Cyanide as CN	APRA 4500CH-D	BDL(DL 0.01)	mg/l	0.05	No relaxation
24.	Colour	APRA 28-Edition, 2120 B	BBL(DL 1.0)	Hoe.	5	15
27.	Odour	APRA 23 Gallion, 2130 B	Agreeable		Agreeable	Agreeable
28.	Teste	APRIA 23"Sáltien, 2160 B	Agreeable	-	Agreeable	Agresoble
29.	Andonic Determents as MBAS	APICA 23-1 Edition,2917, 5540 C	2014(DL 0.01)	mg/l	9.2	1.0
30.	Phonelic Compounds	APRA 23-454ition, 5540 C	RDL(DL 6.0004)	mg/l	0.001	0.001
31	Boron	APRA 23*68tion, 5540 C	BOL(BL 0.04)	/	0.5	1
32.	Chrominin as Cr	APRA 29-46,2017, 3111 B	EBL(DL 0.002)	mg/I	4.03	No relaxation

Note: *BDL-Balow Detection Limit. *DL-Detection Limit

(Checked By)

(Authorized Signatory)

VEGA DA PARAMERA

serente vanden en le



Laboratory: Plot No. 82A, Sector - S, IMT Manesar, Gurugram - 1220S1 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Haras & Address of Purtre

VBL /SW/01

N/a Jhahna Fower Limited

Barela Goraldour, Bistrict-

SecusAIP

ple Description:

Sampling Location: Sample Collected by Preservation:

Sampling & Analysis Protocol:

Surface Water

Partyst River Varden EnviroLab Represe

Refrigorated IS-10500-2013

Report No.

Pormet Heat Party Reference No.: Reporting Potes

Paried of Analysis: Receipt Date: Sneapling Date:

Sampling Types Samuele Quantity: VEL/W/2202150011

TETRA 4504045768 21/02/2022

18-21/02/2022 15/02/2022 12/02/2022

Greb 24 Ltr.

THE RESULTS

S. No.	Paramiter of Variance to	Test-Hothed	And Resilt with	Total .
1.	pM (at 25 °C)	APRA 28*Edition, 4500-R* B	7.89	-
2	Total Disselved Solids	APSA 23 4 dikion, 2540 C	253.0	mg/l
B.	Total Suspended Solids	APRA 23ºBillion, 2540 D	6.8	mg/l
4	Alicalisally as GaCOs	APHA 23**Sdition, 2320 B	141.0	mg/l
5.	Total Hardness as CaCOs	APSA 23-Siltion, 2340 C	102.26	mg/l
4.	Mitrate as NOs	(53035 (P-34) 1988:RA2019	2.42	mg/l
7.	Odortés es Cl	APHA 23-46dRion, 4500-Cl-B	24.15	mg/L
5.	Subpliate as SO:	APRA 23-Baitlen, 4500 E	6.67	mg/L
5.	Calcium as Ca	APHA 23 Telition, 8500 Ca B	32.66	mg/L
10.	Hagnarium as Hig	APRA 23/46/cion, 23/40 B	24.47	mg/L
11.	Phoride as F	APRA 23" Edicion, 2017, 4500-F-D	0,56	mg/l
12.	iron es Po	APHA 25*BA,2017,3500 Fe- D	0.12	mg/I
12.	Cudminm (as-Cd)	APHA (23-4 Hillion)8080D,3118B	BDL(DL 0.002)	mg/l
14.	Copperas Co	APHA 23 rd Baltion 2017,8111 ^E	EDL(DL 0.002)	mg/l
15.	Zinc so Zu	APHA 23-4 E4. 2017,	BDL(DL 4.91)	mg/l

(Authorized Signatory)





Laboratory: Plot No. 82A, Sector - S, IMT Manesar, Gurugram - 1₂2051 (Haryana) ISO 9801 | ISO 14081 | ISO 45081

Test Report

Sample No.: VEL/SW/O1			Report No.: VEL/W/220225001		
S. No.	Parameter	Test-Method	Result	Unit	
16.	Nampanese as Ma	APRA 25-*Billion, 3111 B	BDE(DE-0.01)	ing/l	
17.	Arvenic (ns As)	APRA 23 ** Cáltion, 3030 D,3114 C.2017	BDL(BL 4.002)	ing/l	
16.	Solophum (na Se)	APHA 29-Baltion, 3114 C2017	BOL(BL 4.002)	ing/l	
16.	Nervey (as lig)	APHA 23-William, 2114 C.2017	BDL(BL 0.0005)	ing/l	
20.	Lond(as Pb)	APHA 23-Belition, 3630 D,3113 B.2017	BDL(BL 4.002)	Hig/L	
21.	Turbidity	APHA 25/48dition, 2130 B	5.0	NTO	
21.	Residual Pres Chierine	APEA 23-45/Minn, 3500 (I B	BBL(DL 0.15)	ing/	
20.	Cyanida ao CK	APILA 4500CH-D	BBL(DL 0.02)	mg/l	
24.	Colour	APHA 23*Sdition, 2120 B	BOL(BL 1.0)	Hazes	
25.	Odour	APHA 25-Edition, 2150 B	Agreeable	**	
26.	Tasks	APEA 23**Edition, 2160 B	Agreeable		
27.	Anionic Detergents as NBAS	APRA 23rd Bánhon, 2017, 8540 C	BOL(DL e.e1)	ing/	
21.	Phonelic Compounds	APRA 25*Edition, 5580 C	BBE(BL 0.0004)	ing/	
25.	BOD(S days at 27°C)	APHA 23-Saltion, 2017, \$210 C	523	ing/	
30.	CORP	APRA 23/44Mos, 2017, 5220 B	22.55	ing/l	
21.	Beren	APRA 29-William, 4500 C	BDL(BL 4.41)	ing/l	
82.	Our enium as Cr	APRIA 23*84,2017,31118	H9L(DL 0.002)	ing/	

Notes, \$200 Polesy Deportion Limit, \$200, Deportion Limit

(Checked By)

(Authorized Steament)





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Samule Number:

Sample Descriptions Sampling Location:

Sample Collected by

Sampling & Analysis Protocob

Propervations.

me & Address of Party:

VEL /5W /02

M/s thaban Power Limited Village-Barein, Gerakhpur, District-

Report No. Format Real VEL/W/3202150012 74741

Party Reference No.:

4200005298 21/02/2022

Period of Analytist Receipt Dubes

Reporting Datas

15-21/02/2022 15/02/2022

Tomer River Nr. Village - Pati Varden BuviroLab Representative

Sampling Dates Sampling Types Sample Quantity:

12/02/2022 Grab

Refrigerated IS-10500-2012

Sarface Water

20 Ur.

TEST PESULTS

S. 100.	Parameter	Text-Nethed	of market fair	Unit
1.	pH (ut 25 °C)	APRA 23-Edition, 4500-E- B	7.46	
2.	Total Disselved Selids	APRA 23-William, 2540 C	200.0	mg/l
3.	Total Suspended Selids	APHA 23"Ballion, 2540 D	4.0	mg/l
4.	Alkalishty as CaCOs	APRA 28-WARties, 2320 B	145.8	oug/i
8.	Total Hardness as CaCO:	AFRA 23-Waltion, 2540 C	216.4	mg/l
6.	Mitrate as NOs	IS 3025 (P-34) 1900:RA-2019	6.87	mg/l
7.	Chloride at Cl	APRA 25"Edition, 4540-CI-B	27.84	mg/l
8.	Subplicate set 504	AFEA 23/45dition, 4500 E	7.53	mg/l
9.	Calcium or Ca	APHA 23**Sdition, 3500 Ca B	26.46	mg/l
10.	Magnesium as Mg	APRA 23-Edition, 2340 B	\$.45	mg/l
11.	Fluoride as F	APHA 23 rd Belition, 2017, 4500-P-D	4.51	mg/l
11.	Iron as Pe	AFEA 23"E4,2017, 2500 Fe- B	6.11	mg/l
13.	Codesium (ut Cit)	APEA (234 B4Rion)3000D,3113B	#DL(DL #.002)	eng/i
14.	Copper as Cu	AFRA 23rd Edition 2017,3111B	#DL(DL 0.002)	mg/l
13.	Zinc as Zn	APHA 28** Bd. 2017,	#DL(DL 0.01)	mg/l

(Checked By)

(Authorized Signator)





Laboratory: Plot No. 82A, Sector - S, (MT Manesar, Gunugram - 122051 (Haryana) 850 9881 | ISO 14801 | ISO 45001

Test Report

Sample No.: YEL/5W/62			Report No.: VBL/W/220215001		
S. No.	Parameter	Test-Method	Result	Unit	
26.	Hanganaroas Ma	APRA 23=9600en, 3111 B	ED1(D1 4.01)	mg/l	
17.	Aronnie (na Az)	APHA 25-Wallion, 3030 D,3114 C.201	7 FDL(D1 0.002)	mg/S	
10.	Selenten (no Se)	AFEA 23*Edition, 3114 C.2017	EDL(D1 0.002)	mg/l	
29.	Mercany (as Hg)	APHA 23-48dition, 3114 C.2017	(EDL(D1-0.0005)	Hig/S	
16.	Lend(ne Ph)	APMA 23-E48600, 3030 D,3113 B.201	7 BBL(DL 0.002)	hig/l	
11.	Turbidity	AFRA 23 Mattion, 2130 S.	2.0	HTT	
77	Residuel Proc Chiorine	APRA 25-Stitlen, 8600 CLB	BOL(DL 0.15)	100/1	
23.	Cyanide as CH	APRA 4500GVD	MDE(DE 0.02)	mg/l	
24.	Colour	APRA 23-Walton, 2120 B	BDL(DL 1.0)	Hasen	
16.	Olour	APRA 23-44Mag, 2150 B	Agreeable	**	
26.	Taste	APRIA 25-42dition, 2140 B	Agreeable	**	
27.	Anionic Determents at NEAS	APRA 23-4 Edition, 2017, 5540 C	EDE(DE 0.05)	mg/l	
10.	Phonelic Compounds	APHA 23"Silition, 5530 C	EBF(Df 0'0404)	mg/l	
29.	900(3 days at 27°C)	APMA 28-William, 2017, 5210 C	4.32	wg/L	
30.	COD	AFRA 23"Sdition, 2017, \$220 B	24.6	mg/A	
11.	Baron	APRA 23-Baltion, 4500 C	BOL(DL 0.01)	mg/F	
32	Chromium at Cr	AFRA 29*94,2017,3111 B	EDL(DL 0.002)	mg/l	

Note: *RBL-Below Detection Limit, *DL-Detection Limit.

(Checked By)

(Authorized Signatury)

VII./470745774577

Winner, speedson, on its



Laboratory: Plot No. 82A, Sector - 5, BMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Plamber:

Sample Descriptions Sampling Location: Sample Collected by

Sampling & Analysis Protocols

Proper vettee:

Name & Address of Party

VEL /8W/03

M/e Jhabun Power Limited Village-Bursh, Gerskipper, District-

SeouLMP

Surface Water

Kala Nr. Village - Blasiki

Vardan EnviroLab Representative

Refrigerated

IS-10500-2017

Report No.

Format Na.:

Party Reference No.:

Reporting Dates Period of Analysis:

Receipt Poles

Sameling Bote: Sarapiting Types Sample Quantity: VEL/W/2202150013

7.87 01

4900005298 21/02/2022

15-21/02/2023 15/02/2022

11/02/2022

Grah 20 Ltr.

THEY RESULTS

l.Ho.	Personator, and Careful at 19	Test-Nethed	Batult V.	Unit
1.	pH (at 25 °C)	APRA 23 British, 4500-IP B	7.32	-
2	Yetal Dissolved Solids	APSA 23/50000, 2540 C	355.0	mig/t
8.	Total Suspended Solids	AFHA 23-%diston, 2540 B	20.5	rag/t
6.	Alicalishty as CaCOo	APRA 23-Whitien, 2320 B	193.1	mg/l
5.	Total Hardness as CaCOs	APEA 23/40/Rive, 2340 C	209.52	mig/t
6.	Mitrate as MOs	IS 9925 (P-34) 1948/RA.2019	7.17	mig/t
7.	Chileride as Cl	APSIA 23-*5ditSen, 4500-C> B	20.01	mag/f
5.	Salphate us SO ₁	AFHA 25-456islos, 4500 E	8.28	mg/l
5.	Calidam es Ca	APHA 23/Settlen, 3500 Ca B	42.2	mig/f
10.	Hagnesium ar Mg	APSA 23**SdRive, 2540 B	13.12	mag/f
11.	Phonido an V	APHA 23" Edition,2017, 4500-F-D	9.43	mig/f
12.	Iron as Po	APHA 23-484,2017, 2500 Fe-B	0.13	mig/f
13.	Christian (as-Cd)	APRA (284 Báblou)38380,3118B	BOL(BL 0.002)	rag/l
14.	Copporas Cn	APEA 23** Britton 2017,31118	HD4(84.0.007)	rag/l
10.	Zincas Zn	AFHA 29-184. 2017,	6.24	rag/t

(Checked By)

(Authorized Signatury)

www.wandam.co.in



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001

Test Report

Satespile Hour VEL/SW/08			Report No.s VEL/W/220215001	
S. No.	Parameter	Test-Method	Result	Unit
16.	Hanganese as Ma	APHA 23**Billion, 3111 B	0.12	mg/l
17.	Arnonic (no As)	APEA 23"Edition, 2030 B,3114 C.201	7 EDL(BL 0.002)	mg/l
16.	Subseitum (no As)	APHA 23*Edikk, 3114 C2017	BDL(BL 4.002)	mg/l
10.	Morenry (es lig)	APHA 29-Edition, 3114-C2017	EDL(BL 0.0006)	mg/l
20.	Load(as Pb)	APHA 23-Edition, 3030 D.3113 R.201	7 BDL(BL 4.00Z)	mg/l
21.	Turbidity	APHA 23*Gillou, 2120 B	8.8	MTO
22.	Residual Free Chlorine	APEA 23"Dillion, 3500 CI S	BBL(DL 0.15)	mg/l
28	Cyanide as CH	APEA 4500CN-D	PPL(DL 0.02)	mg/l
24.	Celiver	APHA 25-75@Hen, 2120 B	5.0	Hazon
25.	Odeur	APRA 23-Tallides, 2150 B	Agreeable	**
26.	Tnote	APHA 22**Sililan, 2160 B	Agreeable	
27.	Anionio Detergents as NBAS	APRA 23rd Billion, 2017, 5340 C	BOL(BL 0.05)	mg/l
26.	Phonolic Compounds	APRA 23-Talities, 5530 C	HDL(DL 0.0004)	mg/l
29.	BOD(3 days at 27°C)	APHA 23-45 (BNov., 2017, 5210 C	7.14	mg/l
30.	COD	APEA 23-401Rion, 2017, 5220 B	42.44	mg/l
SL.	Boron	APEA 23-84kton, 4500 C	BOL(BLO.01)	mg/L
32.	Chromium of Cr	APMA 22MS4_2017, 3111 S	BDL(DL 0.002)	mg/S

Note: "SDI-Below Detection Limit, "BL- Detection Limit.

(Checked By)

(Authorized Signatory)

V&L7E7177878818919

www.warden.co.ir



Laboratory; Plot No. 82A, Sector ~ 5, IMT Manesar, Gurugram ~ 122051 (Haryana). ISO 9001 | ISO 14001 | ISO 45001

Test Report

Samulo Hamber:

Samule Descriptions

Sameling Location:

Name & Address of Party:

YEL /SW/04

M/s Jhabun Power Limited

Villago-Barela,Gorokhpur, District-

Seanill

Report Hos Format Hos

7.8 F 01

Party Reference No.: Reporting Date: 4300005298 21/02/2022

VEL/W/2202150014

Period of Analysis: Surface Water Requist Date:

Streets Eiter

IS-10500-2012

100 Mtr. From cond

Receipt Date: Sumpling Date: 15-21/02/2022 15/02/2022 12/02/2022

Samula Callected by Yander En

Preservation: Sampling & Amilysis Protocol: Yarden EnviroLab Representative Refrigerated Sampling Type: Sample Quantity: Grab 2.0 Lan

THE PERSON IS

s, No.	Parameter	Test-Method	Republication	Child
1.	pH (nt25 °C)	APHA 23=45ditten, 4500-H+B	7.26	
2.	Total Disselved Subis	APRA 25-TARGOL 2540 C	295.0	mg/l
3.	Total Suspended Selids	APRA 23-Indition, 2544 D	29.6	mg/l
4	B00(3 days at 27°C)	APHA 23-6dition, 2017, 5210 C	13.5	mg/l
5.	000	APHA 29-Talaion, 2017, 5220 B	50.84	mg/l
6.	Sulpitate as 904	APRA 29-Watton, 4500 B	7.81	mg/l
7.	Lond(as Pb)	APHA 23**Sditton, 2636 0,3113 3,2617	BOL(BL 0.00Z)	mg/l
8.	Arnonic (se As)	APEA 23/4600m, 3030 D,3114 C.2017	BBL(DL 0.00Z)	mg/l
9.	Chrombon ## Cr	APHA 28/464,2017, 3111 B	BBL(DL 0,00Z)	mg/l
16.	Codeston (ar Cd)	APRA (23rd Edition)3430D,5113B	BDL(BL 0.002)	mg/l
11.	Morenry (as Hg)	APEA 23**Scition, B114 C2017	BBT(DT 0'0004)	mg/l
12.	Oil & Gronec	APHA 23~54,2017, 5520 B	2.2	36g/l

Note: "BDL-Below Betaction Limit, "BL- Detection Limit.

(Checked By)

(Authorized Signatory)





NOIDA TESTING LABORATORIES

(An ISO: 9001: 2015, 14001: 2015 & ISO 45001: 2018 & NABL Accredited Laboratory) MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB & HSPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

TEST CERTIFICATE

Sample Number:

NTL/LAB/010

Report No.:

W-110222-010

Name & Address of Party:

M/s [habua Power Ltd.

Party Reference No.:

NII.

Vill.-Barela, Gorakpur, Distt.-Seoni,

Report Date: Date of Mouitoring: 21/02/2022 11/02/2022

Madbya Pradesh

Receipt Date:

15/02/2022

Sample Doscription: Sample Collected by

Ground Water Level Monitoring

NTL Team

TEST RESULTS

S. No.	Location	Latitude & Longitude	Deptb (in Meter)
1.	Project Operation Gate	22°44′39″ N & 79°55′31″	1.8
2.	Village Barela	22°44'18" N & 79°55'08"	3.2
3.	Viliage Panarjbir	22°46'05" N & 79°55'22"	1.5
4.	Village Binaiki	22°43'26" N & 79°54'21"	2.9
5.	Village Durjanpur	22°45'06" N & 79°55'48"	5.7
6.	Village Guneri	22°42'16" N & 79°57'12"	5.8
7.	Village Dola	22°42'36" N & 79°54'48"	7.5
8.	Village Gorakhpur	22°44'39" N & 79°55'12"	4.6



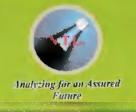


Laboratory: GT-20, Sector-117, Noida Gautam Budh Nagar - 201301

Branch Office: IP-2, Haridwar, Uttrakhand

Branch Office: Gayatri Nagar. Katgodam, Haldwani, Uttrakhand

E.: noida.laboratory@gmail.com, info@noidalabs.com W.: www. noidalabs.com



NOIDA TESTING LABORATORIES

A Covernment Annunced Testing Laboratory)

(An ISO: 9001: 2015, 14001: 2015 & ISO 45001: 2018 & NABL Accredited Laboratory)
MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB & HSPCB Recognized Laboratory

+91-9313611642 8510081921 7503031145 8527870572 7503031146 9999794369

TEST CERTIFICATE

Sample Number:

NTL/LAB/022

Report No.:

W-100921-022

Name & Address of Party:

M/s Jhabua Power Ltd.

Party Reference No.:

NIL

Vill.-Barela, Gorakpnr, Distt.-Seoui,

Report Date: Date of Monitoring: 23/09/2021 10/09/2021

Madhya Pradesh

Receipt Date:

15/09/2021

Sample Description: Sample Collected by **Ground Water Level Monitoring**

NTL Team

TEST RESDLTS

S. No.	Location	Latitude & Longitude	Depth (lo Meter)
1.	Project Operation Gate	22°44′39" N & 79°55′31"	1.6
2.	Village 8arela	22°44′18" N & 79°55′08"	3.2
3.	Village Panarjbir	22°46′05″ N & 79°55′22"	1.5
4.	Village Binaiki	22°43′26" N & 79°54′21"	2.9
5.	Village Durjanpur	22°45'06" N & 79°55'48"	5.9
6.	Village Guneri	22°42'16" N & 79°57'12"	5.8
7.	Village Doia	22°42′36" N & 79°54′48"	7.4
B.	Village Gorakbpur	22°44'39" N & 79°55'12"	4,4





Laboratory: GT-20, Sector-117, Noida Gautam Budh Nagar - 201301

Branch Office: IP-2, Haridwar, Uttrakhand

Branch Office: Gayatri Nagar. Katgodam, Haldwani, Uttrakhand

E.: noida.laboratory@gmail.com, info@noidalabs.com W.: www. noidalabs.com

Annexure -2

Recent Stack Monitoring Report



Laboratory; Plot No., 82 A, Sector - 5, (MT Manesar, Gurugram - 122 051 (Haryana) ISO 9001 (ISO 14001 (ISO 45001





Test Report

Sample Number: VEL/9/01

: M/s Jhabua Power Limited

Report No.

± VEL/S/2209251001

Name & Address of the Party

P.O. Altaria, Tehsil- Ghansore, Diett-Seoni, Madhya

Format No.

7.8 F-03

Pradesh

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

28/09/2022

Receipt Date

Padod of Analysis : 26/10/2022-30/09/2022

Sample Description

Stack Emission Monitoring

General Information

Sampling Location

: TPP-800 MW

Sample Cellected By

VEL Representative (Mr. Rejeah)

Date of Sampling

17/08/2022

Sampling duration (Minutes)

310

Stack attached to

TTP

Make of stack

MS

Diameter of atack(m)

: 7.26 Mtr.

Height of stack(m)

: 275.0 Mtr.

instrument calibration efetus

: Calibrated

Meteorological Condition

Clear Sky

Ambient Temperature - Ta (°C)

: 28.0

Temperature of Stack Gases - Ts (°C) Velocity of Stack Gases (m/sec.)

: 120 0

Flow ratu of PM (LPM)

: 23 12

Flow ratu of Gas (LPM)

: 31.0

Sampling condidon

: 2.0

leokinetic

Protogol used	: IS 11255 & EPA
S.No. Test Paremeters	Test Method

9. N o.	Test Paremeters	Test Method	Results	Units	Umits as per CPCB
1	Particulate Matter (as PM)	IS:11258 (P-1), Cravimetric Method, RA:2003	41.84	mg/Nm3	60 Q
2	Su)phur Dioddie (as SO2)	IS:11255 (P-2), Titrimetric Method RA:2003	688.17	mg/Nm3	200.0
3	Oxide of Nitrogen (as NOX)	IS:11255 (P-7), Colorimetric Method, RA:2012	195.02	mg/Nm3	450.0
4	Mercury (as Hg)	VEL/ENV/STP/144, leaue No.01, Issue Date - 61/H1/2021	*BLQ[**LOQ-0.00	mg/Nm3	0.03

[&]quot;BLQ-Below Limit of Quantifiaction,""LOQ-Limit of Quantification.

"End of Report"

ck bool SODH SHEKHAWAT DY. TECHNICAL MANAGER

Page No. 1/1

www.verden.co.in





Laboratory: Plot No. 82 A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/S/02

Name & Address of the Party

Mvs Jhahua Power Limited.

P.O. Attaria, Tehsil- Ghansore, Distt-Seogl, Madhya

Pradesh.

Report No.

: VEL/S/2209261002

Format No

7.8 F-03

Party Reference No :: 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

: 28/09/2022-30/09/2022

Receipt Date

28/09/2022

Sample Description

Stack Emission Monitoring

General Information

Sampling Location

DG Set Area

Sample Collected By

VEL Representative (Mr. Rajesh)

Cats of Sampling

15/09/2022

Sampling duration (Minutes)

48.0

Stack attached to

DG Set No.1 (1500 KVA)

Make of stack

Ciameter of stack(m)

0.46 Mtr.

Neight of stack(m)

30.0 Mir.

Instrument calibration status

: Calibrated : Clear Sky

Meteorological Cendition Ambient Temperature - Ta (*C)

Temperature of Stack Gases - Ts (°C)

: 160.0

Velocity of Stack Gases (m/sec.) Flow rate of PM (LPM)

: 16.74

Flow rate of Gas (LPM)

: 18.0

Sampling condition

: 20 taokinetic

Protocol used

: IS 11255 & EPA

S.No.	Test Parameters	Test Method	Resulte	Units	Limita as per CPCB
1	PM (at 15 % O2 Correction)	IS:11256 (P-1), Gravimetric Method, RA:2003	51.41	mg#Im3	75.0
2	NOX (at 15 % 02 Correction)	IS:(1255 (P-7), Colorimetric Method RA:2012	196.99	ppmv	710.0

End of Report



SUBODH SHEKHAWAT DY, TECHNICAL MANAGER



Page No. 1/1

www.vardan.co.in

Ph: 0124-4343750/752/753, 9810355369, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in



Laboratory: Plot No. 82A, Sector - 5, IMT Manes at, Gurugram - 1 22051 (Haryana) (50 9001 | ISO 140g1 | ISO 45001





Test Report

Sample Number: VEL/S/03

Name & Address of the Party : M/s Jhehua Power Limited

P.O. Attana, Tehsil-Ghansore, Disht-Seoni, Madhya

Report No.

VEL/8/220926 r003

Format No

7 8 F-03

Forty Reference No : 4300005298

Reporting Date

: 30/09/2022

Period of Analysis : 26/10/2022-30/09/2022

Receipt Date

: 26/09/2022

Sample Description

Stack Emission Monitoring

General Information

Sampling Location

DG Set Area

Sample Collected By

VEL Representative (Mr. Rajesh)

Date of Sampling

18/09/2022

Sampling duration (Minutes)

: 48.0

Stack attached to

DG Set No.2 (1500 KVA)

Make of stack

Diameter of stack(m)

: 0.45 Mm.

Neight of stack(m) Instrument calibration status 20.0 Mtr.

Metaprological Condition

: Calibrated : Clear Sky

Ambient Temperature - Ta (*C)

: 28.0

Temperature of Stack Gases - Ta (*C) : 172.0

Velocity of Stack Gasea (m/sec.)

: 18.11

Flow rate of PM (LPM)

: 18.0

Flow rate of Gas (LPM)

Sampling condition

: 20 : fsokihetic

Protogol used

: IS 11255 & EPA

B.No.	Tod Parameters	Test Method	Results	Onits	Limits as per CPC8
1	PM (at 15 % O2 Correction)	IS:11265 (P-1), Gravimetric Method, RA:2003	46.96	-SmMgm	73.0
2	NOX (nt 15 % O2 Correction)	IS:11255 (P-7), Colorimetric Stathod, RA:2012	188.86	ppmv	710.0

"End of Report"



SUBODH SHEKHAWAT DY. TECHNICAL MANAGER



Pege No. 1/1

www.vardan.co.in



Annexure -3

Analysis Report of Ash pond effluent



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





TC-8299

Test Report

Sample Number: VELWW/04

Name & Address of the Party : M/s Jhabua Power Limited.

P.O. Altaria, Tehali- Ghansere, Disti-Seoni, Madhya

Pradeah.

Report No.

: VEL/MM/2209281004

Formal No ; 7.8 F-03

Party Reference No ; 4300005288

Reporting Outs ; 03/10/2022

Period of Analysis ; 26/09/2022-03/10/2022

Receipt Data : 26/09/2022 Sampling Date : 16/09/2022

Sampling Quantity : 2.0 Ltrs.
Sampling Type : Gren

Sample Description

: Waste Water

Le cation

: Ash Fend Effluent

Sample Collected By

: VEL Representative (Mr. Rajesh)

Environmental Condition

Sempling and Analysis

: APHA & IS

1 OK

Protocol

S.No.	Test Paremeters	Test Method	Result	Onlt
1	рН	APHA 4500 H+B Electrometric Method:2017	7.35	
2	Total Suspended Solids, max.	APHA 2540 D Gravimetric Method	32.00	m5/j
3	Oli & Gresse, Max.	APHA 5520 B Partition Gravimetric Method:2017	0.40	трЛ
4	Lead (as Pb)	APHA 3111 B Direct Air Acetylens FLame Method: 2017	"BLQ(""LOD-0.002)	mg/l
5	Tatal Chromiem (as Cr) max.	APHA 3111 B Direct Air Acetylane FLama Method: 2017	*BLQ(**LOQ-0.002)	mg/l
6	Areenic (as As)	APHA 3114 B: 2017	*BLQ(**LOQ-0.005)	mg#
7	Moreury (as Hg)	APHA 3112 B:2017	"BLQ("LOQ-0.005)	mg/l

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

"End of Report"





Page No. 1/1

ni,oo,naigian,co,in

Annexure -4

Structural Adequacy report of Ash Dyke certified by IIT, Roorkee.



Dr. P.K. GARG

Ph.D (Bristol U.K) FIE.FIRRS.FIS.BGS.FINCA.FSIS MIVT MIAB.MISG.ISTE.MISRS.MISET

Pro fees &

भारतीय प्रौद्योगिकी संस्थान रुड़की

(पूर्व रुद्धकी विश्वविद्यालय) जनपद अभियांत्रिकी विभाग रुद्धकी — 247 687 चत्त्वशख्य भारत

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE

(Formerly University of Roorkee)

DEPARTMENT OF CIVIL ENGINEERING

ROORKEE - 247667, UTTRAKHAND, ROORKEE

Fax: +91-1992-279560,285442, Tel : +91-1992-285462 O),275080,285026(R)

Email: gargpfca@ittr.omet.in

Date: 04,03,2020

Certification of Report

Ref-No. sGPL/NOC/19-20/@20

Corresponding to the Site: Jhabua Power Limited

Address:

Village -Barela, Tehsil-Ghansore

District -Seoni,

Madhya Pradesh

PiN - 480997

A team of M/s Spatial Geotech Pvt. Ltd. under my coordinatipo and supervision, has inspected and gone through the factory premises of Jhabua Power Ltd. located at the above mentioned address physically and has verified the structure, its design and durability as well as strength of the structure with reference to the established norms. We have found, on completion of the due verification and inspection, that the ash dykes are stable, healthy and accordingly possibilities of any breach is negligible.

Ash Dyke Design Standards

A comparative statement of design standards of ash pond and its dyke and status of the same at site is given in table below.

Site Status	Remarks
+	0
have the copacity to store ash	Nil . CD
	Site Status have the copacity to store ash

Sale of the state of the state

Store ash for 5 years	for the operation period of the plant	
Ralsing will be in stage of 3m	Initial beight is 5m, raising plan is on 3m stages	5m beight enabling more volume banding
Starter dyke is with earthen embankment extracted from ash pond	Starter dyke is made out of earthen embankment	Fly ash is not utilized for construction
Ultimate capacity is for 25 years	Capacity planned for entira life span of plant	NÜ
Top surface of the dyke is with earth 0.3m	Top surface is with earth and small diameter rock which enable movement of yebicle	fly ash is not utilized for construction
FRL is 1.5m below dyke top at all stages	1.5m free space is plannod at all stages of filling	Nil
Top width 6.0m	Width is 6m maintainea of which 4m pocupied by road	Nil
Dyke upstreem slope		
11.5cm brick layer	Stone pitching	This will be structurally more stable
5cm sand cushion	Engineering sand material is used	Nil
750 micro m HDPE	250 micron HDPE used, along with stone pitching	This will give more stability and prevent leaching
Stope 2H: 1V	Slopa 2H : 1V	Nil
Bottom of the pond		
50 cm sand	Sand cusbion is given	NII
500 mlero m HDP€	250 micran HDPE used	Supported with additional engineering soil layer

SEA SPART SERVICE THE LOCAL CONTROL OF THE SERVICE SER

5 cm concrete panels of 1,5 m × 1.2 m	Stene pitching is mere stable	Nil
A reck toe of 75cm using graded stones of 100 te 400mm over 15cm sand graded filter	Rock toe provided	Facilitate water recharge and prevent inundadon of outside area
Slope 2.25H : 1V with berm 1.5m with 2H : 1V	1.5H : 1V provided	Nil
50 m wide green belt	50 to 100m thick vegetation cover provided	Native trees used for vegetating the area
Steel hridge	Provided	Nil
Ash pond stability		
Horizontal seismic coefficient	Designs are made in accordance with seismic coefficient 1.5	NII

Thanking You, Yours sincerely

(Dr. P.K. Garg)

Annexure -5

Treated sewage analysis report



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number : VELWW/03

Name & Address of the Party : M/s Jhabus Power Limited.

P.O. Atlerie, Tehall- Ghansore, Diett-Seoni, Madhya.

Predesh.

: Waate Weler

: Treaged Sewage Water

: VEL Representative (Mr. Rajean)

Report No.

: VEUWW/2209261003

Format No.

- 7.8 F-03

Party Rafarence No.

: 4300006208

Reporting Date Period of Analysis : 03/10/2022

: 28/09/2022-03/10/2022

Receipt Date

: 28/09/2022

Sampling Date

: 16/09/2022

Sampling Type

Sempling Quantity : 2.0 Lins. 1 Grab

Environmental Condition

Parameter Required

Sample Opliected By

Sample Description

Location

: As per work order

Analysis Protocol

: APHA &1S

9.No.	Test Parameters	Test Method	Result	Unit	Limits as Per EPA (ScitsVI)		
					ipland Surface Water	Public Sewers	Land for irrigation
1	PH	APHA 4500 H+B Electrometric Method:2017	7.14	-	6.5 - 9.8	6.5 - 8.0	5.5 - 9.0
2	Total Suspenderi Solide, max.	APHA 2546 D Gravimetric Method	12,00	тел	100.0	685,0	200.6
3	Aremopical Hitrogen (as N) max.	49 3025 (Parl -34) Titrimetric Method, RA:2017	4.79	mg/t	60.0	0.00	-
4	7otal Kjaledahi Mitrogen (as NH3) max.	18 3026 (Part -34) Kjeldhal Methnd, RA:2009	1.80	mgfi	100.0		-
5	BOD (5 days @ 20°C) max.	APHA 5210 C Ultimate BOD Test:2017	18.37	ng/l	30.0	350.0	100.0
6	COD, Mex.	APHA 5220 D Opin Reflux Method:2017	69.36	mg/l	250.0	-	-
7	Phosphate (as PO4) max.	APHA 4500 PC:2017	BLQ(LOG-0.	mg/I	žė.	-	-





Page No. 1/2

www.yardan.co.in





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





(Approved By)

Test Report

Semple Number: VELAWW/03

Busset No.

VEL/WW/2209261003

	TELEFICIO				-		
S.No.	Test Parameters	Test Method	Result	Unit	Limits	as Per EPA (8	icheVT)
					infend Surface Water	Public Sewera	Land for Irrigation
8	Fascal coliform	13 1622:1991	50	MPN/10 Oml	7	-	-

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

""End of Report"

(Checked By)

Dy. Technical Manager-Micro

Page No. 2/2

Annexure -6

Ground Water Analysis Report



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number :

VEL/GW/01

Name & Address of the Party

M/s Jhabus Power Umited.

: VEL Representative (Mr. Rajesh)

P.O. Atlaria, Tehsil- Ghansore, Diatt-Seoni, Madhya

Pradesh.

: Ground Water

: Project Sile

Report No.

VELAV/2209261010

Format No.

7.8 F 03

Party Reference No : 4300005298

Reporting Oats

: 29/09/2022

Period of Analysis

1 26/09/2022-29/09/2022

Receipt Oats

: 28/09/2022

Sampling Date

: 18/09/2022

Sampling Quantity

1.2 Ltr.+2 Ltr.+1 Ltr.+250 ml

Sampling Type

: Grab

Sample Collected by

Sample Description

Environmental Condition

Sampling and Analysia

: OK

: APHA & IS

Protocol

Lecation

3.No.	, Parameter	Test Mathod	Result	Unit	Requirement as per #8:10500-2012	
					Acceptable Limit	Permissiole Limits
i	pH (at 25 °C)	APHA 4500 H+8 Electrometric Method:2017	7.40		6.6-8.6	No relaxation
2	Colour	APHA 2120 B Visual Comparison Method; 2017	BLQ(LOQ-1.0)	Hezen Unit	8	15
3	Turbidity	APHA 2130 B Nephelemetric Method:2017	BLQ(LOQ-1.0)	NTU	1	5
4	Odeur	APHA 2130 B Threshold Odour Method:2017	Agreeable	•	Agreeable	Agreeable
5	Tasta	APHA 2180 B Flavor Threshold Test Method: 2017	Agreeable		Agreeable	Agreeable
5	Total Hardness (se CaCO3)	APHA 2340 C ED7A Titrimetric Method: 2017	187.26	mg/l	200	600
7	Calcient (se Ca)	APHA 2500 Ca B EDTA Titrimetric Method: 2017	67.89	mg/l	75	200
2	Total Alkalinity (es CeCO3)	APHA 2320 B Titration Method:2017	143.37	прЛ	200	600
B	Chloride (as Cl)	APHA 4500 CI B Argentometric Method: 2017	63.12	mg/l	250	1000
10	Residual Free Chlorind (RFC)	APHA 3500 CI B (edemetric Method:2017	BLQ(L00-0.1 0)	mgit	0.2	1
11	Cyanide (sa CN)	APHA 4600 CN €	BLQ(L0Q-0.0 2)	MgM	0,05	No.relatatien
12	Magnesium (sa Mg)	APHA 3500 Mg B Calculation Method:2017	10,33	mgil	30	100
13	Total Dissolved Solids	APHA 2540 C Gravimetrio Method:2017	325,00	MgM	000	2000
14	Sulphate (as 904)	APHA 4800 E Turbidimetric Methori:2017	31.93	mg/l	200	400



R (Ph:0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number :	VEL/3W/01	Report No.	/EL/W/2209281018

9.No.	Parameter	Test Mathod	Result	Onlt	Requirement as per IS:10600-2012	
					Acceptable Limit	Permissible Limits
15	Fluoride (as F)	APHA 4500 P D SPADNS Method:201T	0.58	mg/l	1,0.	1.5
18	Nitrate (as NO3)	19:3025 (P-34), Chromotropic Methed	8.48	mg/l	48	No relaxation
1T	fron (as Fe)	APHA, 4600 H	BLQ (LOQ-0.01)	mg/l	1.0	No relaxation
18	Aluminium (as Al)	APHA, 3111 D	BLQ (LOQ-0,002)	mg/l	0.03	0.2
19	Boron (as B)	APHA 4590 B	BLQ (LOQ-0.01)	mg/l	0.6	2.4
20	Phenolic Compounds (as c6H5OH)	APHA 5530 C Chloroform Extraction Method;2017	BLQ(LOQ-0.0 004)	mg/l	0.001	0.002
21	Anionic Delergents (as MBAS)	APHA 5540 C MBAS Method	BLQ(LOQ-0.0 5)	mg/l	0.2	1.0
22	Zino (es Zn)	APHA 3111 B	BLQ (LOQ-0.81)	mg/l	6	15
23	Total Chromium (as Cr)	АРНА, 3111 В	B),Q (LOQ-0.002)	mg#	0.06	No relaxation
24	Copper (as Cu)	APHA, 3111 B	BLQ (LOQ-8.002)	mg/l	0.06	1.5
25	Mengenese (as Mn)	APHA, 0111 B	BLQ (LOQ-0.01)	mg/l	0.1	0.3
25	Cadmidm (as Cd)	APHA, 3111 B	BLQ (LOQ-0.032)	mg/l	0.003	No relatation
27	Lead (as Fb)	APHA, 3111 B	BLQ (LOQ-0.002)	трЛ	6.01	No reimatien
25	Selenium (se Se)	AFHA, 3114 B	BLQ (LOQ-0.001)	mg/l	0.01	No relexation
29	Total Arsenic (se As)	APHA, 3114 B	BLQ (LQQ-0.006)	mg/l	0.01	No relaxation
30	Mercury (as Hg)	APHA, 3112 B	BLQ (LOQ-0.8005)	mg/l	0.001	No relaxation

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

End of Report



Page No. 2/2



www.vardan.co.in



[®]Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manes at, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number : VEL/GW/01

Name & Address of the Party

M/s Jhebue Power Limited.

VEL Representative (Mr. Rajecti)

P.O- Atlanta, Tehsil- Ghansora, Disti-Saorii, Madhya

Pradesh.

: Greund Water

: Froject Site

Report No.

: VEL/W/2209261010/N

Format No.

7.8 F 03

Party Reference No : 4300005228

: 29/09/2022

Reporting Date Period of Analysia

Receipt Date

: 26/09/2022-29/09/2022

: 28/09/2022

Sampting Data

: 15/08/2022

Sampling Quantity

: 2 Ltr.+2 Ltr.+1 Ltr.+250 ml

Sampling Type

: Grab

Sample Collected by

Sample Description

Environmental Condition

: OK

Sampling and Addiyate

: APHA 8.13

Location

S.No.	Primmeter	Test Mathod	Result	Unit	Requirement as per 18:10500-2012	
					Acceptable Limit	Permiseible Limits
Micro	binlogicat Analysis:			-		
1	E.coli	18:15186; 2016	Absent	/100ml	Shalt not be detectable to any 100 nti sample	
2	Total Cettform	18:16186; 2016	Absent	/100mi	Shall not be detectable in any 100 ml sample	

***End of Report**

(Checked By)

Dy. Technical Manager-Micro

09 3-6 2

(Ap proved By)

Page No. 1/1

www.vardan.co.in





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEt /GW/02

Name & Address of the Party

Mrs Jhabua Power Limited.

: VEL Representative (Mr. Rejeah)

P.O. Atlaria, Tehsil- Ghansors, Distf-Seoni, Madhya

Pradesh.

: Ground Water

: Village-Barela

Report No.

; VELW/2209261011

Format No

2 7.8 F 03

Party Reference No 🚦 4300005298

Reporting Date

: 28/09/2022

Period of Ahalysis

: 28/09/2022-28/09/2022

Receipt Date

: 28/09/2022

Sampling Date

Sampling Quantity

: 16/09/2022

Sampling Type

2 Ltr.+2 Ltr.+1 Ltr.+260 ml : Grab

Environmental Condition

Semple Description

Sample Collected by

Sampling and Analysis

: OK : APHA & IS

Protocol

Location

S.No.	Parameter	Test Mathod	Result	Unit	Requirement as per IS:10600-2012	
					Acceptable Limit	Permissible Umits
1	ρH (at 25 °C)	APHA 4500 H+B Electrometric	T.15	-	8.5-8.6	No relaxation
2	Colour	Method:201T APHA 2120 B Visual Companion Method:201T	BLQ(LOQ-1.0)	Hazen	6	15
3	Turbidity	APHA 2139 B Nepusiometrio Nethed:201T	BLQ(L0Q-1.0)	NTU	1	5
4	Odour	APHA 2150 B Threshold Odour Method:2017	Agresable		Agreeable	Agreeable
5	Taste	APHA 2150 B Elevor Threshold Test Method:2817	Agracabée	1.1	Agreeable	Agreeable
6	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetrie Method:2017	112.36	ng/l	200	600
Т	Calcium (ac Ca)	APMA 3500 Ca B EDTA Titrimetric Methold: 2017	25.73	mg/l	73	200
D	Total Alkatinity (as CaCO3)	APHA 2320 B Titration Method:2017	92.60	mg/l	200	600
8	Chloride (as Cl)	APHA 4800 CI B Argentometric Method:201T	46.68	mg/i	250	1000
10	Residual Free ChioFine (RFC)	APHA 3500 CI B lodometria Method:2017	BLQ(LGQ-0.1 5)	mg/l	8.2	t
11	Cyanide (sa CN)	APHA 4500 CN E	BLQ(LCQ-0.0 2)	mgrl	0.05	No.relexation
12	Magnesium (as Mg)	APHA 3600 Mg B Calculation Method:2017	11.67	Ngm	30	100
13	Total Dissolved Snilds	APHA 2540 C Graylmetric Method:2017	245,90	mg#	500	2080
14	Surpriste (as 904)	APHA 4800 E Turbidimetric Method:2017	26.57	mg/l	200	400

vge No./1/2

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/GW/02 Report No. VEL/AW2209261011

9.No.	Parameter	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limits
15	Fluoride (as F)	APHA 4600 F C SPADNS Mathod:2017	0.53	Ngm	1.0	1.5
16	Mitrate (se NO3)	19:3025 (P-S4), Chromotropic Method	5.98	Ngm	45	No relexation
17	tron (as Fe)	APHA, 4600 H	(LOQ-0.01)	mgil	1.0	No relexation
18	Aluminium (as Al)	APHA, \$111 D	BLQ (LOQ-0.002)	mg/l	0.03	0.2
19	Boron (se B)	APHA, 4500 B	BLQ (L0Q-0.01)	mg/l	0.6	2.4
20	Phenolic Comnounde (as C8H5OH)	APHA 8830 C Chloroform Extraction Method:2017	BLQ(LOQ-0.0 004)	mg/l	0.001	0.002
21	Antonic Cetergents (se MBAS)	APHA 5540 C MBAS Mathod	8LQ(LOQ-0.0 6)	mgil	0.2	1.0
22	Zinc (sá Zn)	APHA, 3111 B	(LOQ-0 01)	mgři		16
23	Total Chromium (22 Cr)	APHA, 3111 B	BLQ (LOQ-0.002)	Ngm	0.06	No relaxation
24	Copper (at Cu)	APHA, 3111 B	SLQ (LOQ-0,002)	Ngm	0.06	1.0
26	Mangareas (as Mn)	APHA, 3111 B	BLQ (LOQ-8.01)	Nem	0.1	6.0
28	Cadmium (as Cd)	APHA, 3(11 B	BLQ {L0Q-0.002)	mgfl	0.003	No relexation
27	Lead (as Pb)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	6.01	Nu relaxation
26	Selsnium (as Se)	APHA, 3114 B	BLQ (LOQ-0.001)	Ngm	0.01	No relaxation
20	Trital Arsenio (as As)	APHA, \$114 B	BLQ (LOQ-0.005)	Mg/l	0.01	Nn rélezation
30	Mercury (as Hg)	APHA, 3112 B	BLQ (LQQ-0.0005)	mgil	0.001	No relexation

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

End of Report



Page No. 2/2



www.vardan.co.in



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/GW/02

Name & Address of the Party

: M/a Jhabua Power Limited.

: VEL Representative (Mr. Rajesh)

P.O- Atlaria, Tehall- Ghansora, Diatt-Seoni, Madhya

Predesh.

: Ground Water

: Village-Bareta

Report No.

VELAW/2200281011/N

Format No.

: 7.8 F 03

Party Reference No : 4300005296

Reporting Date

1 29/09/2022

Period of Analysia

: 28/09/2022-29/09/2022

Receipt Date

: 26/09/2022

Sampling Date

: 15/09/2022

Sampling Quantity

\$ 2 Ltr.+2 Ltr.+1 Ltr.+250 mf

Sampling Type

Environmental Condition

Sampling and Analysis

: OK

Sample Description

Sample Opliected by

Location

: APHA & IS

9.No.	Perameter	Test Method	Result	Unit	Requirement as per IS;10600-2012	
					Acceptable Limit	Permissible Limite
Micro	biological Analysis:			-		
1	Ecoli	IS:15165; 2016	Absent	/100ml	Shall not be detectable in any 100 ml sample	
2	Total Coliform	IS:15186; 2016	Absent	/100ml	Shall not be detectable in any 100 mt eample	-

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

End of Report

(Checked By)

SATYA DEV Dy. Technical Manager-Micro (Approved By)

Page No. 1/1

www.vardan.co.in





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number : VEL/GW/05

Name & Address of the Party

M/s Jhabua Power Limited.

: VEL Represents;ive (Mr. Rajesh)

P.O- Atteria, Tehali- Ghansora, Distt-Seoni, Madhya

Predesh.

: Ground Water

: Village-Panarjhir

Report No.

VEL/W/2200281812

Format No. Party Reference No. : 4300005296

7.8 F 03

Reporting Date

Period of Analysis

: 30/09/2022

: 26/09/2022-30/09/2022

Receipt Date

: 26/08/2022

Sampting Date

: 15/09/2822

Sampling Quantity

2 Un+2 Un+1 Us+ 250 mi

Sampling Type

: Grab

Sample Collected by

Sample Description

Environmental Condition

: OK

Sampling and Analysis

: APHA & IS

ь				h.
г	PQ!	œ	i Cilio	

Location

S.No.	Parameter	Test Method	Result	Unit	Requirement as per I8:10500-2012	
					Acceptable Limit	Permisalpia Limita
1	pH (st 25 °C)	APHA 4500 H+B Electrometric	7.20		6.6-8.6	No relexation
		Method:2017				
2	Cplour	APHA 2120 B Visual Comparison Method:2017	BLQ(L0Q-1.0)	Hazen Unit	D	15
3	Turbidity	APHA 2130 B Nephelometric Method: 2017	BLQ(LOQ-1.6)	NTU	1	Б
4	Odeur	APHA 2160 B Threshold Odour Method: 2017	Agreeable	*	Agreeable	Agreeable
Б	Tarte	APNA 2160 B Flavor Threshold Test Method:2017	Agrecable	*.	Agreshble	Agreeable
Q	Total Herdiness (ee CaCQ3)	APHA 2340 C EDTA Titrimetric Method:2017	123.05	mg/l	200	800
7	Calcium (as Cal	APHA 3500 Ca B EDTA Titrimetria Method:2017	38.69	mg/l	75	250
8	Total Alkalinity (as CaCO3)	APHA 2320 B Titration Method:2017	120.25	mg/l	200	600
9	Chiedde (as Ci)	APHA 4600 CI B Argentometric Method: 2017	87,99	mg/l	250	1600
10	Residua) Free Cinorine (RFC)	APHA 3600 CI B todometria Method:2017	BLQ(L0Q-0.1 6)	mgrl	6.2	1
11	Cyanide (se CN)	APHA 4500 CN E	BLQ(L0Q-0.0 2)	mg/l	0.05	No relexation
12	Magnesium (45 Mg)	APNA 4500 Mg B Calculation Method:2017	6.44	mg/l	30	100.
13	Total Dissolved Solids	APHA 2540 C Gravimetric Method:2017	282.00	mg/l	500	2000
14	Sulphate (as SO4)	APHA 4500 E Turbidimetrio Method:2017	42.02	ing/l	200	400

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in



Laboratory: Plot No. 82A, Sector - S, IMT Manesar, Gurugram - 12₂051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number :	VEL/GW/05	Report No.	: VEL/W/2209281012
SMILDER HERITOGI.	AET GAMAD	report no.	: VECIPALSSO1015

S.No.	Parameter	Test Method	Result	Unit		ment as per 500-2012
I					Acceptable Limit	Parmissible Limits
15	Fluoride (88 F)	APHA 4600 F D SFADNS Method:2017	0.51	mgfl	1.0.	1.5
16	Nitrate (se NO3)	iS:3826 (P-34), Chromotropic Method	3.43	mgil	45	No relaxation
17	tron (sa Fe)	AFHA, 4800 H	BLQ (LOQ-0.01)	hgm	1.0	No releastion
18	Aluminium (sa Al)	APHA, 3111 D	BLQ (LOQ-0.002)	mg/l	0.03	0.2
19	Boron (as B)	APHA, 4800 D	BLQ (LOQ-0.01)	тоЛ	0.6	2.4
20	Phenolic Compounds (se C6H5OH)	AFHA 5839 C Chloroform Extraction Method.2017	BLQ(LOQ-0.0 004)	mg/l	0.001	0.002
21	Antonic Ostergents (as MBAS)	APHA 5640 C MBAS Method	BLQ(LQQ-0.0 5)	mg/l	0.2	1.0
22	Zinc (as Zn)	APHA, 3111 B	BLQ (LOQ-0.01)	mgf	5	15
23	Total Chromium (se Cr)	APHA, 3111 B	BLQ (LOQ-0.012)	mgfl	0.58	No relaxation
24	Copper (as Cut	APHA, 3111 8	BLQ (LOQ-0.002)	mg/l	.0.05	1.5
24	Manganese (se Mh)	APHA, 3111 8	BLQ (LQQ-0.01)	пgЛ	0.1	0.3
26	Cadmium (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mgA	0.005	Ne rélaxation
27	Leed (as Pb)	APHA, 3111 B	BLQ (LOQ-0,002)	mgfl	0.01	tie relaxation
26	Selenium (es Se)	APHA, 3114 B	BLQ (LQQ-0.001)	mg/l	0.01	Ne relexation
29	Total Arsenic (se Ac)	APHA, 3114 B	(LOQ-0,005)	mg/l	0.01	No relaxation
20	Marcury (se Hg)	APHA, 3112 B	BLQ (LOQ-0 0005)	mg/l	0.001	No relaxation

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

End of Report



Page No. 2/2

www.vardan.co.in





Laboratory: Plot No. 82 A, Sector - S, IMT Manesar, Gurugram - 122 051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/GW/05

Sample Description

Name & Address of the Farty

Me Jhahua Power Limited.

: VEL Representative (Mr. Dajesh)

P.O. Attaria, Tehsil- Ghensore, Distt-Seoni, Madhya

: Ground Water

: Village- Fenerjhir

Report No.

: VELAW/2209281012/N

Format No

. 7.6 F 03

Farty Reference No.: 4300006298

Reporting Date

: 30/09/2022

Parlon of Analysis

: 30/09/2022-30/09/2022

Receipt Date

: 30/09/2022

; [5/09/2022

Sampting Ceta Sampling Quantity

2 2 Ltr.+2 Ltr. +1 Ltr.+ 250 ml

Sampting Type

: Gmb

gemple Collected by Environmental Condition

Sampling and Analysis

: APHA \$48

Location

\$.No.	Farameter	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limits
Micro	obiological Analysis:					
1	Ecoli	IB:15185: 2018	Abseni	/100ml	Shall not be detectable in any 100 mit sample	1
2	Total Coliforn	IS:16185: 2016	Absent	/100ml	Shall not be detectable in any 100 mit eample	•

End of Report

(Checked By)

SATYA DEV

Dy. Technical Manager-Micro

(Approved By)

Page No. 1/1

www.vardan.co.in





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number : VEL/GW/06

Name & Address of the Party 1: M/s Jhabus Power Limited.

: Ground Water

: Village-Binatki

P.O. Attaria, Tehsil- Ghansore, Distt-Seonl, Madhya

Pradesh.

Report No.

: VELAW/2209261013

Format No.

7.8 F 03

Party Raferenca No :: 4300005295

Reporting Date

: 30/09/2022

Period of Analysis

: 28/68/2022-30/09/2622

Receipt Date

: 28/08/2022

Sampting Date

1 15/09/2022

Sampling Quantity

3 2Ltr.+2 Ur.+1 Lh. +250 mt

Sampling Type

: Graft

Sample Collected by Environmental Condidon

Sample Description

: VEL Representative (Mr. Rajech) : OK

Sampling and Analysis

: APHA 8 IS

Protocol

Location

S.No.	Parameter	Test Mathnd	Result	Unit		ment as par 500-2012	
					Acceptable Limit	Permissible Limits	
1	pH (at 25 °C)	APHA 4500 H+B Electrometric	7.46	4	6.5-8.6	No relaxation	
2	Calqur	Method:2017 APHA 2120 B Vioual Comparison Method:2017	BLQ(LOQ-1.0)	Hazen Unit	6	16	
3	Turbloity	APHA 2130 B Nephelometric Method:2017	BLQ(LQQ-1.0)	NTU	1	6	
4	Gdour	APHA 2150 B Threshold Odour Method: 2017	Agrecable		Agreeable	Agreeable	
5	Taste	APHA 2160 B Flavor Thresholo Test Method:2017	Agreeabla	*	Agreeaple	Agreeabls	
5	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetrio Metherb201T	171.20	mg/l	200	600	
7	Calctura (as Co)	APHA 3500 Ca B BDTA Titrimetric Method:2017	53.60	mgA	76	200	
B	Total Alkalinity (se CaCO3)	APHA 2320 B Titration Method:201T	152.62	mgf	200	600	
9	Chloride (as Ci)	APHA 4500 CI B Argentometric Method:2017	59.27	mg/l	260	1000	
10	Residual Free Chlorine (RFC)	APHA 3500 Ci S lodometrio Method:2017	ELQ(LOQ-0.1 6)	mgA	0.2	7	
11	Cyanida (es CN)	APHA 4500 CN E	BLQ(LOQ-0.0 2)	mg/l	0.06	No ndaxation	
12	Magricalum (sa Mg)	APHA 3500 Mg B Calculation Method:2017	9.03	mg/l	30	130	
13	Total Cissolved Solids	APHA 2548 C Cravimetric Method:201T	302.03	mgfl	400	2000	
14	Sulphate (as 804)	APHA 4500 E Tuthidimetric Method:201T	31.93	mgfl	205	4DD	

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardan.co.in. bd@vardan.co.in



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

ampie	Number: VEL/GVW08		Report No.		; VEL/W/2209	
3.No.	Parameter	Test Mathort	Result	Unit	Réquirement as per IS:10500-2012	
					Acceptable Limit	Pérmissible Limits
15	Fluoride (at F)	APHA 4500 F.D SFADNS Method:2017	0.63	mg/l	1.0	1.5
15	Mitrate (se NO3)	IS:3025 (P-34), Chromotropic Method	7.82	mg/l	45	No relexation
17	Iron (89 Fe)	APHA, 4600 H	BLQ (LOQ-0.01)	mgil	1.0	No relaxation
18	Alamiulum (sa Al)	APHA, 3111 D	BLQ (LOQ-0.002)	mg/l	0.03	0.2
19	Boron (ss B)	APHA, 4500 B	(LOQ-0.01)	mg/l	0.5	2.4
20	Phenolic Comnounds (as C5H5OH)	APHA 5530 C Chloroform Extraction Method: 2017	BLQ(LOQ-0.0 004)	трЛ	0.001	0.002
21	Anionic Detergents (se MBAS)	APHA 5540 C MBAS Nothed	8LQ(LOQ-0.9 5)	трЛ	0.2	1.0
22	Zinc (as Zn)	APHA, 3111 B	BLQ (LOQ-0 01)	mg/l	6	15
23	Total Chromium (se Cr)	APHA, 3111 B	BLQ (LQQ-0.002)	mėų	0.08	No relaxation
24	Copper (as Cu)	APHA, 3111 B	BLQ (LOQ-0.902)	mgri	.0.08	1.5
26	Mangeness (sa Mri)	APHA, 3111 B	(LOQ-0.01)	mgri	0.1	0.3
26	Cedmium (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	тул	0.003	No relaxation
27	Lead (se Pb)	APHA, 3111 B	BLQ (LOQ-0.002)	ngA	0.01	Nn relaxetion

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

""End of Report""

APHA, 3114 B

APHA, 3114 B

APHA, 3112 B

BLQ

(LOQ-0.001)

BLQ

(LOQ-0.008)

BLQ

(LOQ-0.0008)

0.01

9.01

0.001

mgA

mg/i

mg/l



Selenium (as Se)

Mercury (se Hg)

Total Arsenic (sa As)

28

29

30

Pager No. 2/2

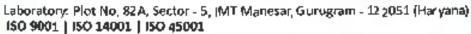
No relaxation

No relevation

No relaxation









Test Report

Sample Number: VEL/GW/06

Name & Address of the Party

M/s Jhabus Power Limited.

1 VEL Representative (Mr. Rejesh)

P.O. Atlaria, Tehsil- Ghansore, Distt-Seuni, Medhya.

Pradesh.

: Ground Water

: Village-Binsiki

Report No.

: VEL/W/2209261013/N

Format No

7.6 F 03

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

Poriod of Analysis

: 20/09/2022-30/09/2022

Receipt Date

; 2B/09/2022

Sampling Quantity

Sampling Date

: 15/09/2022

2 2Ltr.+2 Ltr.+1 Ltr. +250 ml

Sampling Type

: Grah

Sample Collected by

Sample Description

Environmental Condition

: OK

Sampling and Analysis

: APHA & IS

Location

8.No.	Parameter	Test Mathod	Result	unit	Requirement as per (\$:10500-2012	
					Acceptable Limit	Permissible Limits
Miero	biological Analysis:		_	-		
1	Ecoli	IB:15125: 2016	Absent	/100ml	Shall not be detectable in any 100 m) sample	•
2	Total Coliform	18:15185: 2016	Absent	/100mi	Shall not ha detectable in any 100 ml sample	7

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

""End of Depart""

(Checked By)

SATYA DEV Dy. Technical Manager-Micro (Approved By)

Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/GW/07

Name & Address of the Party

M/s Jhabus Power Limited.

VEL Representative (Mr. Rejesh)

P.O- Attaria, Tehali- Gheheore, Diett-Seoni, Madhya

: Ground Water

: Village- Durjanpur

Report No.

: VELAW/2209261014

Format No.

- 7.8 F 03

Party Reference No. ; 4300005298

Reporting Date

: 30/09/2022

Period of Analysia

: 30/09/2022-30/09/2022

Receipt Sam

: 28/09/2022

Sampling Date

: 15/09/2022

Sempling Quantity

2 Ltr.+2 Ltr.+1 Ltr.+250 ml

Sampling Туре

: Grab

Sample Collected by

Sample Description

Environmental Condition

Samping and Analysis

: OK

: APHA & IS

Protocol	

Location

B.No.	Parameter	Test Mathed	Result	Unit	Requirement as po IS:10500-2012	
					Acceptable Limit	Permissible Limits
1	pH (at 26 °C)	APHA 4500 H+B Electrometric Method: 2017	7.52	*	4.5-8.5	No.relexation
2	Colour	APHA 2120 B Visual Comparison Method: 2017	BLQ(L0Q.4.0)	Hazen Unit	5	15
3	Turbidity	APHA 2130 B Rephelometric Method:2017	BLQ(L0Q-1.0)	NTU	1	5
4	Odowr	APHA 2150 B Threshold Odour Method:2017	Agreeable		Agreeable	Agreeable
8	Tests	APHA 2190 B Flavor Threshold Test Method: 2017	Agreeable	•	Agreeable	Agreeable
5	Total Hardness (as CaCO3)	APHA 2340 C EDTA ThHmetric niethod:2017	187.25	mg/l	200	600
7	Catcium (ea Da)	APHA 3500 Ca B EDTA Titrimetric Method: 2017	55.76	mg/l	75	200
8	Total Alkalinity (as CaCO3)	APHA 2320 B Titration Method:2017	143.37	mgЛ	200	200
9	Chierine (as OI)	APHA 4590 CI B Argentometric Method: 2017	83.19	mg/l	250	1000
10	Residual Free Calorine (RFC)	APHA 3600 CI B todometrio Method:2017	BLQ(LOQ-0.1 5)	mg/l	0.2	1
11	Cyanide (as CN)	APHA 4500 CN E	BLQ(LOQ-0.0 2)	mg/l	0.05	No relaxation
12	Magnesium (as Mg)	APHA 3500 Mg B Calculation Method: 2017	11.63	mgf	30	100
13	Total Dissolved Solids	APHA 2540 C Gravimetric Method:2017	345.00	mg/l	500	2000
14	Sulphete (as 904)	APHA 4500 E Turbleimetrin Method:2017	34.58	mg/l	200	400

Page No. 1/2

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number :	VEL/GW/07	Report No.	: VEL/W/2209281014
-----------------	-----------	------------	--------------------

S.No	Parameter	Test Mathod	Result	Unit	Requirement as p IS:10500-2012	
					Acceptable Limit	Permissible Limits
15	Fluoride (es F)	APHA 4500 F D SPADNS Method:2017	0,65	mg/l	1.0	1.5
16	Nitrate (as NO3)	18:3026 (P-34), Chromotropic Method	7.7641	mg/l	46	No relaxation
17	fron (as Fe)	APHA, 4600 H	(LOQ-0.01)	mg/l	1.0	No relaxation
18	Alumipium (as Al)	APHA, 3111 D	BLQ (LOQ-0.002)	mgA	0.00	0.2
19	Boron (4s S)	APHA, 4500 B	(LOQ-0.01)	mg/l	0.5	2.4
20	Phenolic Compounds (as C6H5OH)	APHA 8530 C Chloroform Extraction Method: 2017	BLQ(LOQ-0.0 004)	mgA	0.001	0.002
21	Anionic Detergents (as MBAS)	APHA 8840 C MBAS Method	DLC(LCC-0.0	mgA	0.2	1.0
22	Zinc (as Zn)	APHA, 3111 B	8LQ (LOQ-0.01)	mgñ	5	16
22	Total Chromium (as Cr)	APHA, 3111 B	BLQ (LOQ-0.002)	mgfl	0.05	No relexation
24	Copper (se Co)	APHA, 3511 S.	BLQ (LOQ-0.002)	mgil	0.65	1,5
26	Mengenese (es Mn)	APHA, 3111 B	(FOO-01N)	mg/l	0.1	0.3
26	Cedmium (aa Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.003	Me relexation
27	Lead (as Pb)	APHA, 3111 B	BLQ (LOQ-0.002)	mgA	0.01	No relaxation
28	Seleniom (as Se)	APHA, 8114 B	BLQ (LOQ-0.001)	mg/l	0.04	Ho relexation
29	Total Arsenic (as Ae)	APHA, 3114 B	BLQ (LQQ-0.005)	mg/l	10,04	No relaxation
30	Moreury (as Hg)	APHA, 3112 B	DLQ (LOG-0.0005)	Ngm	0.001	No relaxation

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

End of Report



Page No. 2/2



Laboratory: Plot No. 82 A, Sector - 5, IMT Manesar, Gurugram - 12 2051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/GW/07

Name & Address of the Party

: M/s Jhabua Power Limited.

: VEL Representative (Mr. Rajesh)

P.O. Atterla, Tehall- Ghansore, Distt-Seoni, Medhya

: Ground Water

: Village- Durjanpur

Report No.

: VEL/W/2209261014/N

Permat No.

7.8 F 03

Party Reference No : 4300006298

Reporting Data

: 30/09/2022

Period of Analysis

: 26/09/2022-30/09/2022

Receipt Date

: 28/09/2022

Sampling Date

: 15/09/2022

Sampling Quantity

2 Ltr.+2 Ltr.+1 Ltr.+250 ml

Sampling Type

Grab

Environmental Condition

Sample Description

Sample Collected by

gampling and Analysis

: APHA & IS

Location

9.No.	Parameter	meter Test Mathod Result Unit	Unit		ment as per 1600-2012	
					Acceptable Limit	Permiesible Limita
Micro	blological Analysis:					
1	E.call	IS:15185: 2016	Absent	Moon)	Shall not be detectable in any 100 mi sample	
2	Tatal Coliform	IS:16166: 2018	Absent	/100mt	Shall not be detectable in any 100 ml sample	

End of Report

(Checked By)

SATYA DEV Dy. Technical Manager-Micro (Approved By)

Page No. 1/1



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122(51 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/GW/03

: M/s Jhabua Power Limited.

Report No.

: VEL/W/2209261016

Name & Address of the Party

P.O. Atlaria, Tensil- Ghansore, Diatt-Seonl, Machya

1 VEL Representative (Mr. Rejeah)

Format No.

2.7.8 F 03 Party Reference No. : 4300006298

Pradesh.

Reporting Date

30/08/2022

Period of Analysis

Sampling Type

: 26/08/2022-30/09/2022

Receipt Date

: 26/09/2022

Sampting Date

: 16/09/2022

: Grab

: Graped Water

Location Sample Collected by

Sample Description

: Village-Gunari

Sampling Quantity

2 Ltr.+2 Ltr.+1 Ltr.+250 ml

Environmental Condition

: OK

Sampling and Analysis

: APHA & IS

S.No.	Parameter	Test Mathod	Result	Unit		ment as per 600-2012	
					Acceptable Limit	Permissible Limits	
1	pH (at 25 °C)	APHA 4500 H+B Electrometric Mathod:2017	7.40	-	6.5-8.6	No relaxation	
2	Delour	APHA 2120 B Visual Comparison Method:2017	BLQ(L00-1.0)	Hazen Umit	5	16	
3	Turbidity	APHA 2130 B Nephelometrio Method:2017	BLQ(LDQ-1.0)	NTU	1	5	
4	Odour	APHA 2180 B Threshold Odour Method: 2017	Agreeable	*	Agreeablo	Agreeablo	
Б	Taste	APHA 2150 B Flavor Threshold Test Method:2017	Agreeable	*	Agreeable	Agreeable	
6	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetrio Method:2017	166.98	mg/l	200	600	
7	Calcium (as Ca)	APHA 3500 Ga B EDTA Titrimetric Method:2017	50.03	mg/l	73	200	
8	Total Alkalinity (as CaCO3)	APHA 2320 B Thration Method: 2017	138.76	mg/l	200	900	
9	Dhioride (as Cl)	APHA 4500 CI B Argentometric Method:2017	67.99	mg/l	250	1000	
10	Residuel Free Chlorine (RFC)	APHA 3800 CI B ladometric Method:2017	BLQ(LOQ-0.1 5)	Mg/l	0.2	1	
11	Cyanble (se CN)	APHA 4600 CN E.	BLQ(LOQ-0.0 Z)	mg/l	0.06	No relaxation	
12	Magneeium (se Mg)	APHA 3600 Mg B Calculation Mathod: 2017	3.83	mg/l	30	100	
13	Total Dissolved Solius	APHA 2640 C Gravimetric Method: 2017	336.00	mg/l	500	2000	
14	Sulphete (as 804)	APHA 4801 E Turbidimetric Mathed:2017	38.56	mg/l	200	400	
_	The black of the same of the s						

Page Noy 1/2

Ph: 6124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in



Laboratory: Plot No. 82 A, Sector - 5, (MT Manesar, Gurugram - 1₂2051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/GW/03	Report No.	; VEL/W/2209261015
--------------------------	------------	--------------------

9.No.	Parameter	Test Method	Requit	Unit		Requirement as per (8:10500-2012	
	340				Acceptable Limit	Permissible Limits	
15	Fluoride (as F)	APHA 4600 F D SPADNS Method: 2017	0.79	mg/l	1.0	1,5	
16	Nitrate (se NO3)	IS:3025 (P-34), Chromotropic Method	8.52	mg/l	46	No relexation	
17	Iron (as Fe)	APHA, 4500 H	8LQ (LOQ-0.01)	mg/l	1.0	Ho relaxation	
18	Atumintum (as Al)	APHA, 3111 D	(LOQ-0 102)	mgil	0.03	0.2	
10	Boron (as B)	APHA, 4800 B	BLQ (L0Q-0.01)	MgA	0.8	2.4	
20	Phenolic Compounds (as C6H5OH)	APHA 6830 C Chloroform Extraction Method:2017	BLQ(LOQ-0.0 004)	mg/l	0.001	0.002	
21	Anionic Detergents (as MBAS)	APHA 5540 C MBAS Method	BLQ(LOQ-0.0 5)	mg/l	0.2	1.0	
22	Zino (es Zn)	APHA, 3111 B	BLQ (LOQ-0.01)	mg/l	5	15	
23	Total Chromium (as Cr)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.65	No releastion	
24	Copper (ae Cu)	APHA, 2111 P	BLQ (LOQ-0.002)	mg/l	0.05	1.6	
28	Mangenese (as Mu)	APHA, 3111 B	BLQ (LQQ-0.01)	mg/l	0.1	0.3	
28	Cadmidm (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.002	No relaxation	
27	Lead (as Pb)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.01	No relaxation	
28	Selenium (as Se)	APHA, 3114 B	OLQ (LOQ-0.001)	ngfl	0.03	No relaxation	
29	Total Arsenio (as As)	APHA, 3114 B	(LOQ-0.005)	Ngm	0.01	No relaxation	
30	Mercury (as Hg)	AFHA, 3112 B	9LQ (LQQ-0.0006)	mgA	0.001	No relacation	

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

End of Report



Approved by)

Page No. 2/2





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 12205 1 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/GW/03

Name & Address of the Party

: We Jhebua Power Limited.

: VEL Representative (Mr. Rajesh)

P.O. Altaria, Tehail- Ghansore, Diett-Seon), Machya

: Ground Water

: Village-Guneri

Report No.

: VEL/W/2209261015/N.

Format No.

1.8 F 03

Party Reference No :: 4300005298

Reporting Date

: 30/08/2022

Period of Analysia

: 26/09/2022-30/09/2022

Receipt Date

: 26/09/2022

: 15/08/2022

Sampling Date

Sampling Quantity : 2 Ltr.+2 Ltr.+1 Ltr.+288 mt

Sampling Type

: Grab

Environmental Condition

Sample Description

3 ample Collected by

Sampling and Analysis

: APHA & IS

Location

S.Na.	Paremeter	Test Mathrid	Result	Unit	Requirement as per IS:10600-2012	
				Acceptable Limit	Permiselble Limits	
Micro	biological Analysia:			-		
1	E.coll	IS:15185: 2010	Absent	Moomt	Shell not be detectable in any 100 nd sample	,
2	Tetal Coliform	IS:15185: 2016	Absent	/100ml	Shell not be detectable in any 100 ml eample	

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

End of Report

SATYA DEV Dy. Technical Manager-Micro (Approved By)

Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number :

VEL/GW/04

Name & Address of the Party

M/s Jhabus Power Limited.

P.O. Atlania, Tehsil- Ghansore, Disit-Ssoni, Machya

Pradesh.

: Ground Water

: Village- Dota

Report No.

: VELW/2209261010

Format No

7.8 F 03

Party Reference No.

: 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

: 26/09/2022-30/09/2022

Receipt Date

: 28/09/2022

Sampling Data

Sampling Quantity

: 15/09/2022

Sampling Type

4.2 Lbt.+2 Ur.+1 Ur.+250 ml

: VEL Representative (Mr. Rajesh)

: Grab

Environmental Condition

Sample Description

Sample Collected by

Sampling and Adalysis

: OK

: APHA & IS

Protocol

Location

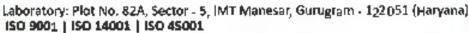
3.No	Parameter	Test Method	Result	Unit	Requirement as per 19:10500-2012	
					Acceptable Limit	Permiesible Limits
1	pH (at 16 °C)	APHA 4600 H+B Electrometric Method:2917	7,42	+	8.5-8.5	No relaxation
2	Colour	APHA 2120 B Visual Compension Method:2017	BLQ(1,0Q-1,0)	Hezen Unit	5	16
3	Turbidity	APHA 2130 B Nophelometric Method:2017	BLQ(LOQ-1.0)	NTu	1	δ
4	Odour	APHA 2150 B Threshold Odour Method:2017	Agreeable	-	Agreeable	Agresable
δ	Taste	APHA 2160 B Flavor Threshold Test Method: 2017	Agreeabls		Agreeable	Agresable
5	Total Hartinese (as CeCO3)	APHA 2340 C EDTA Titrimstric Method:2017	187.25	mg/l	200	608
7	Calcium (es Ca)	APHA 3800 Ca S SDTA Titrimetric Method: 2017	67.89	mg/l	76	200
8	Total Alkalinity (as GaCO3)	APHA 2320 B Titration Method:2017	161.87	mg/l	200	600
9	Chloride (as Cl)	APHA 4600 CI B Argentometric Method:2017	55.85	mg#	250	1044
10	Residual Free Chlorine (RFC)	APHA 3590 CI B lodometric Method 2017	BLQ(LOQ-0.1 6)	mg#	0.2	1
11	Cysnics (as CN)	APHA 4800 CN E	BLQ(L0Q-0,0 2)	mgfl	0.06	No relaxation
12	Magneelum (as ing)	APHA 3500 Mg B Calculation Method:2017	10.33	mgri	30	180
13	Total Dissolved Solids	APHA 2840 C Gravimetric Method.2017	329.00	mgA	600	2508
14	Sulphate (as 504)	APHA 4600 E Turbidimetrio Method:2017	40.54	mgЛ	200	400



Page No. 1/

UR (Ph. 0124-4343750/752/753, 98103\$5569, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in









Test Report

Sample Number :	VEL/GW/04	Report No.	VEL/W/2	200261016
		1109-11111		

			Hoperation			
5.No.	Parnmeter	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limits
16	Fluoride (as F)	APHA 4500 F D SPADNS Method:2017	0.67	mgri	1.0	1,5
16	Nitrate (as NO3)	IS:3025 (P-34), Chromotropic Method	5.82	mg/l	45	No relausation
17	Iron (as Fe)	APHA, 4500 H	BLQ (LOQ-0.01)	mg/l	1.0	No relazation
18	Aluminium (as Al)	APHA, 3111 D	BLQ (LOQ-0.002)	mgA	0.03	0.2
19	Boron (as 5)	APHA, 4500 B	(LOQ-0.01)	mgA	0.5	2.4
20	Phenolic Compounds (sa C8H6OH)	APHA 5530 C Chloroform Extraction Method:2017	BLQ(LOQ-0.0 004)	mg/l	0.001	0.502
21	Antonic Detergents (as MBAS)	APHA 8840 C MBAS Method	BLQ(LOQ-0.0 5)	mg/l	0.2	1,0
22	Zinc (as Zn)	APHA, 3111 B	BLQ (LOQ-0.01)	mg/l	6	15
23	Total Chromium (as Cr)	APHA, 3111 B	BLQ (LOQ-0,002)	mgil	0.06	No relaxation
24	Capper (as Cu)	APHA, 3111 B	BLQ (LOQ-0.002)	mgA	0.06	1.5
23	Manganese (as ffin)	APHA, 3111 B	(LOQ-0.01)	mgA	0.1	0.3
26	Cedmium (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.003	No relaxation
27	Lead (sa Pb)	APHA, 3111 B	BLQ (LOQ-0.002)	Ngm	0.01	No relexation
28	Selenium (es 5e)	APHA, 3114 B	BLQ (LOQ-0.001)	mg/l	9.01	No relaxation
20	Total Arsenio (sa As)	APHA, 3/14 B	BLQ (LOQ-0.005)	mg/l	0.01	No relaxation
30	Mercury (as Hg)	APHA, 3112 B	BLQ (LOQ-0.0005)	mg/l	0.001	No relaxation

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

""End of Report""



Page No. 2/2





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/GW/04

: M/s Jhabus Power Limited.

Report No. Format No. : VEL/W/2209261016/N

Name & Address of the Party

P.O. Aftaria, Tehali- Ghansore, Distt-Seoni, Madhya

Party Referenca No : 4300005298

7.8 F 03

Pradesh.

Reporting Date

: 30/08/2022

Period of Analysis

: 28/08/2022-30/09/2022

Receipt Date

: 26/09/2022

: Ground Water : VMage- Dola

Sampling Date Sampling Quantity

: 15/09/2022 : 2 Ltr.+2 Ltr.+1 Ltr.+260 ml

Sample Opliected by

Sample Description

: VEL Representative (Mr. Rajesh)

Sampling Typo

: Grab

Environmental Condition

: OK

Sampfirig and Analysis

: APHA & IS

Location

S.No.	Parameter	Test Method	Result	Unit		ment sa per 500-2012	
					Acceptable Limit	Permisafbis Limits	
Micn	biological Analysis:		-				
1	Ecoli	IS:15185: 2016	Absent	/100ml	Shell not be detectable in any 100 ml sample	-	
2	Total Coliform	(3:16186; 2016	Abaent	/100ml	Shell nnt po delectable in any 100 mi eample		

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

""End of Report""

SATYA DEV

Dy. Technical Manager-Micro

Page No. 1/1

(Approved By)





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number :

Name & Address of the Party

VEL/GW/08

M/s Jhabua Power Limited.

P.O- Atlaria, Tehail- Ghansore, Distt-Seoni, Madhya

Pradesh.

: Ground Water

: Village-Gorakhour

: VEL Representative (Mr. Rajesh)

Report No.

: VELAW2209281817

: 28/09/2022-30/09/2022

Format No

7.8 F 03

Party Reference No. Reporting Data

: 4300005298 1 30/09/2022

Partod of Analysis

Receipt Date

: 28/09/2022

Sampting Date

: 15/09/2022

Sampting Quantity

: 2 Ltr.+2 Ltr.+1 Ltr.+250 mi

Sampling Type

: Greb

Sample Collected by Environmental Coddition

Sample Description

Sampling and Analysis

: OK

: APHA & IS

Protocol

Location

5.No.	Parameter	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permiestble Limits
1	pH (at 28 °C)	APHA 4500 H+B Electrometric Mathod: 2017	7.50		6.5-0.6	No retacation
2	Colour	APHA 2120 B Visual Comparison Mathod;2017	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity	APHA 2130 El Nephelometrio Mathod: 2017	BLQ(L0Q-1.0)	NTU	1	5
4	Ododr	APRA 2150 B Threshold Odour Method: 2017	Agreeable		Agreeable	Agreeable
5	Tasta	APHA 2100 R Flevor Threshold Test Method:2017	Agreeable	•	Agresable	Agreeable
6	Total Hardness (se CaCO3)	APHA 2840 C EDTA Titrimetric Method:2017	171.20	mgil	200	600
7	Celcium (sa Ca)	APHA 4500 Ca B EDTA Titrimetric Method:2017	56.76	MgM	78	200
8	Total Alkalinity (as CaCO3)	APRA 2323 B Titration Method: 2017	148.00	mg/li	200	503
9	Citioride (as Ci)	APHA 4500 Cl S Argentometrib Method:2017	42.82	mg/l	250	1000
16	Residual Free Chimine (RFC)	APHA 3600 CI B (odometric Method:2017	BLQ(LOQ-0.1 5)	mg/l	0.2	1
11	Cyanide (se CN)	APMA 4500 CN E	SLQ(LOQ-0.0 2)	mg/t	0.05	No relaxation
12	Magnesium (as Mg)	APHA 3500 Mg B Calculation Mathnd:2017	7.73	mg/t	30	160
13	Yotal Dissolved Solids	APHA 2640 © Gravimetric Mathod:2017	320.00	mg/t	200	2000
14	Sulphate (as SO4)	APHA 4500 E Turbidimetric Method:2017	32.48	mg/l	200	400



Ph-0124-4343750/752/753, 9810355569, 9953147268 E-mail: inb@vardan.co.in, bd@vardan.co.in



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) 150 9001 | ISO 14001 | ISO 45001





Test Report

	Number: VEL/GW/08		Report No.			
S.No.	Parametar	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limite
18	Fluoride (as F)	APHA 4800 P D SPADNS Method:2017	0.88	mg/l	1,0	1,5
18	Nitrate (as NO3)	IS:3025 (P-34), Chromotropic Method	8.68	mg/l	46	No relatation
π	iron (as Fe)	APHA, 4500 H	BLQ (LOQ-0.01)	mg/l	1.0	No relaxation
16	Aluminium (as Al)	APHA, 3111 D	(LOQ-0.002)	mg/l	0.03	0.3
19	Boron (as B)	APHA, 4500 B	BLQ JLOQ-0.011	mg/l	0.5	2.4
20	Phenoiic Compounds (as C6H5CH)	APHA 5530 C Chloroform Extraction Method: 2017	BLQ(LOQ-0.0 004)	mgil	0.001	0.002
21	Anionio Detengents (as MBAS)	APHA 8840 C MBAS Method	BLQ(LOQ-0.0 5)	mg/l	0,2	1,0
22	Zinc (ee Zn)	APHA, 2111 B	(LOQ-0 01)	mg/l	6	15
23	Total Chromium (as Cr)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	No relexation
24	Copper (se Cu)	APHA, 3111 B	BLQ (LOQ-0 002)	mg/l	0.05	1.8
25	Manganese (as Mn)	APHA, 3111 B	8LQ (LOQ-0.01)	mgil	01	0.3
25	Cadmidm (as Cd)	APHA, 3111 B	Bl.Q (LOQ-0.002)	mg/l	0.003	No relaxation
27	Lead (as Pb)	APHA, 3t1t B	Bl.Q (LOQ-0.002)	mg/l	0.01	No relaxation
28	Salenium (es Sa)	APHA, 3114 B	(LOQ-0.001)	mg/l	0.0t	No relaxation
29	Total Amenio (as As)	APHA, 3114 B	BLQ (LQQ-0.005)	MgM	0.01	No relexation
30	Mercury (as Ng)	APHA, 3112 B	BLQ	mg/l	0.001	No relaxatron

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

End of Report

(LOQ-0.0005)

www.varden.co.in

(Approved By)

Page No. 2/2



Laboratory: Plot No. 82A, Sector - S, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/GW/08 Name & Address of the Party

: M/a Jhabua Power Limited.

P.O. Atteria, Tehell-Ghansore, Disti-Sedhi, Medhya-

: Ground Water

: Village- Gorakhpur

: VEL Representative (Mr. Rajash)

Report No.

: VELAW/2209261017/N

Format No.

78F03

Farty Reference No.

: 4300005288

Reporting Date Period of Analysis : 30/09/2022

: 26/09/2022-30/09/2022

Receipt Date

: 26/09/2022

Sampling Oate

; 15/09/2022

Sampling Quantity

\$ 2 Ltr.+2 Ltr. +1 Ltr.+250 ml

Sampling Type

: Grab

Sample Collected by En virohmental Condition

Sample Description

Sampling and Analysis

: OK

: APHA & IS

Location

3.No.	Parameter	Test Mathod	Result	Unit		ment as per 500-2012	
					Acceptable Limit	Permissible Limite	
Micro	obiologicai Analyzis:		-	+			
1	E.coli	IS: 15185: 2018	Abeant	/100ml	Shell rint be detectable in any 100 ml eample	•	
2	Total Celiform	IS:15185: 2016	Absent	Mooms	Straff not be detectable in any 100 mi aample		

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

End of Report

(Checked By)

SATYA DEV

Dy. Technical Manager-Micro

n (Approved By)

Page No. 1/1



Annexure -7

Surface water Analysis Report



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 12 2051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number : Nema & Address of the Party

VEL/SW/01

: NVs Jhabus Power Limited.

P.O. Altaria, Tehail- Ghansora, Distt-Seoni, Madhya

Pradesh.

Report No.

: VEL/SW/2209261002

Formal No

7.8 F-03 Party Reference No :: 4300005298

Reporting Date

: 01/10/2022

Period of Analysis

: 26/09/2022-01/10/2022

Receipt Date

: 26/09/2022

Sampling Date Sampling Quantity

16/09/2022 3 2 Ltr.+2 Ltr.+1 Ltr.+250 att

Sastpling Type

: Grab

Sample Collected By Environmental Condition

Sample Deesription

: VEL Representative (Mr. Rajesh)

: OK

Sampling and Analysis

: IS: 3025 & APHA

: Surface Water

: Partyat River

Protocol

Legation

B.No.	Test Parameters	Test Method	Pospila	Units
1	pH (at 26°C)	APHA 4500 H+B Electrometric Method RA:2012	7.45	
2	Colour	APHA 2120 (B) Visual Comparison Method RA:2012	BLQ(LOQ-1.0)	Hazen
3	Odour	APHA 2160 B, Trreshpld Odour Method	Unobjectionable	-
4	Total Hardinesa	APHA 2340 C,EDTA Titrimetric Method	192.60	mg/l
8	Chloride (as CI)	APHA 4500 CI-B Argentometric Method:2017	26.71	mg/l
0	Cyaniria (as CN)	APHA 4500 CN-E;2017	BLQ(LOQ-0.02)	Ngm
7	Total Dissolved Splids	APHA 2640 C Gravimetric Method RA:2012	252.00	Ngm
B	Sulphate (as SO4)	APHA 4500 SO4 E Turbidimetric Method RA:2009	7.65	Mg/l
9	Fluorido (as F)	APHA 4500 F D Spands Method :2J17	0.60	mg/l
10	COD	APHA 5220 B Open Reflux Method	24.48	mg/l
11	BOD (3 Days at 27°C)	APHA 6210 C Ultimate BOD Teat: 2017	5.0	Mg/l
12	Nitrate (as NO3)	IS 3025 (P-34) Reff. 2603 Chromotropid Method :2017	3.0	Mg/l
13	Lead (ea Pb)	APHA 3(11 B Direct Air Acetyleno Fiame Method:2017	BLQ(LOO-0.002)	mg/l
14	Salenium (Se)	APHA 3114 B:2017	BLQ(LOQ-0.001)	atg/l
10	Iron (de Fe)	APHA 3600 Fe B 1,10 Phenanthmilino Method:2017	BLQ(LOQ-0.01)	Ngm
16	Arsenic (se As)	APHA 3114 B:2017	BLQ(LOQ-0.005)	mg/l
17	Total Chmmium (Cr)	APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg#
16	Phenplic Compounds (es CSH6OH)	APHA 5530 C Chloroform Extraction Method:2017	BLQ(LOQ-0.0004)	mg/l
19	Anionic Detergents (as MBAS)	APHA 5540 C MBAS Method	BLQ(LOQ-0.05)	m g/l
20	Zino (as Zn)	APHA 3111 B Direct Air Acetyleria Flame	BLQ(L0Q-0.01)	医 上前首用

Page No. 1/3

Ph: 1824-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in







Test Report

Sample Number: VEL/SW/01 Report No. : VEL/SW/2209261602

S.No.	Teat Parametera	Test Nethod	Results	Units
20		Method:2017		_
21	Copper (as Cu)	APHA 3111 B Direct Air Acetylane Flame Method: 2017	BLQ(LOQ-0.002)	mg/i
22	Cadmidm (se Cd)	APHA 3111 B Direct Air Acetylane Flame Method;20/17	BLQ(LOQ-0.002)	MgM
20	Turbidity	APHA 23rd Edition, 2130 B	BLQ(1.0Q-1.0)	NTU
24	Calcidm as Ca	APHA 23rd Edition, 3500 Ca B	34.31	mg/l
26	Alkalinity as CnCO3	APHA 23rd Editlod, 2320 B	27.80	mg#
25	Magnesium as Mg	APHA 23rd Editlod, 3600 Mg B	25.96	mg#
27	Aluminium as Al	APRA 23rd Editiod, 3111 B	BLQ(LOQ-0.002)	mg#
28	Вогол	APHA 23rd Edition, 4500 B C	BLQ(LOQ-0.01)	mg#
29	Residual Pres Chlorine	APHA 3600 Cl 8 lodometric Method:2017	8LQ(LOQ-0.18)	mg#
80	Total Suspended Solids	APHA 2540 D Cravimetric Method	8.0	mg/i
31	Manganess as Mn	APHA 3111 8:2017	BLQ(LOQ-0.002)	mg/l
32	Mercury (as Hg)	APHA 3112 8 Cold Vapor AAS Method : 2017	BLQ(LOQ-0.0008)	mg/l





Page No. 2/3



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number :

VEL/6W/01

Report No.

: VEL/SW/2209261002

,				
S.No.	Test Paramestis	Test Method	Results	Units
33	Total Coliform	IS 1822:1981	⋖	MPN/100 ml
34	Ecoli	IS 1822:1981	<2	MPN/100 tst

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

End of Report

(Checked By)

SATYA DEV

Dy, Technical Manager-Micro

ADAN ENLER (Approved By)

Page No. 3/3



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram • 1₂₂051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





TC-6209

Test Report

Sample Number: VEL/SW/03

Name & Address of the Party :: 1

M/e Jhabua Power Limited.

P.O. Atlaria, Tehell- Ghansore, Distt-Seoni, Madhya

Pradesh.

Report No. : VEU/SW/2209261003

Format No ; 7.8 F-03

Party Reference No : 4300005298

Reporting Date : 01/10/2022 Period of Analysis : 26/09/2022-01/10/2022

Receipt Date : 25/09/2022

Sampling Date : 18/09/2022

Sampling Quantity : 2 Ltr. + 2 Ltr. +1 Ltr.+250 mg

Sampling Type : Grab

Sample Description

: Burface Water

Location

: Temor River Near village-Pati : VEL Representative (Mr. Rajesh)

Sample Collected By Environmental Condition

: ĎK

Sampling and Analysis

: IS: 3025 & APHA

Protocol

S.No.	Test Parameters	Test Method	Results	Units
1	pH (at 25°C)	APHA 4500 H+B Electrometric Method RA:2012	7.50	
2	Colour	APHA 2120 (B) Visual Cethpedson Method RA:2012	BLQ(LOQ-1.0)	Hazen
3	Ododr	APHA 2150 B, Threshold Ododr Method	Unobjectionable	-
4	Total Hardness	APHa 2340 C,EDTA Titrimetric Nathod	123.06	mg/l
8	Chloride (as Cl)	APHA 4500 CI-B Argentometric Method:2017	31.57	mg/l
6	Cyanide (as CN)	APHA 4600 CN-E:2017	BLQ(LOQ-0.02)	mg/l
7	Total Dissolved Solida	APHA 2640 C Gravimetric Method RA:2012	220.06	ng/l
8	Sulphate (as 804)	APHA 4500 SO4 E Turbidimetric Method RA:2009	8.50	Mg/l
9	Fluorida (as Fl	APHA 4500 F D Spands Method :2017	6.52	mgd
10	СОБ	APHA 5220 E Open Reflux Method	28.50	mg/l
11	BOD [3 Days at 27°C)	APHA 5210 C Littimate BOD Test: 2017	8.0	mg/l
12	Nitrate (as NOS)	1S 3025 (P-34) Reff. 2003 Chromotropic Method: 2017	7.16	mg/l
13	Lead (se Pb)	APHA 3111 8 Direct Air Acetylene Flamo Method:2017	BLQ(LOQ-0.002)	ngA
14	Selentum (Sa)	APHA 3114 B:2017	BLQ(LOQ-0.001)	mg/l
15	Iron (as Fé)	APHA 3500 Fe S 1,10 Phenaethroline Method:2017	BLQ(L0Q-0.01)	ragal
16	Arsenis (as As)	APHA 3114 B:2017	BLQ(LOQ-0.005)	mg/l
17	Total Chronium (Cr)	APHA 3111 B Direct Air Acetylens Flame Method:2017	BLQ(LOQ-0.002)	ngA
18	Phenolic Compounds (se CSH5OH)	APHA 8630 C Chloroform Extraction Method: 2017	BLQ(LOQ-0.0004)	mg/l
10	Anionic Detergents (as MBAS)	APHA 6640 C MBAS Method	BLQ(LOQ-0.05)	mg/l
20	Zinc (se Zni NRO)	APHA 3111 D Direct Air Acetylene Flerne	BLQ(LOQ-0.01)	-mg/l

Page No. 1/3

Dell'istanco

The state of the s

Ph: 0124-4343750/752/758, 9810355569, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in









Test Report

Sample Number: VEL/SW/03 Report No. : VEL/SW/2209261003

S.No.	Test Peremeters	Test Method	Results	Units
20		Method:2017		
21	Copper (as Cu)	APHA 3111 B Direct Air Acetylene Flama Method:20/17	BLQ(LOQ-0.002)	mg/l
22	Cedmium (as Cd)	APHA 2111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg/l
23	Turbidity	APHA 23rd Edidon, 2130 B	2,9	NTU
24	Calcium as Ca	APHA 23rd Edition, 3690 Ca B	27.88	mg/l
25	Alkelinity as CeCC3	APHA 23rd Edition, 2320 B	146.0	mg/)
26	Magnoslum as Mg	APHA 23rd Edition, 3800 Mg B	12.97	mgfl
27	Atumtulum ee Al	APHA 23rd Edition, 3111 8	BLQ(LQQ-0.002)	mgfl
88	Boron	APHA 23rd Edition, 4500 B C	BLQ(LCQ-0.01)	mgil
29	Residual Free Chlorine	APHA 3500 CI B1odometrio Method: 2017	BLQ(L0Q-0.15)	mgil
30	Total Suspended Solide	APHA 2340 B Gravimetric Method	7.0	mg/l
31	Manganese as Mn	APHA 3111 B:2017	BLQ(L0Q-0.01)	mg/l
32	Marcury (se Hg)	APHA 3112 B Cold Vapor AAS Method : 2017	BLQ(LOQ-0.0005)	mg/l





Page No. 2/3





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/SW/03

Report No.

:: VEL/SW/2208261003

S.No.	Test Parameters	Test Method	Results	Unita
33	Total Coliform	IS 1622:1981	<2	WPN/100 mi
34	Ecoli	IS 1622:1981	<2	MPN/100 ml

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

""End of Report""

(Checked By)

SATYA DEV

Dy. Technical Manager-Afficia

Page No. 3/3



Laboratory: Plot No. 82A, Sector - 5, IMT Manesay, Gurugram - 1,2051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/SW/04

Name & Address of the Party

: M/s Jhabua Power Limited.

: Nala Near Village Binalid

: VEL Representative (Mr. Rajech)

P.O. Attaria, Tehsil- Ghansore, Disti-Seoni, Madhya

Pradesh.

Report No.

: VEL/SW/2209261004

Format No.

Party Reference No 🚉 4300005298

7.8 F-08

Reporting Date

: 01/10/2022

Period of Analysis

Receipt Date

: 26/09/2022-01/10/2022

; 26/09/2022

Sampling Date

Sampling Quantity

16/09/2022 : 2Ltr.+2 Utr.+1Ltr.+250 ml

Sampling Type

: Gmb

Environmental Condition

Sampling and Analysis

Sample Description

Sample Collected By

Protocol

Location

: 18:3025 & APHA

: Surface Water

3.No.	Test Parametem	Test Method	Results	Unite
1	pH (at 25°C)	APHA 4500 H+B Electrometric Method RA:2012	7,38	-
2	Colonr	APHA 2120 (B) Visual Comparison Method RA:2012	BLQ(LQQ-1.0)	Hazen
3	Ododr	APHA 2150 B, Threshold Odour Method	Unobjectionapia	
4	Total Nardnese	APHA 2340 C,EDTA Titrimetrio Method	204.65	mg/l
6	Ghioride (as CI)	APHA 4500 CI-B Argentometric Method:2017	43. T1	mgA
8	Cyanide (as CN)	APHA 4500 CN-E:2017	BLQ(L0Q-0,02)	mg/l
7	Total Dissolved Sulids	APHA 2840 C Gravimetrio Method RA:2012	360.00	mg/l
â	Sulphate (as SO4)	APHA 4500 SO4 E Turbidimetric Method HA:2009	10.55	mg/l
9	Pluorida (es F)	APHA 4500 F D Spands Method.:2017	0.66	mg/l
10	COD	APHA 6220 B Open Reflux Method	44.88	mg/l
11	BOD (3 Days et 27°C)	APHA 5210 C Ultimate BOD Test: 2017	8.0	mg/l
12	Nitrate (as ND2)	IS 3025 (P-34) Reff. 2003 Chromotropic Method ;2017	0.01	шБу
13	Lead (as Pb)	APHA 3111 D Direct Air Acetylane Fleme Method:2017	BLQ(LOQ-0,002)	тол
14	Selenium (Se)	APHA 3114 D:201T	BLQ(L0Q-0,001)	Ng/I
15	(ron (as Fe)	APHA 3500 Pe D 1,10 Phonanthrolino Method:2017	BLQ(LOQ-0.01)	Пgm
10	Americ (as As)	APHA 3114 B:2017	BLQ(LOQ-0.008)	mg/l
17	Total Chromium (Cr)	APHA 3111 B Cirect Air Acetylepe Frame Method:201T	BLQ(LQQ-0.002)	Пgm
18	Phanelic Compounds (as C6H5OH)	APHA 6630 C Chloroform Extraction Method:201T	BLQ(LOQ-0.0004)	mg/l
19	Actonic Detergents (as MBAS)	APHA 5540 C MBAS Method	BLQ(LQQ-0.06)	mg/l
20	Zinc (89 Zn)	APHA 3111 D Cirect Air Apetyland Flame	BLQ(L0Q-0.01)	mg/l

Page No. 1/3 dan.co.in

Ph: 0124-4343750/752/753, 1810355568, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in



Laboratory: Plot No. 82 A, Sector - 5, (MT Manesar, Gurugram - 1220 51 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





TC-6299

Test Report

Sample Number :	VEL/SW/04	Report No.	: VEL/SW/2209261004
-----------------	-----------	------------	---------------------

S.No.	Test Parameters	Test Method	Resulta	Unite
20		Method:2017		
21	Copper (se Cu)	APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg/l
22	Cadmium (as Cd)	7APHA 9111 B Direct Air Acetylene Flams Method:2017	BLQ(LOQ-0.002)	Mgm
23	Turbidity	APMA 23rd Edition, 2130 B	10.2	NYU
24	Calcium as Ca	APHA 23rd Edition, 3500 Ca B	68-62	mg/l
25	Alkelinity as CaCQ3	APHA 23rd Edition, 2320 B	198.90	mg/l
2\$	Magnesium as Mg	APHA 23rd Edition, 3500 Mg B	9.02	ngi
27	Atuminium as At	APHA 23rd Edition, 3111 B	BLQ(L00-0.002)	mg/l
28	Boron	APHA 23rd Edition, 4600 B C	BLQ(LOQ-0.01)	mg/l
28	Residuel Free Chlorine	APHA 3600 CI B lodometric Method:2017	BLQ(LOQ-0.15)	mg/i
30	Total Suspended Solids	APHA 2640 D Gravimetric Method	22.0	mg/i
31	Menganese as Mn	APHA 3111 B:2017	BLQ(LCQ-0.01)	mg#
32	Mercury (as Hg)	APHA 3112 B Cold Vapor AAS Method : 2017	BLQ(L0Q-0.0005)	mg/l





Page No. 2/3



Laboratory: Piot No. 82A, Sector - 5, (MT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number:

VEL/SW/04

Report No.

: VEL/SW/2209261004

5.No.	Test Perameters	Test Method	Recults	Unita
33	Total Californ	18 1622:1991	•	MPN/100 ml
34	Ecoli	IS 1622:1991	<2	MPN/100 ml

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

End of Report

(Checked By)

SATYA DEV

Dy. Technical Manager-Micro

0 \ \ (Approved By)

Page No. 3/3

Annexure -8

Green belt development report

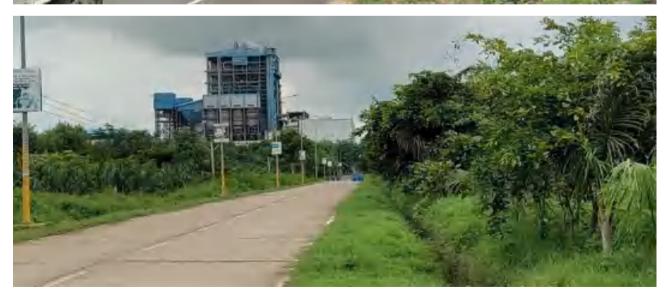
Annexure 8

Plantation on 33% land of 406 acres	134 acres
Density of plantation	2500 plants/Hectare
Area required per plant	4.0 SQM
Total plantation required on 134 acres (542164 SQM) of land	177102 Nos
No of plantation completed	181000 Nos
Survival rate maintained	>70%

PLANTATION PHOTOGRAPH

























Annexure -9

COD Letter



Government of India केन्द्रीय विद्युत प्राधिकाण Central Electricity Authority

पश्चिम केनीय किन्नुत त्रविति

भारत सरकार

Western Regional Power Committee

एक -3, एमआयटीसी क्षेत्र, अंधेरी (पूर्व), मुंबई - 93 F-3, MIDC Area, Andheri (East), Mumbai -93

कुष्ण Phone: 022- 28221636; 28200195; 28200194 ; केल Fax : 022-28370193 Website : www.wrpc.gov.in. E-mail: ms-wrpc@nlo.in

NO.WRPC/OPN/MBPMPL-COD/2016/ 83 9 = = Date: 05.05.2016

Τo, Chief Engineer (OM Division), Central Electricity Authority Sewa Bhavan, R.K.Puram. New Delhi – 110066.

Sub: Confirmation of Commercial Date of Operation in respect of Unit No 1(600 MW) of 1260 MW Jhabua Power Limited in Distt Seoni of Madhya Pradesh.

Sir,

M/s. Jhabua Power Limited, vide letter No.JPL/BD/WRPC/!6/1, dated 03.05.2016 have intimated the date of Commercial Operation (COD) of Unit No.1 (600 MW) of 1260 MW Jhabua Power Limited in Distt Scori of Medhya Pradesh with effect from 00:00 hrs of 03.05.2016. In support of this M/s, Jhabua Power Limited in Dist: Seonl of Madhya Pradesh, have submitted certificate from Director in prescribed format (Appendix -VL) as per Regulation - 4 of CERC (Terms & Conditions of Tariff Regulation 2014) also certificate for COD from Independent Engineer viz. Lahmeyer International(India) Pvt Ltd, Gurgosa,, certifying the demonstration of installed capacity through successful trial run of the said unit between 20:00 Hrs of 29th April, 2016 to 20:00 Hrs of 2nd May, 2016 at 95% and above of its rated capacity.

WRLDC Mumbai has furnished the verified data for continuous 72 hrs running of the unit No.1(600 MW) between 20:00 Hrs of 29th April, 2016 to 20:00 Hrs of 2th May, 2016 at 95% and above of its rated capacity.

In view of the above supporting document, all the formalities requisite for declaration of COD have been fulfilled. Therefore it is to confirm that COD of Unit No.1 (600 MW) of 1260 MW Jhabun Power Limited in Distt Seoni of Madhya Pradesh may be taken from 00:00 hrs of 03/05/2016.

Thanking you,

withfully,

जर्म एव औ । २००१ : २००६

ISO: 9001:2008

Member Secretary

Copy to:- 1.

Member (GO&D), CEA, New Delhi.

Chief Engineer (GM), CEA, New Delhi.

Secretary, CEA, New Deihi

Director, Jhabua Power Limited in Distr Seoni of Madhya Pradesh.

Shri Qattu Rambhay, COO, Avantha Power Ltd. Gurgaon.

Annexure -10

Photographs of medical center & sanitation

First Aid Center

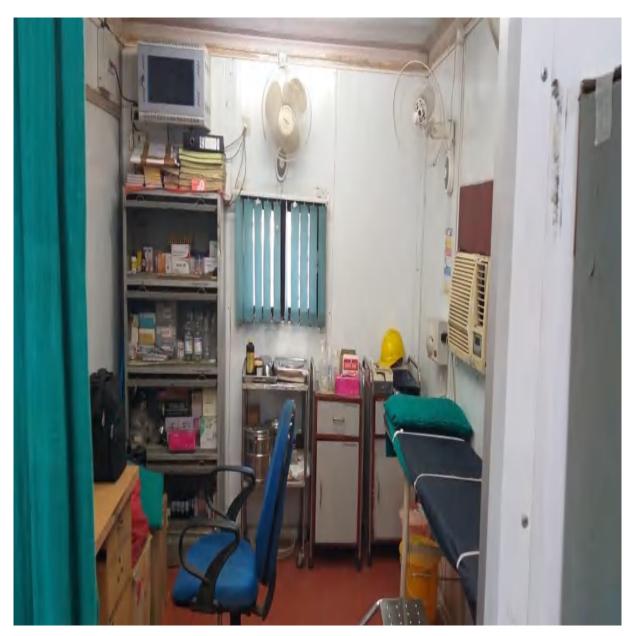


First Aid Center





First Aid Center





Urinals





Urinals





Toilet attached bath rooms



Annexure -11

Noise Level monitoring report



Laboratory: Plot No. 82 A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VELAV01

Name & Address of the Party

M/s Jhabua Power Limited.

P.O. Attaria, Tehall- Ghanagre, Diett-Saghi, Madhya

Predesh

Report No.

: VEL/N/2209261001

Format No

7 6 F-03

Party Reference No :: 4300005298

Reporting Date

: 30/09/2022

- 26/09/2022

Period of Analysis Receipt Date

: 26/09/2022-30/09/2022

Sample Description

General Information

Sampling Location

Sample Collected By

Sampting Equipment used

Instrument Code

Instrument Celibration Status

Meteorological condition during monitoring

Date of Monttoring Time of Monitoring

Amplant Temperature (*D) Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol Sampling Duration

Parameter Required

: AMBIENT NOISE

Project Site (Jhabua Power Plant)

VEL Representative (Mr. Rejesh)

Snund Level Meter VEL/8UM/01

Calibrated

Clear Sky

: 10/09/2022 To 16/08/2022 06:00 AM to 06:00 AM

: Min.23°C, Max.28°C

: Human & Vehicular Activities

Regulatory Requirement

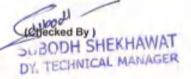
: CPCB

24.0 Hours : As per work order

8.N o.	Parametera	Test Method	Teet Results		
			Day Time (5:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 em)	
1	Leq	\$-9999	62.11	63.78	d8 (A)
2	CPCS Limits in dB(A*) Leq (industrial Area)	-	75	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residentia) Area)	i.e.	56	45	dB (A)
4	CPCB Limito in dB(A*) Leq. (Commercial Area)	**	46	56	dB (A)
5	CPCB Limits in dB(A*) Leq (Silent Zone)		70	40	d8 (A)

Note-"A "deciber" is a unit in which noise is measured.

End of Report



Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/N/Q2

Name & Address of the Party

MVs Jhabua Power Limited

P. O. Attaria, Tahail- Ghansore, Disht-Seoni, Madhya

Report No.

VEL/N/2209261002

Format No. Party Reference No : 4300005298

7.8 F-03

Reporting Date

30/09/2022

Period of Analysis

± 26/09/2022-30/09/2022

Receipt Date

- 28/09/2022

Sample Description

: AMBIENT NOISE

General Information

Bampling Location

Sample Collected By

Sampling Equipment used

Instrument Code

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring Time of Monitoding

Amplent Temperature (°C)

Surrounding Activity Scope of Manitoding

Sampling & Analysis Protocol

Sampling Duration Parameter Regntred Village-Barela

VEL Representative (Mr. Rajesh)

Sound Level Meter

VEL/8LM/02 Calibrated

Clear Sky

: 16/09/2022 To 16/09/2022 06:00 AM to 06:00 AM

Mih.23°C, Max.28°C

Human & Vehicular Activities

Regulatory Requirement

: CPCB 24.0 Nours

: As ber work order

6. N o.	Parametera	rametera Test Method	Test	Test Results		
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 sm)		
1	Leq	18-6960	51.28	42.84	dB (A)	
2	OPCB Lintite In dB(A*) Leq (Industrial Area)		75	70	dB (A)	
3	CPCS Limits In dB(A*) Laq (Residential Area)		96	45	dB (A)	
4	OPCB Limits in dB(A*) Laq (Commercial Area)		96	55	dB (A)	
Б	CPCB Limite In dB(A*) Leq (Sitent Zone)		60	40	d8 (A)	

Note-"A "decibel" la a unit in which noise is measured.

End of Report



Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana). ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/N/03 Name & Address of the Party

: M's Jhabus Power Limited

P.O. Altaria, Tehsil- Ghansore, Distt-Sooni, Madhya

Report No.

: VEL/W2209261003

Format No.

7 8 P-03

Party Reference No.: 4300005298

Reporting Date

: 30/09/2022

Period of Analysis 26/09/2022-30/09/2022

Receipt Date

· 26/09/2022

Sam pla Description

SAMBIENT NOISE

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Code

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring Time of Monitoding

Ambient Temperature (°C)

Surrounding Activity

Scope of Monitoring Sampling & Analysis Protocpi

Sampling Duration Farameter Required Milege-Gorakhpur

VEL Representative (Mr. Rajash)

Sdund Level Meter

: VEUSUM/03

Calibrated

Clear Sky

: 15/09/2022 To 16/09/2022

\$ 06:00 AM to 06:00 AM

Mih.23°C, Max.28°C

Human & Vehiculer Activities

Regulatory Requirement : CPCB

24.0 Hours

As per work order

S.No.	Parameters	ameters Test Method	Test	Test Results		
			Day Time (8:00 am to 10:00 pm)	Night Time (10:00 pm to 8:00 am)		
1	Leq	f S-9989	54.16	43.82	0B (A)	
2	CPCB Limits in dB(A*) Leq (Industrial Area)	a-	76	70	dB (A)	
3	CPCS Limits in dB(A*) Leq (Residential Ares)	44	56	45	dB (A)	
4	CPCB Limits in dB(A*) Leq (Commercial Area)	441	85	55	dB (A)	
5	CPCS Limits in dS(A*) Leq (Silent Zone)	me:	80	40	dB (A)	

Hote-"A "decibe!" is a unit in which noise is measured.

End of Report

SUBODH SHEKHAWAT DY, TECHNICAL MANAGER

Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/N/04

Name & Address of the Party

Ws Jhabus Power Limited

P.O. Attaria, Tehall- Ghansore, Diatt-Secni, Medhye

Report No.

. VEL/N/2200261004

Format No

7.6 F-03

Party Reference No : 4300005298

Reporting Date

; 30/09/2022

Period of Analysis Receipt Date

: 26/09/2022-30/09/2622 29/88/2022

Sample Description

: AMBIENT NOISE

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Code

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoding Time of Monitoring Ambient Temperature (*C)

Surrounding Activity Scope of Monitoring

Sampling & Analysis Protocol Sampling Duration Parameter Required

Village-Binaki

VEL Representative (Mr. Rajesh)

Sound Level Meter

VEL/SLM/01 Calibrated

Clear Sky : 16/09/2022 To 17/09/2022

08:00 AM to 08:00 AM

Min.23°C, Max.28°C

Human & Vehicular Activities Regulatory Requirement

CPCB

24.0 Hours

As par work order

S.No.	Parameters	meters Test Method	Test	Test Results		
			Day Time (6:90 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)		
1	Leq	5-9989	60.65	41.22	dB (A)	
2	CPCB Limite in dB(A*) Leq (industrial Area)	+	75	то	dB (A)	
3	CPCS Limitein dB(A*) Leq (Residential Area)	-	56	45	dB (A)	
4	CPCB Limits in dB(A*) Leq (Commercial Area)	-6	66	55	dB (A)	
8	CPCS Limits in dB(A*) Leq (Bilant Zone)	les.	50	40	dB (A)	

Note-"A "doolbel" is a whit in which noise is measured.

End of Report

decked By

SUBODH SHEKHAWAT DY, TECHNICAL MANAGER

Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/N/06

Name & Address of the Party

M/s Jhabua Power Limited

P.O. Atteria, Tehell- Chansore, Distr-Seeni, Madhya

Report No.

VEL/N/2200261008

Format No.

7.8 F-03

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

Period of Analysia

± 26/09/2022-30/09/2022

Receipt Date

± 26/09/2022

Sample Description

: AMBIENT NOISE

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Code

Instrument Calibration Status

Meteorological coodition during moditoring

Data of Monitoring Time of Monitoring

Amplept Temperature (*C)

Surrounding Activity Scope of Monitoring

Sampling & Analysis Protocol Sampling Duration Perameter Regulred

VIIIage-Panarjhir

VEL Rapresentative (Mr. Rajesh)

Sound Level Meter

VEL/SLM/02

Calibrated

Clear Sky

16/09/2022 To 17/09/2022

: 06:00 AM to 06:00 AM

Min.23°C, Max 20°C

Humeh & Vehicular Activities Regulatory Requirement

CPCB

24.0 Hours

As per work order

S.No.	Parametera	era Test Method	Treat I	Results	Unite
			Day Time (0:00 am to 10:00 pm)	(Niget Time (10:00 pm to 6:00 am)	
1	Leq	I B-9989	52.74	41.28	dB (A)
2	CPCB Limits in dB(A*) Leq (industrial Area)		76	70	dD (A)
3	CPCB Limits in dB(A*) Leq (Residendal Area)	-	66	46	dB (A)
4	CPCB Limits (n dB(A*) Leq (Commercial Area)	-	46	66	dB (A)
5	CPCB Limits (n dB(A*) Leq (Silent Zone)	-	80	40	dB (A)

Note-"A "decibel" is a unit in which noise is mentured

End of Report

wood (Checked By) SUBODH SHEKHAWAT DI. TROUNTCAL MANAGER.

Page No. 1/1





Laboratory: Plot No. 82 A. Sector - 5, (MT Manes at, Gurugram - 12 2051 (Haryana). ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/N/08

Name & Address of the Party

M/s Jhabua Power Limited.

P.O. Attaria, Tehsil- Ghansora, Distt-Seoni, Mechya

Pradesh.

Report No.

3 VEL/N/2209281006

Format No.

- 7.8 F-03 Party Reference No : 4300005298

Reporting Date

Period of Analysis

: 30/09/2022

Receipt Date

: 26/09/2022-30/09/2022 · 26/09/2022

Sample Description

: AMBIENT NOISE

General Information

Sampling Location

: Coal Road

Sample Collected By

: VEL Representative (Mr. Rajesh)

Sampling Equipment used

Sound Level Meler

Instrument Code

VEL/SLM/03

Instrument Calibration Status

Callhreted

Meteotological condition during monitoring

: Clear Sky

Date of Monitoring

: 17/09/2022 To 16/09/2022

Time of Monitoring Ambient Temperature (*C) : 06:00 AM to 08:00 AM Mih.23°C, Mex 23°C

Surrounding Activity

Human & Vehicular Activities

Scope of Manitoring

: Regulatory Requirement

Sampling & Analysis Protocol

CPCB 24.0 Hours

Sampling Duration Parameter Required

As per work order

S.No.	Parauttéberé.	Test Method	Test	Reaulte	Unite
			Day Time (5:00 am to 10:00 pm)	Night Time (10:00 pm to 9:00 ent)	
1	Leq	S-9989	60.32	54.16	dB (A)
2	CPCS Limits in riB(A*) Leg (Industrial Ares)	-	75	70	dB (A)
3	CPCS Limits in riB(A*) Leg (Residential Area)		55	48	dB (A)
4	CPCS Limits in riB(A*) Leg (Commercial Area)	-	55	56	dB (A)
6	CPCB Limits in riB(A*) Leg (Silent Zone)	-	50	40	dB (A)

Note-^A "decibe!" is a unit in which noise is measured.

""End of Report""

(Checked By)

SUBOOH SHEKHAWAT DY, TECHNICAL MANAGER

Page No, 1/1





Laboratory: Plot No. 82A, Sector - S, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Semple Number: VEL/N/07

Name & Address of the Party

: M/e Jnabua Power Limited

P.O. Atlaria, Tehsil- Ohansore, Distt-Seoni, Madhya

Pradesh.

Report No.

: VEL/N/2209261007

Format No.

7.8 F-03

Party Reference No. : 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

: 28/09/2022-30/09/2022

Receipt Date

28/09/2022

Semple Description

: AMBIENT NOISE

General Information

Sampling Location

Sample Cellected By

Sampling Expipment used

Instrument Code

Instrument Calibration Status

Meteorological condition during monitoring Date of Monitoring

Time of Monitoring Ambient Temperature (°C)

Surrounding Activity

Scope of Monitoring

Sampling & Analyste Protocol

Sampling Duration Parameter Required

: Village- Gurlari

VEL Representative (Mr. Rajesh)

Sound Level Meter

VEL/SUM/01

Calibrated

: Clear Sky

: 17/09/2022 To 16/09/2022

: 06:00 AM to 06:00 AM

Min.23°C, Max.20°C

Human & Venicular Activities

Regulatory Requirement

CPĆE

24.0 Hours : As per work order

S.No.	Parameters	Test Method	Test	Results	Unito
			Day Time (0:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	1 3-9900	52.46	41.76	dB (A)
2	CPCB Limits in dB(A*) Leg (Industrial Area)	-	76	70	dB (A)
3	CPCB Limits in dB(A*) beg (Residential Area)	~	88	45	dB (A)
4	CPCB Limits in dB(A*) Leg (Commercial Area)	-	88	55	dB (A)
ij.	CPCB Limits (n dB(A*) Leq (Silent Zone)	-	50	40	dB (A)

Note-"A "deciber" is a unit in which noise is measured.

"End of Report"

(Checked By) SURODH SHEKHAWAT DY, TECHNICAL MANAGER

Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugrom - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/N/08

Name & Address of the Party

Wa Jhabua Power Limited.

P.O. Alteria, Tehail- Ghansore, Disht-Seohi, Madhya

Pradeah.

Report No.

: VEL/N/2209261008

Format No.

7 8 F-03

Party Reference No : 4300005298 Reporting Data

: 30/09/2022

Partod of Analysis 26/09/2022-30/09/2022

Receipt Outs

· 26/09/2022

Sam ple Heacription

: AMBIENT NOISE

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Intebrument Code

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring Ambient Temperature (°C)

Surrounding Astivity

Scope of Monitoring

Sampling & Analysic Protocol

Sampling Duration Parameter Required

Village- Dola

VEL Representative (Mr. Rajesh)

Sound Level Mater

VEL/SUM/02

Calibrated

Clear \$ky

: 17/09/2022 To 18/09/2022

08:00 AM to 06:00 AM

Min.23°C, Max.29°C

Human & Vehicular Activities Regulatory Requirement

24.0 Hours

As per work order

5.No.	Parametera	abera Test Method	Test	Test Results		
			Day Time (8:90 am to 10:00 pm)	Night fime (10:00 pm to 6:00 am)		
1	Leq	1.9-6089	51.62	40.89	dB (A)	
2	CPCB Limits in dB(A*) Leq (industrial Area)	-	75	70	dB (A)	
3	CPCB Limits (n riB(A*) Leq (Residential Area)	-	55	45	dB (A)	
4	CPCS Limits to dB(A*) Leq (Commercial Area)	-	55	56	dB (A)	
Б	CPCS Limits in dB(A*) Leq (Silent Zone)	-	50	40	dB (A)	

Note-"A "decibel" is a unit in which noise is measured.

"End of Report"



Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, (MT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number :

VEL MINO

Name & Address of the Party

: M/s Jhabus Power Limited

P.O. Atteria, Tehall-Ghansore, Distr-Seoni, Madhya.

Report No.

VEL/N/2209261009

Format No

7.8 F-83

Party Reference No.

: 4300005298

Reporting Date Period of Analysis : 30/08/2022

£ 25/09/2022-30/09/2022

Receipt Date

25/09/2022

Sample Description

: AMBIENT NOISE

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Code

Instrument Calibration Status

Materological condition during monitoring

Data of Monitoring Time of Monitoring

Ambient Temperature (°C) Surrounding Activity

Scope of Monitoring

Sampling & Analysis Frotocol

Sempling Duration Parameter Required

Village-Durjanpur

VEL Representative (Mr. Rajesh)

Sound Level Meter VEL/SLM/03

Calibrated

Clear Sky

16/09/2022 To 17/09/2022

08:00 AM to 08:88 AM

Min.23°C, Max.29°C

Human & Venicular Activities Regulatory Requirement

CPCB

24.0 Hours

As par work order

\$. No.	Parameters	rameters Test Method	Test I	Test Require		
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 ent)		
1	Lag	I 8-9989	50.38	39.48	dB (A)	
2	CPCS Limits in dE(A*) Leq (Industrial Area)	**	76	70	dB (A)	
3	CPCS Limits to dB(A*) Leq (Residential Area)		56	45	dB (A)	
4	CPCB Limits in dB(A*) Leq (Commercial Area)	**	5.6	56	dB (A)	
5	CPCB Limits in dB(A*) Leq (Silent Zone)		50	40	dB (A)	

Note-"A "decibel" is a unit in which noise is measured.

End of Report





Page No. 1/1



Annexure -12

Ambient Air Quality monitoring report



Laboratory; Plot No., 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/A/01

Name & Address of the Party

We Jhabus Power Limited.

P.O. Attaria, Tohari- Ghansore, Dieti-Seoni, Madhys.

Report No.

VEL/A/2209261001.

Format No

7.8 F-03

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

Receipt Date

Period of Analysis 26/09/2022-30/09/2022 25/09/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Code Instrument Calibration Status

Meleorological condition during mobitoring

Date of Monitoring

Time of Monitoring

Ambient Temperature (*C) Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol Sampling Duration

Parameter Required

Project Site (Jhabua Power Plant)

VEL Representative (Mr. Rajesh)

RIDS/FPS

VEL/RDS/01 & FPS/07

Calibrated

: Clear Sky

15/09/2022 To 15/09/2022

10:00 AM to 10:00 AM : Min.23°C, Max.26°C

Humari & Vehicular Activities

Regulatory Regulrement

: 15:5182

24.0 Hours

As per work breen

B.No.	Parameters	Test Method	Results	Units	Limit sa pdr CPCB
1	Particulate Matter (as PM -10)	IS:6182 (P-23), Gravimetric Method, RA:2005	64.56	h8\w ₂	100
2	Particulate Matter (as PM - 2.6)	IS:6182 (P-24) : 2019	36,34	µg/m²	60
3	Ntrogen Dioxides (as ND2)	IS:5182 (P-5), Jacob & Hochhelesy, RA:2003	18.23	hô _t m _s	60
4	Sulphur Dioxide (as SO2)	15:5182 (P-2), Modified West ariri Gaeke, RA:2012	T.61	hB _i us,	80

^{*}BLQ-Balow Limit et Quantification, **LOQ - Limit of Quantification.

""End of Report""



Page No. 1/1





Laboratory: Pjot No. 82A, Sector - 5, JMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/A/01

Name & Address of the Party

M/s Jhabua Power Limited

P.O. Atharia, Tehall- Gharlacre, Diatt-Seoni, Medhya

Report No.

VEL/A/2209261001/N

Format No.

- 7.8 F-03

Reporting Date

Party Reference No : 4300005298

Period of Analysis

: 30/09/2022

; 26/09/2022-30/09/2022

Receipt Date

· 26/09/2022

sample Description

: AMBIENT AIR

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Cdde

Instrument Calibration Status

Mateorotogical condition during monitoring

Date of Monitoring

Time of Monitoring

Ambient Temperature (°C) Surroudding Activity

Scope of Monitoring

Sampling & Analysia Protocpi Sampling Durution

Parameter Required

Project Site (Jhabus Power Ptent)

VEL Representative (Mr. Rajesh)

ROS/FPS

VEL/RDS/01 & FPS/07

Calibrated

Clear Sky

15/09/2022 To 16/09/2022 10:00 AM to 14:00 AM

: Min.23°C, Max.26°C

Human & Vehicular Activities

Regulatory Requirement

: 18 : 5182

24 0 Hours

As per work order

S.No.	Parameters	Test Methold	Results	Units	Limit as per CPC8
1	Mercury (Hg)	VEL/ENV/STP/129,haure No01,haure Date-01/11/2021:2021	*BLQ(LOQ-1.0)	ng/m³	-

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

"End of Report"





Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/A/02

Name & Address of the Party

Ws Jhahua Power Limited.

P.O. Attaria, Tehsil- Ghansore, Distt-Seoni, Madhysi

Report No.

: VEL/A/2209261002

Format No. Party Reference No : 4300005298

: 7.8 F-03

Reporting Date

: 30/09/2022

Period of Analysis

: 26/09/2022-30/09/2022

Receipt Date

26/09/2022

Bample Description

: AMBIENT AIR

General Information

Bampling Location

Bample Collected By

Bampting Equipment used

Instrument Code

Instrument Calibration Status Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Amplent Temperature (*C)

Surrounding Activity

Scope of Monitoring Sampling & Analysia Protocol

Sampling Duration Parameter Required Village-Berele

VEL Representative (Mr. Rajash)

RD9/FPS

VEL/RDS/02 & FPS/04

Calibrated

Clear Sky

16/09/2022 To 16/08/2022

10:20 AM to 10:20 AM

Min.23°C, Max.28°C

Human & Vehicular Activities

Regulatory Requirement

15:5182

24.0 Hours

: As per work order

8.No.	Parameters	Test Mathod	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2008	50.51	µg/m³	100
2	Particulate Matter (es PM - 2.5)	IS:5182 (P-24) ; 2019	32.43	hB ₁ m _p	00
3	Nitrogen Oloxides (as HO2)	18:5182 (P-6), Jacob & Hochheiser, RA:2008	20.33	hājus	80
4	Sulphür Dioxide (sa SOZ)	IS:5162 (P-2), Modified West and Gaeke, RA:2012	9.64	hā/m,	80

^{*}BLQ-Below Limit of Guentification, **LOQ - Limit of Quentification.

End of Report





Page No. 1/1





Laboratory: Plot No., 82 A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Humber: VEL/A/02

Name & Address of the Party

beternil rewo Paudent, s'tal 🖫

P.O. Altaria, Tehsa-Ghansora, Distt-Seoni, Madhyd.

Report No.

: VEL/A/2209261002/N

Format No

: 78 F-03

Party Reference No : 4300005290

Reporting Date

: 30/09/2022

Period of Analysia : 28/09/2022-30/09/2022

Receipt Date

- 26/08/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Sample Collected By

Sampling Egolpment used

(netrument Code

Instrument Calibration Status

Meteorological condition during modificing

Date of Monitoring

Time of Monitoring

Ambient Temperature (*C)

Surrounding Activity

Scope of Monitoring Sampling & Analysis Protocol

Sampling Duration Parameter Regolred Village-Barela

VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/RDS/02 & FPS/04

Calibrated

Ctear Sky

15/09/2022 To 16/09/2022

10:20 AM to 10:20 AM

: Min.23°C, Max.26°C

Human & Vehicular Activities

Regulatory Regularment

tS:5182

24.0 Hours

As per work order

8.No.	Paramétéré	Test Method	Results	Units	Limit sa per CPCB
1	Mercury (Hg)	VEL/ENV/STP/129,Issue No01,Jesue Cate-01/11/2021:2021	"BLQ(L0Q-1.0)	ngint"	

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

"End of Report"

conecked By)

SUBODH SHEKHAWAT DY. TECHNICAL MANAGER

Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122 051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/A/03

Name & Address of the Party

: M/s Jhabua Power Limited

P.O. Attada, Tehell- Ghaneora, Dieti-Seoni, Madhya.

Pradoeh.

Report No.

: VEL/A/2209261003

Format No

+ 7.8 F-08

Party Reference No :: 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

: 26/09/2022-30/00/2022

Receipt Date

: 30/09/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Village-Gorakhpur

Sample Collected By

VEL Representative (Mr. Rejesh)

Sampling Equipment used

Combo Sampler VEL/Combo/42

Instrument Code

Instrument Calibration Status

Callbrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

: 16/09/2022 To 16/09/2022

Time of Monitoring Ambient Temperature (°C) : 10-45 AM to 10-45 AM Min. 23°C, Max. 28°C

Surrounding Activity

Human & Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Sampling & Analysis Protocol

F3:5182

Sampling Duration Parameter Required 24.0 Hours As per work order

S.No.	Parameters	Test Method	Results	Unite	Umit as per CPCB
1	Particulate Matter (se PM -10)	IS:6182 (P-23), Gravimetric Method, RA:2006	55.49	hāņu,	100
2	Particulate Matter (se PM - 2.8)	IS:5182 (P-24) : 2019	34.72	hāyus,	60
3	Nitrogen Dioxides (ea NO2)	15:5162 (P-5), Jacob & Hochhelser, RA:2006	16.82	µg/m²	60
4	Sulphur Dioxide (ea SO2)	18:5182 (P-2), Modified West and Gaske, RA:2012	6.09	pg/m²	80

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

""End of Report""





Page No. 1/1





Laboratory: Plot No. 82 A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) 150 9001 | 150 14001 | 150 45001



Test Report

Sample Number: YEL/A/03

Name & Address of the Party

: M/s Jhabua Power Limited

P.O. Attana, Tehell-Ghanapre, Distr-Secni, Madnya

Pradesh.

Report No.

: YEL/A/2209261003/N

Format No

7.8 F-08

Party Reference No : 4300006298

Reporting Date Period of Analysis : 26/09/2022-30/09/2022

: 30/09/2022

Receipt Date

· 26/09/2022

Sample Description

AMBIENT AIR

General Information

Sampling Location

Village-Gorakhpur

Sample Collected By

: VEL Representative (Mr. Rejesh)

Sampling Equipment used

Combo Sampler

Instrument Code

VEL/Compe/42

Instrument Calibration Status

: Caliorated

Meteorological condition during monitoring

Clear Sky

Date of Monitering

: 15/09/2022 To 16/09/2022

Time of Monitoring

10:45 AM to 10:45 AM

Ambient Temperature (°C)

: Me1.23°C, Max.28°D

Surrounding Activity

Humah & Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Sampling & Analysia Protocol

: IS:5162

Sampling Duration

24.0 Hours

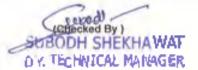
Perameter Required

As per work order

a.No.	Parameters	Test Method	Results	Uplis	Limit as per CPCB
1	Mercury (Hg)	VEL/ENV/STP/129,Issue No01,Issue Date-01/11/2021:2021	"BLQ("LOQ-1.0)	LiB)Wig	**

^{*}DLQ-Below Limit of Quantification, *LOQ-Limit of Quantification.

End of Report





Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana). ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/A/04

Name & Address of the Party

: M's Jhabus Power Limited.

P.O. Altana, Tehall-Ghaneore, Distt-Seoni, Madhys

Predesh:

VEL/A/2209261004

Formet No

Report No.

7 8 F-83

Party Reference No : 4300005298

Reporting Date Period of Analysis 25/10/2022-30/09/2022

: 30/08/2022

Receipt Date

28/09/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Village-Binelid

Sample Collected By

VEL Representative (Mr. Rejeeh)

Sampling Equipment used

metrument Code

ROS/FPS

Instrument Calibration Status

Galibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

: 16/09/2022 To 17/09/2022

VEL/RDS/01 & FPS/07

Time of Monitoring

10:30 AM to 10:30 AM

Ambient Temperature (*C)

Mih.23°C, Max.28°C Human & Vehicular Activities

Surrounding Activity Scone of Monitoring

Regulatory Requirement

Sampling & Analysis Protoopt Sampling Duration

IS:5t82 24.0 Hours

Parameter Required

As per work order

9.No.	Parameters	Test Method	Results	Units	Umit as per CPCB
1	Particulate Matter (as FM -10)	IS:5182 (P-25), Gravimetric Method, RA:2006	62.01	NB/W _a	100
2	Particulate Matter (as PM - 2.5)	(9:5182 (P-24) : 2019	38.25	µ9/m³	30
3	Nitrogen Dioxides (as NO2)	18:5192 (P-8), Jacob & Hockhelser, RA:2006	21.73	hã/m,	80
4	Sulphur Dioxide (as 902)	IS:8162 (P-2), Modified West and Gadko, RA:2012	18.65	µg/m²	60

^{*}BLQ-Below Limit of Quantification, **LOO - Limit of Quantification.

""End of Report""

Checked By) 50800H SHEKHAWAT DY. TECHNICAL MANAGER

Page No. 1/1





Laboratory; Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/A/04

Name & Address of the Party

M/s Jhabua Power Umited

P.O. Atteria, Tehsil- Ghahsore, Disti-Seoni, Madhya

Report No.

VELJA/2209281004/N

Format No.

7 8 F-03

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

Partod of Analysis : 28/10/2022-30/00/2022

Receipt Date

26/09/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Village-Binaiki

Sample Collected By

VEL Representative (Mr. Rajesh)

Sampting Equipment used

Instrument Code

RDS/FPS

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Ambient Temperatute (*C)

Surrounding Activity Scope of Monitoring

Sempling & Analysia Protocol

Sampling Duration Parameter Required

VEL/RDS/01 & FPS/07

Calibrated

: Glear Sky

18/09/2022 To 17/09/2022

10:30 AM to 10:30 AM

: Mis.23°C, Max.28°C

Humad & Vehicular Activities

Regulatory Requirement

15:5182

24.0 Hours

As per work order

S.Na.	Parameters	Test Method	Results	Dnita	Limit as per CPCB
1	Mercury (Hg)	VEL/ENV/STP/129,leaue No01,leaue Date-01/11/2021:2021	*BLQ(**LOQ-1.0)	ng/m²	

^{*}BLQ-Below Limit of Quantification, **LOQ - Limit of Quantification.

-6

""End of Report""





Page No. 1/1



Laboratory: Plot No. 82A, Sector - 5, (MT Manesar, Gurugram - 1;2051 (Haryana) (\$0 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/A/05

Name & Address of the Party

: M/a Jhahua Power Limited

P C- Altaria, Tehsil- Ghancere, Dieti-Seoni, Madhya

Pradeeh

Report No.

: VEL/A/2209261005

Format No.

7.8 F-03

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

Period of Ahalysis Receipt Date

: 26/09/2022-30/09/2022 1 26/09/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Village-Panarihir

Sample Collected By

VEL Representative (Mr. Rejech)

Sampling Equipment used

Instrument Code

RDS/FFS VEL/RDS/02 & FP8/04

Instrument Calibration Status

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Montloning

: 16/09/2022 Te 17/09/2022 11:00 AM to 11:00 AM

Time of Monitoring Ampient Temperature (°C)

: Min.23°C, Max.28°C

Surrounding Activity

Human & Vehicular Activities

Scope of Monitoring

: Regulatory Regularment

Sampling & Analysis Protocol Sampling Duradon

\$ (\$:6182 24 0 Hours

Parameter Required

As per work order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PR -10)	IS:8182 (P-23), Gravimetric Method RA:2006	66.23	hôyus	100
2	Particulate Matter (as PM - 2.8)	IS:8182 (P-24) : 2018	39.50	pg/m²	80
3	Hitrogen Dioxides (sa NO2)	i8:5182 (P-8), Jacob & Houhhelser, RA:2006	22.43	hōtu.,	60
4	Suluhur Dioxide-(ua SQ2)	f5:5182 (P-2), Modified West and Gaeke, RA:2012	10.13	hðim,	80

"BLQ-Balow Limit of Quantification, ""LOQ - Limit of Quantification.

""End of Report""





Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gorugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/A/05

Name & Address of the Party

Praclesh.

M/s Jhabua Power Limited.

P.O. Atlane, Teheji- Ghansore, Distt-Seom, Madhya.

Party Reference No :: 4300005298 Reporting Date

: 30/08/2022

Period of Analysis : 26/09/2022-30/09/2022

VEL/A/2209281005/N

Receipt Date

Report No.

Pormat No.

· 26/09/2022

7 B F-03

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Codo

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring Time of Monitoring

Ambient Temperature (°C)

Surrounding Activity Scope of Monitoring

Sampling & Analysis Protocol Sampling Duration

Parameter Required

Village-Panarihir

VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/RDS/02 & EPS/04

Callbreted

Clear Sky

16/08/2022 To 17/09/2022

11:00 AM to 11:00 AM : Min.23°C, Mex.28°C

Humah & Vehicular Activities Regulatory Requirement

IS: 5182

24.0 Hours

As per work order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Mercury (Hg)	VEL/ENV/STP/128,issue No01,issue Date-01/11/2021;2021	*BLQ(**LOQ-1.0)	ng/m²	-

^{*}BLQ-Below Limit of Quantification, **LOQ - Limit of Quantification.

"Find of Report"



SUBODH SHEKHAWAT DY, TECHNICAL MANAGER



Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/A/06

Name & Address of the Party :: M/s Jhabus Power Limited

P.O- Attaria, Tehsil- Ghansore, Diatt-Seoni, Medhye.

Pradeshi

Report No.

: VEL/A/2209281888

Formal No Party Reference No :: 4300006298

7 8 F-03

Reporting Date Period of Analysis : 30/09/2022

: 26/09/2022-30/09/2022

Receipt Date

28/08/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Code

Instrument Calibration Status Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring Ambient Temperature (*C)

Surrounding Activity

Scope of Monitoring Sampling & Analysis Protocol

Sampling Duration Parameter Required Coal Road

VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/RDS/02 & FPS/04

Calibrated

Clear Sky

: 17/09/2022 To 18/09/2022

11:40 AM to 11:40 AM

Min.23°C, Max.28°C

Human & Vehicular Activities

Regulatory Requirement 18:5182

24 0 Hours

As per work order.

S.No.	Parameters	Test Method	Results	Units	Umit as per GPCB
1	Perticulate Metter (es PM -10)	19:6/162 (P-23), Grevimetric Method, RA:2006	53.66	hØ ₁ m,	100
2	Perticulate Metter (as PM - 2.5)	9:5182 (P-24) : 2019	32.01	hô _l m,	60
3	Nitrogen Diozides (as NO2)	IS:6182 (P-6), Jacob & Hookheiser, RA:2006	17.53	µg/m²	80
4	Sulphur Dioxide (4s SO2)	13:5182 (P-2), Monified West and Gaste, RA:2012	8.69	µg/m²	80

'BLQ-Balow Limit of Quantification, "LOQ - Limit of Quantification.

End of Report





Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, JMT Manesar, Gurugram - 12 2051 (Haryana) (\$0 9001 | (\$0 14001 | (\$0 45001



Test Report

Sample Number: VEL/A/06

Name & Address of the Party

We Jhebua Power Limited.

P O- Attana, Tehsil- Ghansore, Disti-Seohi, Madhya

Pradesh

Repon No.

:: VEL/A/2200261006/N

Format No.

7.8 F-03

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

Period of Analysis Receipt Date

28/09/2022-30/09/2022 26/09/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Sampin Collected By

Sampling Equipment used

Instrument Code

Instrument Calibration Status

Meteorological condition dudog monitoring

Date of Monitoring Time of Monitoring

Ampieht Temperature (°C)

Surrounding Activity

Scope of Monitoring Sampling & Analysis Protocof

Sampling Duration Paramatar Regulred

Coal Road

VEL Representative (Mr. Rajesh)

RDS/FPS

VEURDS/02 & EPS/04

Calibrated

Clear Sky

17/09/2022 To 18/09/2022 11:40 AM to 11:40 AM

Min.23°C, Max.28°C

Human & Vehicular Activities

Regulatory Requirement

IS: 5182

24.0 Hours

As per work order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Mencury (Hg)	VEL/ENV/9TP/128,leeue No01,lssue Date-01/11/2021:2021	*BLQ(**LQQ-1.0)	ng/m³	-

^{*}BLQ-Below Limit of Quantification, **LOQ - Limit of Quantification

End of Report



SUBODH SHEKHAWAT DY, TECHNICAL MANAGER



Page No. 1/1





Laboratory: Plot No., 82 A, Sector - 5, IMT Manesar, Gurugram - 1220\$1 (Haryana) (SO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VELJA/07

Name & Address of the Party

: M/s Jhabus Power Limited.

P.O. Attaria, Tehsil- Ghansore, Disti-Seoni, Madhya.

Pradesh.

Report No.

: VEL/A/2209261007

Format No.

7.8 F-83

Party Reference No : 4300006298

Reporting Date

: 30/09/2022

Receipt Date

Period of Analysis : 26/09/2022-30/09/2022 26/09/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Village-Guneri

Sample Collected By

VEL Representative (Mr. Rajesh)

Sampling Equipment used

RD8/FP8

instrument Dode

VEL/RDS/01 & EPS/07

Instrument Calibration Status

Cellbrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

17/08/2022 To 18/08/2022

Time of MonRoring

: 11:15 AM to 11:15 AM

Ambient Temporature (°C)

: Min.23°C, Max.28°C

Surroducking Activity

Human & Vehicular Activities Regulatory Requirement

Scope of Monitoring Sampling & Analysis Protocol

18:5162

Sampling Duration

24.0 Hours

Parameter Required

As por work order

8.No.	Parameters	Test Methori	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5162 (P-23), Gravimetric Method, RA:2006	60.41	(hQ/M²	100
2	Particulate Matter (as PM - 2.5)	IS:6162 (P-24) : 2019	33.26	h9/m _a	60
3	Nitrogen Diexides (as NO2)	18:5182 (P-8), Jacob & Hochhelser, RA:2008	10.23	hā _j m,	80
4	Sulpriur Dioxine (as 902)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	9.13	hā _j m,	80

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

"End of Report"

(checked By)

SUBODH SHEKHAWAT DY, TECHNICAL MANAGER



Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, JMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/A/07

Name & Address of the Party

: M/s Jhabus Power Limited

P.O. Attaria, Tehsil- Ghansore, Diatt-Seoni, Madhya

Pradesh.

Report No.

VEL/A/2209261007/N

Format No.

7.8 F-03

Party Rafarence No ± 4300006288

Reporting Date

± 30/09/2022

Period of Analysis : 28/09/2022-30/09/2022

Receipt Date

28/08/2022

Sample Description

AMBIENT AIR

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Isatrument Code

Instrument Calibration Status Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Ambient Temperature (*C)

Surrounding Activity

Scope of Monitoring

Santpling & Analysis Protocol

Sampling Duration Parameter Regulred Village-Guiteri

VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/R08/01 & FFS/07

: Calibrated

Clear Sky

: 17/09/2022 To 18/09/2022

11:15 AM to 11:15 AM

: Min_23°C, Max 26°C

: Human & Vahloular Activities

Regulatory Requirement.

18:5182

24.0 Hours

: As per work order

Ş.Na.	Parameters	Test Method	Results	Upile	Limit as per CPCB
1	Mercury (Hg)	VEL/ENV/STP/129,isaue No01,isaue Date-01/11/2021:2021	*BLQ(**L0Q-1.0)	ng/m²	**

^{*}BLQ-Below Limit of Quantification, **LOQ - Limit of Quantification.

End of Report

tellecked By)

SUBODH SHEKHAWAT DY, TECHNICAL MANAGER



Page No. 1/1





[®]Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/A/08

Name & Address of the Party

: M/s Jhabus Power Limited

P.O. Attaria, Tehsil- Ghansone, Distt-Seont, Medhya.

Report No.

: VEL/A/2209261008

Format No

7.8 F-03

Party Reference No.

: 4300005298

Reporting Data Period of Analysia : 30/09/2022

: 26/09/2022-30/00/2022

Receipt Data

28/09/2022

Nample Description

: AMBIENT AIR

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Code

(netrument Calibration Status

Mateorological condition during monitoring

Date of Monitodog

Time of Monitoring

Ampient Temperature (°C)

Surrounding Activity Scope at Monitodog

Sampling & Analysis Protocol Sampling Duretion

Parameter Required

Village-Dola

VEL Representative (Mr. Rajech)

Combo Sampler

VEL/Comba/42

Cationated

Clear Sky

17/09/2022 To 18/09/2022

11:50 AM to 11:50 AM

Miri.231C, Max.261C

Human & Vehicular Activities

Regulatory Requirement

IS:5182

24.0 Hours

As per work order

8.No.	Parameters	Test Method	Flesuits	Unita	Umit as per CPCB
1	Particulate Matter (as PM -10)	IS:6162 (P-23), Gravimetric Method, RA:2006	64.55	h8 ₁ m ₂	100
2	Particulate Matter (as PM - 2.6)	18:5162 (P-24) : 2019	35.76	ир/т а	00
3	Nitrogen Dicoddes (as NO2)	I5:8132 (P-6), Jacob & Hochhelser, RA:2005	23.14	₩ Э (ш,	80
4	Sulphur Dioxide (as \$02)	IS:5182 (P-2), Modified West and Geeke, RA:2012	11.18	pg/m²	90

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

End of Report





Page No. 1/1





Laboratory: Plot No. 82A, Sector - S, (MT Manesar, Gurugram - 12 2051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/A/08

Name & Address of the Party

M/s Jhabua Power Limited

P.O. Altaria, Tehsil-Ghansore, Dish-Sedni, Madhva

Report No.

: VEL/A/2209261098/N

Format No. Party Reference No : 4390005293

± 7.0 F-03

Reporting Date

: 30A09V2022

Period of Analysis : 28/09/2022-30/09/2022 Raceipt Date

26/09/2022

Sample Description

AMBIENT AIR

General Information

Sampling Location V#lage-Dola

Sample Collected By VEL Representative (Mr. Rejesh)

Sampling Equipment used Combo Samolor Instrument Code VEL/Combe/42 Instrument Calibration Status Calibrated Meteorological condition during monitoring Clear Sky

Date of Monitoring : 17/09/2022 To.18/09/2022 Time of Monitoring 11:60 AM to 11:69 AM Ambient Temperature (°C) Min.23°C, Max.28°C Surrounding Activity : Human & Vehicular Activities

: Regulatory Requirement Scope of Monitoring Sampling & Analysis Protocol IS: 5182

Sampling Duration 24.0 Hours Parameter Regulard As per work order

S.No.	Parameters	Test Method	Results	Units	Limit as por CPCB	
1	Mercury (Hg)	VEL/ENV/STP/129,leaue No01,198ue Date-01/11/2021:2021	*BLQ(**LOQ-1.0)	ng/mª	-	

^{*}BLQ-Below Limit of Quantification, **LOQ - Limit of Quantifidation.

End of Report









Laboratory; Plot No. 82A, Sector - 5, (MT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL/A/09

Name & Address of the Party

M/s Jhabua Power Limited

P O- Atlaria, Tehsil- Ghansore, Distt-Seoni, Medhya

Report No.

VEL/A/2209261009

Format No.

7.8 F-03

Party Reference No. : 4300005298

Reporting Date

: 30/09/2022

Period of Analysis 26/09/2022-30/09/2022

Receipt Date

- 26/09/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Code

instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Ambiapi Temperature (°C)

Surrounding Activity

Scope of Monitoding Sampling & Analysia Protocol

Sampling Duration Parameter Required

Village-Durjanpur

VEL Representative (Mr. Rajesh)

RDS/FFS

VEL/RDS/FPS/02

Calibrated

Clear Sky

17/09/2022 To 18/09/2022

12:00 PM to 12:00 PM

: Min.23°C, Max.29°C

Tiumen & Vehicular Activities

Regulatory Regularment

1\$:5182

24 0 Hou/s

As per work order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB	
1	Particulate Malber (as PM -10)	18:5182 (P-23), Gravimetric Method. RA:2006	92.37	µg/m²	100	
2 Particulate Matter (se PM - 2.8)		18:8182 (P-24) : 2015	38.59	pg/m²	60	
3	Nitrogen Dioxides (as NO2)	15:5162 (P-6), Jacob & Tlochhelser, RA:2006	21.73	hā,w _y	80	
4	Sulphur Dioxide (as SO2)	IS:6182 (P-2), Modified West and Geeke, PA:2012	8.12	MB/m ₂	80	

[&]quot;BLQ-Below Limit of Quantification, "LOQ - Limit of Quantification,

"End of Report"

Checked By SUBODH SHEKHAWAT DY, TECHNICAL MANAGER Prised 5

Page No. 1/1





Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001



Test Report

Sample Number: VEL/A/09 Name & Address of the Party

M/s Jhabus Power Limited.

P.O. Atlaria, Tehsil- Ghansore, Distt-Seoni, Madhya

Pradesh:

Report No.

: VEL/A/2209261009/N

Format No Party Reference No : 4300005298

, 7,8 F-03

Reporting Date

: 30/09/2022

Period of Analysis

: 26/09/2022-30/09/2022

Receipt Date

· 26/09/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

VIIIage-Durjenpur

Sample Collected By

VEL Representative (Mr. Rajesh)

Sampling Equipment used

RDS/FPS

Instrument Cdda

VEL/RDS/FP5/02

Instrument Calibration Status

Calibrated

Metaorological condition during monitoring

Date of Monitoring

Clear Sky : 17/09/2822 To 18/09/2022

Time of Monitoring

12:00 PM to 12:00 PM

Ambient Temperature (°C)

Min.23°C, Max.29°C

Surrounding Activity

Human & Vehicular Activities

Scope of Monitoring

Regulatory Regularment

Sampling & Analysis Protocol

(\$:5182

Sampling Duration

24.0 Hours

Parameter Required

As ber work order

S.No.	Perameters	Teet Methdd —	Results	Urills	Limit as per CPCB
1	Mercury (Hg)	VEL/ENV/8TP/129,baua No01,lssue Date-04/ \1/2021:2921	"BLQ("LQQ-1.0)	ng/m*	

^{*}BLQ-Below Limit of Quantification, **LGQ - Limit of Quantification.

End of Report





Page No. 1/1



Annexure -13

Expenditure details under CSR

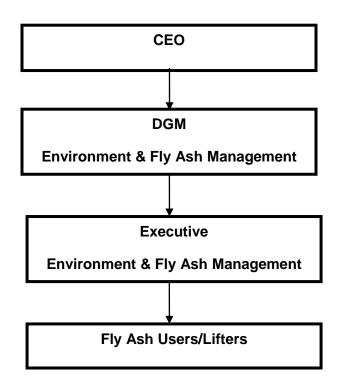
ANNEXURE-13

JHABUA POWER LTD. DETAILS OF EXPANSES DONE UNDER CSR SINCE INCEPTION TO SEPTEMBER 2022 (In Crore)														
	Sr No	Activity	2010-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	Total in Cr
	RECURRING EXPENDITURE													
Α	1	Skill development, Education and Women empowerment	2.30	0.72	0.45	0.36	0.09	0.09	0.26	0.29	0.32	0.25	0.18	5.31
	2	Agriculture and agro based livelihood	2.31	1.22	0.16	0.42	0.04	0.06	0.27	0.21	0.27	0.25	0.06	5.27
	3	Maternal and child health care project	1.31	0.56	0.13	0.34	0.10	0.13	0.13	0.00	0.00	0.00	0.00	2.71
	4	Rural Civil infrastruture development	1.44	2.94	0.28	0.00	0.02	0.04	5.08	9.79	0.01	0.01	0.00	19.61
		Total	7.36	5.44	1.02	1.12	0.25	0.32	5.74	10.29	0.60	0.51	0.24	32.89
	Recurring expanses as per EC of MoEF (2010-2022)				Rs. 2.5 crore per annum x 12 year								30.00	
В	One time capital expanses as per Environmental Clearance in Crore											12.00		
	Expanses done under one time capital expanses in crore											22.00		
Total CSR expenditure as per E.C. till year 2022 in Cr. (A+ B)									42.00					
Total CSR Expenditure done by JPL till September 2022									54.89					

Annexure -14

Details of Environment Management cell

ENVIRONMENT MANAGEMENT CELL



Sr. No	NAME	QUALIFICATION	DESIGNATION
1	Mr. Anil Kumar Sharma		Chief Executive Officer
2	Mr. Anoop Kumar Srivastava	M.Sc. Environment P.G. Diploma Industrial Safety	DGM (Environment & Ash Management)

Receipts of last compliance report submission

Ancop srivestave

From: Andop srivastava Sent:

28 May 2022 09:46 'yogendra78@nic.in' To: Cc: 'sudheor.ch@gov.in'

Submission of Six Monthly Compliance Report - 1x600 MW Coal Based Thermal Subject:

Power Plant, Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.-Seoni, Madhya.

Attachments: MoEF New Delhi.pdf

Dear Sir,

Please find attached the Six Monthly Compliance Report (October' 2021 to March' 2022) In fulfilment of conditions stipulated in the Environment Clearance (letter issued by MoEF, New Delhi and referenced above) fer 1x600 MW Coal based Thermai Power Plant at Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.- Seoni, Madhya Pradesh of M/s Jhabua Power Ltd. Sofi. copy is uploaded on MoEF & CC weo site-Parivesb.

Kindly acknowledge.

Regards,

For Inabua Power Ltd.

Angop Kr. Srivastava

Enc.: Six Monthly Compliance Report (October' 2021 to March' 2022)



May 27, 2022

To,

The Oirector,

Ministry of Environment, Forests & Climate Change 3rd Floor, Vayu Block, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi-110003

Sub.: Submission of Six Monthly Compliance Report - 1x600 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tobsil-Ghansore, Distt.-Seoni, Madhya Pradesh.

Ref.: EC Letter No.: J-13012/105/2000-IA-II (T) dated 17th February, 2010 & Corrigendum dated 22th December, 2010.

Dear Sir.

Please find attached the **Six Monthly Compliance Report (October' 2021 to March' 2022)** In fulfilment of conditions stipulated in the Environment Clearance (letter issued by MoEF, New Delhi and referenced above) for 1x600 MW Coal based Thermal Power Plant at Villages- Baraia & Gorakpur, Tehsii- Ghansore, Distt.-Seoni, Madhya Pradesh of M/s Jhabua Power Ltd. 6oft copy is uploaded on MoEF & CC web site-Partvesh.

Kindly acknowledge.

Regards,

For Jbehue Power Ltd.

Authorized Signatory

Enc.: Six Monthly Coropliance Report (Octobor' 2021 to March' 2022)

Jhabua Power Limited

(CIN: U48105WB1995PLC068816)

Village Barela, PO Atturia, Tehsil Ghansore, District Scont-480997, Madinya Pradesh, India

Registered Office : Maximut House, 7th Floor, 168, OC Gangufy Saran), Kolkate-760 020, West Bengal, India Corporate Office : Unit No.-367, 3rd Floor, ABW Tower, (Near IFFCO Chowk) M.G. Road, Gurugram - Pin-122062 (Haryana) Tel.: +81-124-439200001 Fax: +91-124-4376496 E-mail : communications@avanthapower.com www.avanthapower.com



Ancop srivastava

From: Sent: Anoop srivastava

To:

28 May 2022 09:55 'apccfbhopal@gmail.com'

Subject:

Submission of Six Montnly Compliance Report - 1x600 MW Coal Based Thermal

Power Plant, Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.-Seoni, Madhya

Pradesh.

Attachments:

MoEF Bhopal.pdf

Dear Sir,

Please find attached the **Six Monthly Compliance Report (October' 2021 to March' 2022)** in fulfilment of conditions stipulated in the Environment Clearance (letter Issued by MoEF, New Delhi and referenced above) for 1x600 MW Coal based Thermal Power Plant at Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.- Saoni, Madhya Pradesh of M/s Jhabua Power Ltd. Soft copy is uploaded on MoEF & CC web site-Parivesh.

Kindly aeknowledga.

Regards,

For Jhabua Power Ltd.

Anoop Kr. Srivastava

Enc.: Six Monthly Compliance Report (Octobor' 2021 to March' 2022)



May 27, 2022

To,

The Oirector.

Regional Office, Ministry of Environment & Porests

Kendriya Paryavaran Bhavan, Link Road No.3,

Bhopal-462016

Sub.: Submission of Six Monthly Compliance Report - 1x600 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tchsil-Gbensore, Distt.-Seoni, Madhya Pradesh.

Ref.: EC Letter No.: J-13012/105/2008-IA-II (T) dated 17th February, 2010 & Corrigendum dated 22nd December, 2010.

Dear Sir.

Please find attached the Six Monthly Compliance Report (October' 2021 to March' 2022) in fulfilment of cenditions stipulated in the Environment Clearance (letter issued by MoEF, New Deihi and referenced above) for 1x600 MW Coal based Thermal Power Plant at Villages- Barela & Gorakpur, Tehsil- Ghansora, Distt.-Seoni, Madhya Pradesh of M/s Jhabua Power Ltd. Soft copy is uploaded on MoEF & CC web site-Parivesh.

Kindly acknowledge.

Regards,

Fer Jhabea Power Lto.

Authorized Signatory

Enc.: Six Monthly Compliance Report (October' 2021 to March' 2022)

Jhabua Power Limited

(CIN: U40105WB1995PLC068616)

Village Barela, PO Atteria, Teheli Ghansons, District Seoni-480997, Machya Pradesh, India

Registered Office : Macinet House, 7th Floor, 16B, OC Ganguly Sereni, Kolkats-760 020, West Bengal, India Corporate Office : Unit No.-387, 3rd Floor, ABW Yower, (Near IFFCO Cheek) M.G. Road, Gurugram - Pin-122002 (Haryana) Tel.: +51-124-4382008/01 Fac: +81-124-4376498 E-mail : communications@avanthapower.com www.avanthapswer.com



Anoop srivastava

From:

Andop srivastava

Sent:

28 May 2022 09:50

To:

'mscb.cpcb@gov.in'; 'mscb.cpcb@nic.in'; 'ccb.cpcb@nic.in'

Subject

Submission of Six Monthly Compliance Report - 1x600 MW Coal Based Thermal

Power Plant, Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.-Seoni, Madhya

Pradesh.

Attachments:

CPC8 New Delhipdf

Dear Sir,

Please find attached the **Six Monthly Compliance Report (October' 2021 to March' 2022)** in fulfilment of conditions stipulated in the Environment Clearance (letter Issued by MoEF, New Delh) and referenced above) for 1x600 MW Coal based Thermal Power Plant at Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.- Seoni, Madhya Pradeah of M/s Jhabua Power Ltd. Soft copy is uploaded on MoEF & CC web site-Panvesb.

Kindly ecknowledge.

Regards,

For Jhabua Power Ltd.

Anoop Kr. Srivastava

Enc.: Six Montbly Compliance Report (October' 2021 to March' 2022)



May 27, 2022

To,

The Chairman,

Cantral Pollution Control Board Parivesh Bhawan, East Arjun Nagar, Delhi - 110 032

Sub.: Submission of Six Monthly Compliance Report - 1x600 MW Coal Based Thermai Power Plant, Villages- Barela & Gorakpur, Tehsil-Ghanpore, Distt.-Seoni, Madhya Pradesh.

Ref.: EC Letter No.: J-13012/105/2000-IA-II (T) dated 17th February, 2010 & Corrigendum dated 22nd December, 2010.

Dear Sir,

Please find attached the Six Monthly Compliance Report (October' 2021 to March' 2022) in fulfilment of conditions stipulated in the Environment Clearance (letter issued by MoEF, New Delhl and referenced above) for 1x600 MW Coal hasad Thermal Power Plant at Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.-Seoni, Madhya Pradesh of M/s Jhabua Power Ltd. Soft copy is uploaded on MoEF & CC web site-Parivesh.

Kindly acknowledge.

Regards,

For Jhabua Power Ltd.

Authorised Signatory

Enc.: Six Monthly Compliance Report (October' 2021 to March' 2022)

Jhabua Power Limited

(CIN : LI40105WB1995PLC068616)

Village Bereis, PO Attaria, Tehall Ghancore, District Sconi-480997, Madhya Pradesh, India

Registered Office : Macmet House, 7th Floor, 10B, OC Ganguly Sarani, Kolketa-706 020, West Bongal, India Corporate Office: Unit No.-307, 3rd Floor, ABW Tower, (Near IFFCO Chowk) M.Q. Roed, Guragram - Pin-122002 (Haryana) Tel.: +91-124-4392000/01 Fax: +91-124-4376496 E-mail: contraunications@avanthspower.com www.avanthpower.com



Anoop srivastava

From: Sent: Anoop srivastava 28 May 2022 09:54

To:

'cpcb.bhopal@gmail.com'

Subject:

Submission of Six Monthly Compliance Report - 1x600 MW Coal Based Thermal

Power Plant, Villages- Barela & Gorakour, Tehsil- Ghansore, Distt.-Seoni, Madhya

Pradesh.

Attachments:

CPCB Bhopal.pdf

Dear Sir,

Please find attached the **Six Monthly Compliance Report (October' 2021 to March' 2022)** In fulfilment of conditions stipulated in the Environment Clearance (letter Issued by MoEF, New Delhi and referenced above) for 1x600 MW Coal based Thermal Power Plant at Villages- Barela & Gorakpur, Tehsil- Ghansoro, Distt.- Seoni, Madhya Pradesh of M/s Jhabua Power Ltd. Soft copy is uploaded on MoEF & CC web site-Parivesh.

Kindly acknowledge.

Regards,

For Jhahua Power Ltd.

Anoop Kr. Srivastava

Enc.: Six Monthly Compliance Report (October' 2021 to March' 2022)



May 27, 2022

To,

The Director,

Zonal Office, Central pollution control board, 3rd Floor, Sahkar bhawan, North TT Nagar, Bhopal-462003

Sub,: Submission of Six Monthly Compliance Report - 1x600 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil-Ghansore, Distt.-Seoni, Madhya Pradesh.

Ref.: EC Letter No.: J-13012/105/2008-IA-II (T) dated 17th February, 2010 & Corrigendum dated 22nd December, 2010,

Dear Sir,

Piease find attached the Six Monthly Compliance Report (October' 2021 to March' 2022) in fulfilment of conditions stipulated in the Environment Clearance (letter issued by MoEF, New Delbi and referenced above) for 1x600 MW Coal based Thermai Power Plant at Viiieges- Barela & Gorakpur, Tebsil- Ghansore, Distt.-Seoni, Madhya Pradesh of M/s Jnabua Power Ltd. Soft coby is uploaced on MoEE & CC web site-Parivesh.

Kindly acknowledge.

Regards,

For Jhabua Power Ltd.

Authorized Sighatory

Enc.: Six Monthly Compliance Report (October' 2021 to March' 2022)



Anoop srivastava

From:

Anoop srivastava

Sent:

28 May 2022 09:52

To:

ms-mppcb@mp.gov.in

Subject:

Submission of Six Monthly Compliance Report - 1x600 MW Coal Based Thermal

Power Plant, Viliages- Barela & Gorakpur, Tehsil- Ghansore, Distt-Seoni, Madhya

Pradesn.

Attach ments:

MPPCB Bhooal.pdf

Dear Sir,

Please find attached the **Six Monthly Compliance Report (October' 2021 to March' 2022)** In fulfilment of conditions stipulated in the Environment Clearance (letter Issued by MoEF, New Delhi and referenced above) for 1x600 MW Coal based Thermal Power Plant at Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.- Seoni, Madnya Pradesh of M/s Jhabua Power Ltd. Soft copy is uploaded on MoEF & CC web site-Parivesh.

Kindly acknowledge.

Regards,

For Jhabua Power Ltd.

Anoog Kr. Srivastava

Enc.: Six Monthly Compliance Raport (October' 2021 to March' 2022)



May 27, 2022

To,

The Member Secretary,

Madhya Pradesh Pollution Control Board, E-5, Arera Eolony, Paryawaran Parisar, Bhopal -16, Madhya Pradesh

Sub.: Submission of Six Monthly Compliance Report - 1x600 MW Coal Besed Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil-Ghansore, Distt.-Seoni, Madhya Pradesh.

Ref.: EC Letter No.: J-13012/105/2008-IA-II (T) dated 17th February, 2010 & Corrigendum dated 22th December, 2010.

Dear Sir,

Please find attached the **Six Monthly Compliance Report (Octoher' 2021 to March' 2022)** In fulfilment of conditions stipulated in the Environment Clearance (letter issued by MoEF, New Delhi and referenced above) for 1x600 MW Coal hased Thermal Power Plant at Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.-Seoni, Madhya Pradesh of M/s Jhabua Power Ltd. Soft cepy is uploaded on MoEF & CC web site-Parivesh.

Kindly acknowledge.

Regards,

For Jhabua Power Ltd.

Authorized Signatory

Enc.: Six Monthly Compliance Report (Octobor' 2021 to March' 2022)

Jhabua Power Limited

(CIN: U40105WB1995PLC068616)

Village Bergle, PO Atteria, Tehsil Ghansore, District Segni-180997, Madhya Pradesh, India

Registered Office : Necmot House, 7th Floor, 10B, OC Ganguly Sarani, Kolkata-700 028, West Bengal, India Corporate Office : Unit No.-307, 3rd Floor, ABW Tower, (Near IFFCO Chowk) M.G. Read, Guragram - Pin-122002 (Haryana) Tel.: +91-124-4382000/01 Fac: +91-124-4378496 E-mail : communications@aventhapowar.com www.avanthapowar.com



Submission receipt of Environment Statement



Ref. No.: JPL/ENV/21-22/August/36

August 29, 2022

To,

The Member Secretory,

Madhya Pradesh Pollution Control Board. E-5. Arera Colony. Paryawaran Parisar, Bhopai-16, Madhya Pradesh.

Subject: Submission of Environmental Statement Report for the year 2021-22 for 1 x 600 MW Thermal Power Plant at Village-Barela & Gorakhpor, Tehsil- Ghansore, Distt.- Seoni, Madhya Pradesh by M/s Jhahua Power Plant.

Ref.: MoEF Environmental Clearance No.: J-13012/105/2008-IA-II (T) dated 17th February 2010 & Corrigendum dated 22rd December 2010.

Desr Sir.

Please find attached the Environmental Statement for the year 2021 - 2022 in fulfilment of conditions stipulated in the Environment Clearance (letter issued by MoEF. Naw Deihl and referenced above) for 1x600 MW Coal based Thermal Power Plant at Villages- Barala & Gorakhpur, Tehsil- Ghansore, Distt.- Seoni, Madhya. Pradesh of M/s Jhabua Power Ltd.

We submit to you that Environmental Protection always remains in our top most agenda and all the efforts are being put for the effective compliance all the time. Thanking You,

Yours Sincerely,

For Jhabua Power Ltd IN A MONO

Authorized Signatory

End.: Environment Statement Report for the year 2021-22.

CC: Regional Office, MPPCB, Vijaynagar, Jahaipur, MP.

08/2022

Jhabua Power Limited

(CIN: U40105WB1885PLC068616)

Villago Barole, PO Attarie, Teheli Ghancore, District Secni-488997, Madhys Pradesh, India

Registered Office : Macmet House, 7th Floor, 108, OC Ganguly Sarani, Kolkata-700 620, West Bengal, India Corporate Office : Unit No.-387, 3rd Floor, ABW Tower, (Mear IFFCO Chowic) M.G. Road, Gurugram - Pin-122802 (Haryena) Tel.: +81-124-4392000/01 Fac: +81-124-4378489 E-neal]; communications@avanthapower.com www.avanthapower.com



Expenditure break-up
April 2022 to September 2022

EXPENDITURE DETAILS ON ENVIRONMENT FROM APRIL 20	ANNEXURE - 17 022 TO SEPTEMBER 2022	
DESCRIPTION	EXPENDITURE	
A- ENVIRONMENT		
World Environment Day Celebration	26100	
Participation in Golden Peacock for ash management	58410	
Third Party Environmental Quality monitoring	202111	
Hydrogeological study of the area	97940	
Disposal of conditioned fly ash through railway rake	67300000	
Tarpaulin covering of conditioned Fly Ash wagon.	5629190	
Printing of ashdisposal slip	52640	
Legacy Ash disposal in low lying area	11327400	
Machineries hiring charge for fly ash loading to railway wagon	9487200	
Spare of AAQMS	215780	
AMC for online monitoring system-AAQMS	356000	
Connectivity of EQMS with CPCB & MPPCB	64900	
AMC CEMS	67850	
AMC PTZ camera connectivity	11800	
Repairing of EQMS Transmeter	47200	
Optical Sensor for TSS electrod & Cable Adopter for EQMS	311992	
CTO Fee for legacy ash disposal in low lyingarea	250000	
Publication of Notice in news paper to increase fly ash lifting	1931369	
Standard gas cylinder for calibration	26786	
Total "A"	97464668	
B- GREEN BELT DEVELOPMENT		
Watering of plantation	192000	
Man power in green belt	1064000	
Total "B"	1256000	
Total "A + B" in lacs	98720668	
Total "A + B" in Cr.	9.87	