



JPL/ECC/Phase-II/FHY/2022-2023/OCT/42

October 29, 2022

To,

The Director,

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

Sub.: Submission of Six Monthly Compliance Report - 1x660 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.-Seoni, Madhya Pradesh.

Ref.: MoEF letter no. J 13012/63/2010-IA.II (T) Dated 21th August'2014 & 6th August 2021

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 1x660 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)

Tel: 0124- 4392000/01 E- Mail: communications@jhabuapower.co.in Web: www.jhabuapower.co.in 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 13012/63/2010-IA.II (T) Dated 21th August'2014"

"MoEF LETTER NO. J 13012/63/2010-IA.II (T) Dated 6th August'2021" Extension of Validity

(COMPLIANCE PERIOD: APRIL 2022 to SEPTEMBER 2022)

FOR

Jhabua Power Limited

EXPANSION BY ADDITION OF

1 x 660 MW SUPERCRITICAL THERMAL POWER PLANT

AT

VILLAGE:- BARELA & GORAKHPUR TEHSIL: - GHANSORE DISTRICT: - SEONI MADHYA PRADESH

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Compliance to conditions stipulated in Environmental Clearance

Ref MoEF letter no. J 13012/63/2010-IA.II (T) dated 21st August'2014		
A. Spe	A. Specific Conditions	
Sr. No	Specific Conditions	Compliance
i	Vision document specifying prospective plan	Vision documents specified prospective
	for the site shall be formulated and	plan is already submitted with 1st half
	submitted to the Regional Office of the	yearly compliance report in 2014.
	Ministry within six months.	
ii	Harnessing solar power within the premises	Harnessing of solar power within premises
	of the plant particularly at available roof	could not be implemented due to M/s
	tops shall be carried out and status of	Jhabua Power Ltd was under stressed
	implementation including actual generation	asset. It was under resolution
	of solar power shall be submitted along with	professionals, financial creditors and was
	half yearly monitoring report.	under NCLT and financial authorities has
		been transfer to resolution professionals
		from JPL to them.
		However, Resolution plan submitted by
		NTPC Limited and approved by NCLT,
		Kolkata Bench vide its order dated 6 th July
		2022 for Jhabua Power Ltd has been

implemented on 05.09.2022.

the Ministry.

We are committed to install it in the near

future and the status of implementation will be submitted to the regional office of

iii	A stack of 275 m height shall be provided with continuous online monitoring equipment's for SOx, NOx and 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.	A bi-flue Stack of 275 height is already provided with continuous online monitoring equipment's for SOx, Nox & PM for Phase –I. Continuous online monitoring equipment's for SOx, NOx, PM will also be provided for Phase –II. Exit velocity of flue gases will be maintained >22 m/sec & Mercury emissions from stack will be monitored periodically.
iv	Sulphur and ash contents in the imported coal to be used in the project shall not exceed 0.5 % and 8.0 % respectively at any given time. In case of variation of coal quality at any point of time, fresh reference shall be made to the Ministry for suitable amendments to environmental clearance wherever necessary.	Imported coal is not envisaged to be used with sulphur & ash content more than 0.5% and 8.0 % respectively.
V	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³. 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.	High Efficiency Electrostatic Precipitators (ESPs) will be provided to restrict the emission < 50 mg/Nm³. Effective and adequate dust suppression system like water sprinkling system, Cyclone Separator & Bag Filters will be 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 will be through high concentration slurry disposal system.

vi	Adequate dust extraction system such as	Shall be complied.
	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.	
vii.	COC of at least 5.0 shall be adopted.	Optimization of cycle of concentration will
		be carried out to achieve the COC 5.0
viii.	Monitoring of surface water quantity and	The ground water and surface water
	quality shall also be regularly conducted and	samples are regularly collected and
	records maintained. The monitored data	records maintained effectively under the
	shall be submitted to the Ministry regularly.	compliance of Environment Clearance
	Further, monitoring points shall be located	granted for Phase –I. Ground water and
	between the plant and drainage in the	surface water reports are also submitted
	direction of flow of ground water and	on half yearly basis to statutory authority.
	records maintained. Monitoring for heavy	Surface & Ground water report is enclosed
	metals in ground water shall also be	as Annexure -1.
	undertaken and results/findings submitted	
	along with half yearly monitoring report.	
ix	A well designed rain water harvesting	A rain water harvesting & recharging
	system shall be put in place within six	system, designed in consultation with
	months, which shall comprise of rain water	Central Groundwater Authority/ Board
	collection from the built up and open area in	(Authentication letter is enclosed as
	the plant premises and detailed record kept	Annexure -2).
	of the quantity of water harvested every	
	year and its use.	
X	No water bodies including natural drainage	Water bodies including natural drainage
	system in the area shall be disturbed due to	are not being disturbed due to any activity
	activities associated with the setting up /	of our existing power plant.
	operation of the power plant.	
xi	Hydrogeology of the area shall be reviewed	Hydro-geological study of the area is

	annually from an institute/ organization of	being reviewed under the Phase -I. The
	repute to assess impact of surface water	hydrogeological report of the area
	and ground regime (especially around ash	reviewed is submitted under the E.C.
	dyke). In case any deterioration is observed	compliance of Phase-I. The consistent
	specific mitigation measures shall be	trend of change in water level from pre
	undertaken and reports/ data of water	monsoon to post monsoon of monitoring
	•	·
	quality monitored regularly and maintained	wells shows that there is no adverse
	shall be submitted to the Regional Office of	impact in the ground water table in the
	the Ministry.	project area and adjoining villages
		because of the project site.
xii	Wastewater generated from the plant shall	Waste water generated from the plant will
	be treated before discharge to comply limits	be treated in ETP to confirm the
	prescribed by the SPCB/CPCB.	SPCB/CPCB limits before its utilization.
xiii	Additional soil for leveling of the proposed	The site is fairly levelled and there are no
	site shall be generated within the sites (to	undulations. Soil if required for minor
	the extent possible) so that natural drainage	leveling shall be sourced from within the
	system of the area is protected and	site so that natural drainage system of the
	improved.	area is protected and improved.
xiv	Fly ash shall be collected in dry form and	Fly ash will be collected in dry form. Silo
	storage facility (silos) shall be provided.	will be provided as a storage facility for
	Unutilized fly ash shall be disposed off in the	storage of dry fly ash apart from the ash
	ash pond in the form of slurry. Mercury and	pond for the disposal of unutilized fly ash
	other heavy metals (As, Hg, Cr, Pb etc.) will	through high concentration slurry system.
	be monitored in the bottom ash as also in	Mercury and other heavy metals (As, Hg,
	the effluents emanating from the existing	Cr, Pb etc.) will be monitored in the
	ash pond. No ash shall be disposed off in	bottom ash as well as effluent of ash
	low lying area.	pond. Fly Ash will not be disposed off in
		low laying area without NOC from MPPCB.
		Ash pond effluent report is enclosed as
		Annexure -3.

ΧV	Fly ash shall not be used for agricultural	Fly ash will not be used in agriculture and
~ ~	purpose. No mine void filling will be	filling of mines without NOC from MPPCB.
	undertaken as an option for ash utilization	Thing of Thines without NOC from Pil 1 Cb.
	·	
	without adequate lining of mine with	
	suitable media such that no leachate shall	
	take place at any point of time. In case, the	
	option of mine void filling is to be adopted,	
	prior detailed study of soil characteristics of	
	the mine area shall be undertaken from an	
	institute of repute and adequate clay lining	
	shall be ascertained by the State Pollution	
	Control Board and implementation done in	
	close coordination with the State Pollution	
	Control Board.	
xvi	Fugitive emission of fly ash (dry or wet)	Effective measures like sprinkling will be
	shall be controlled such that no agricultural	adopted to control fugitive emission of fly
	or non-agricultural land is affected. Damage	ash so that no agricultural or non-
	to any land shall be mitigated and suitable	agricultural land is affected.
	compensation provided in consultation with	
	the local Panchayat.	
xvii	Ash pond shall be lined with HDPE/LDPE	Ash pond will be lined with 500 µm liner
	lining or any other suitable impermeable	to prevent the leachate. Besides,
	media such that no leachate takes place at	adequate safety measures will be taken to
	any point of time. Adequate safety	avoid any breach of the dyke.
	measures shall also be implemented to	
	protect the ash dyke from getting breached.	
xviii	A long term study of radio activity and	Required Mechanism for an in-built
	heavy metals contents on coal to be used	continuous monitoring for radio activity
	shall be carried out through a reputed	and heavy metals in coal and fly ash
	institute and results thereof analyzed every	(including bottom ash) will be put in
	two year and reported along with monitoring	place. The radioactivity content study
	reports. Thereafter mechanism for an	carried out by Department of Atomic
		1

	in-built continuous monitoring for radio	Energy Board of Radiation & Isotope
	activity and heavy metals in coal and fly ash	Technology in coal and fly ash for phase -I
	, ,	
	(including bottom ash) shall be put in place.	is enclosed as Annexure -4.
xix	Green Belt consisting of three tiers of plantations of native species around plant and at least 50 m width shall be raised. Wherever 50 m width is not feasible a 20 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 80 %.	We are developing greenery in and around the plant and planted 181000 trees. 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 Green belt development report is
		enclosed as Annexure -5.
XX	The green belt development of the existing	Native species is already being expedite
	unit shall be expedited with the native	for green belt development under existing
	species and for the proposed expansion,	unit. Green belt development is already
	shall be initiated at the earliest and well	initiated for proposed expansion.
	before the start of construction.	
xxi	CSR schemes identified based on need based assessment shall be implemented in consultation with the village Panchayat and the District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programs.	Assessment done. Shall be complied with.

	A	61 11 1 11
xxii	A minimum amount of Rs 14.0 Crores as	Shall be complied with.
	one time capital investment shall be	
	earmarked for activities to be taken up	
	under CSR during construction phase of the	
	Project. Recurring expenditure for CSR	
	thereafter shall be Rs 2.8 Crores per annum	
	or as per CSR guidelines of Govt. of India,	
	whichever is more till the life of the plant.	
xxiii	The project proponent shall also adequately	Being continuously implemented. Bore
	contribute in the development of the	wells and hand pumps are being installed
	neighboring villages. Special package with	in the surrounding villages of Barela,
	implementation schedule for free potable	Gorakhpur & Binaiki. Construction of new
	drinking water supply in the nearby villages	open dug well is done in village Binaiki.
	in and schools shall be undertaken a time	The new dedicated pipe line along with
	bound manner.	suitable electric motor is installed in the
	Bodila Mailler.	well for supply of drinking water to the
		village.
		village.
xxiv	For proper and periodic monitoring of CSR	MGSIRD – Mahatma Gandhi State
xxiv	For proper and periodic monitoring of CSR activities, a CSR committee or a Social Audit	MGSIRD – Mahatma Gandhi State Institute of Rural Development, (Govt. of
xxiv		
xxiv	activities, a CSR committee or a Social Audit	Institute of Rural Development, (Govt. of
xxiv	activities, a CSR committee or a Social Audit committee or a suitable credible external	Institute of Rural Development, (Govt. of MP) is appointed by JPL external agency
xxiv	activities, a CSR committee or a Social Audit committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent	Institute of Rural Development, (Govt. of MP) is appointed by JPL external agency
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	ensured that the Head of the Cell shall	
	directly report to the Head of the Plant who	
	would be accountable for implementation of	
	environmental regulations and social impact	
	improvement/mitigation measures.	
B. Ger	neral Conditions:	
i	The treated effluents conforming to the	Treated effluents conforming to the
	prescribed standards only shall be	prescribed standards will only be recycled
	re-circulated and reused within the plant.	& reused. Zero Discharge condition will be
	Arrangements shall be made that effluents	maintained effectively except in monsoon
	and storm water do not get mixed.	season for which separate storm water
		system is constructed under phase-I to
		avoid the mixing of effluent.
•••		Course bushings to be and an Eined
ii	A sewage treatment plant shall be provided	Sewage treatment plant based on Fixed
	(as applicable) and the treated sewage shall	Film Aerobic Treatment System of
	be used for raising greenbelt/plantation.	adequate capacity has been installed for
		the treatment of raw sewage. Treated
		sewage water is being used for greenbelt
		development/plantation.
iii	Adequate safety measures shall be provided	Continuous and effective safety measures
	in the plant area to check/minimize	will be taken and provided for effective
	spontaneous fires in coal yard, especially	fire prevention & protection in the plant
	during summer season. Copy of these	area to check/minimize the spontaneous
	measures with full details along with	fires in coal yard, especially during
	location plant layout shall be submitted to	summer season. Besides above, a
	the Ministry as well as to the Regional Office	dedicated and well equipped Fire & Safety
	of the Ministry.	department is in place to avoid such type
		of incident in the plant area.
•	Character Cardillana Card III	
iv	Storage facilities for auxiliary liquid fuel	Storage facilities for LDO will be
	such as LDO/ HFO/LSHS shall be made in	made in the plant area in consultation

V	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. First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	with Department of Explosives, Nagpur after getting the NOC for the same. • Disaster management plan has been prepared and is in place to handle case of any accident taking place due to storage of oil for phase -I. Adequate First aid and sanitation facility are being provided round the clock for phase -I and same will be maintained in Phase -II also.
vi	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. 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.	 The noise level in the work zone area will be maintained below 85 dBA. Acoustic hood will be provided for the turbine. Earplugs /ear muffs being provided as personal protective equipment to the workers in phase -I. Noise level monitoring report is enclosed as Annexure 7.
Vii	Regular monitoring of ambient air ground level concentration of SO ₂ , NOx, PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and	• Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM (PM _{2.5} & PM ₁₀) and Hg is being carried out in the impact zone and records are being maintained in phase-I and same will be continued for phase-II also. Ambient Air Quality monitoring report is enclosed as Annexure- 8.

frequency of monitoring shall be decided in The location of monitoring the consultation with SPCB. Periodic reports stations has already been decided in shall be submitted to the Regional Office of consultation with Regional Office of this Ministry. The data shall also be put on MPPCB, Jabalpur. the website of the company. Permanent 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 Wind Velocity, Velocity, Solar Radiation, Atmospheric Pressure, temperature. Other than permanent AAQMS, Mobile Van for monitoring of PM10, PM2.5, SOx, NOx & CO has also been installed & commissioned. viii Provision shall be made for the housing of All necessary facility for workers will be construction labour (as applicable) within provided. the site with all necessary infrastructure and After completion of the project activities facilities such as fuel for cooking, mobile and start of O&M phase, temporary toilets, mobile STP, safe drinking water, structure will be either used for O&M medical health care, crèche etc. The personnel or will be removed. housing may be in the form of temporary structures to be removed after the completion of the project. ix The project proponent shall advertise in at We had published in two newspaper" least two local newspapers widely circulated Dainik Bhaskar & Nai Duniya in the region around the project, one of 27.08.2014" in local language which are which shall be in the vernacular language of widely circulated in the area. 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.	
X	A copy of the clearance letter shall be sent	Copy of clearance has also been sent to
	by the proponent to concerned Panchayat,	concerned Panchayat, Zila Parisad and the
	Zila Parisad / Municipal Corporation, urban	Local NGO. Environmental Clearance has
	local Body and the Local NGO, if any, from	already been web hosted on company web
	whom suggestions/representations, if any,	site.
	were received while processing the	
	proposal. The clearance letter shall also be	
	put on the website of the Company by the	
	proponent.	
xi	The proponent shall upload the status of	Status of compliance of the stipulated EC
	compliance of the stipulated environmental	conditions, including results of monitored
	clearance conditions, including results of	data is hosted on company web site.
	monitored data on their website and shall	
	update the same periodically. It shall	The criteria pollutant levels namely;
	simultaneously be sent to the Regional	RSPM, SO_2 , NO_x (ambient levels as well as
	Office of MOEF, the respective Zonal Office	stack emissions) is displayed at the plant
	of CPCB and the SPCB. The criteria pollutant	operation gate.
	levels namely; SPM, RSPM (PM _{2.5} & PM ₁₀),	operation gate.
	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.	
xii	The environment statement for each	The environment Statement report for the
	financial year ending 31st March in Form-V	year 2021 - 2022 has been submitted to
	financial year ending 31st March in Form-V	year 2021 - 2022 has been submitted to

as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.

The project proponent shall submit six

Madhya Pradesh State Pollution Control Board before 30th September 2022. Submission receipt is enclosed as **Annexure -9.**

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 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.

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xiv

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-13**.

Status of compliance of the stipulated EC conditions, including results of monitored data is hosted on company web site.

Office of the Regional Ministry 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 during use

The same is being complied with.

	monitoring. Project proponent will up-load	
	the compliance status in their website and	
	up-date the same from time to time at least	
	six monthly basis. Criteria pollutants levels	
	including NO_x (from stack & ambient air)	
	shall be displayed at the main gate of the	
	power plant.	
XV	Separate funds shall be allocated for	Complied with and are being followed.
	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.	
xvi	The project authorities shall inform the	Same will be complied.
	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.	
xvii	Full cooperation shall be extended to the	We ensure full cooperation to the
	Scientists/Officers from the Ministry /	Scientists / Officers from the Ministry /
	Regional Office of the Ministry / CPCB/ SPCB	Regional Office of the Ministry / CPCB/
	who would be monitoring the compliance of	SPCB who would be monitoring the
	environmental status.	compliance of environmental status.
7	The Ministry of Environment and Forests	Agreed for the same.
	reserves the right to revoke the clearance if	
	conditions stipulated are not implemented to	
	the satisfaction of the Ministry. The Ministry	
L	<u> </u>	

	may also impose additional environmental	
	conditions or modify the existing ones, if	
	,	
0	necessary.	Acceptable
8	The environmental clearance accorded shall	Agreed
	be valid for a period of 5 years to start	
	operations by the power plant.	
9	Concealing factual data or submission of	Agreed
	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.	
10	In case of any deviation or alteration in the	Agreed
	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.	
11	The above stipulations would be enforced	Noted & same shall be complied with.
	among others under the Water (Prevention	
	and Control of 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.	

12	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.			
Ref Mo	EF letter no. J 13012/63/2010-IA.II (T) dated 6 th August'2021		
i	PP shall implement all the condition of E.C	All the Conditions under E.C. grated for 1		
'	dated 21 st August, 2014 within certain time	x 660 supercritical coal based power plant		
	line.			
	inie.	are under implementation.		
ii	100% Fly ash and Bottom ash utilization	Fly ash utilization plan for 1 x 660 MW		
	plan shall be prepared and to be	power plant is enclosed as Annexure		
	implemented in stipulated time period. PP	-11. Fly ash utilization notification of		
	shall comply with Ministry's notification	n MoEF & CC dated 31st December will be		
	dated 22 nd April, 2021 regarding Fly ash	complied effectively. Bottom ash will be		
	utilization from first year of commissioning.	used as a filler in low lying are for waste		
	Bottom ash should be treated as a resource	land reclamation as per CPCB guideline		
	not as a waste.	March 2019.		
iii	Latest emission standard (after January	We will adhere with the prescribed norms		
	2017 onwards) shall be complied with.	of Emission applicable for thermal power		
		stations commissioned after January		
		2017.		
iv	PP shall implement silo loading facility for fly	Similar to Phase-I, Silo will also be		
	ash storage.	constructed for Phase-II for fly ash		
		storage.		
V	PP shall submit plan for the implementation	We have already submitted green belt		
	of 33% peripheral green belt (only trees of	development plan to CCF, Seoni with		
	local species) with fund allocated and time	Phase –I project and more than 181000		
	line to Ministry's Regional office within six	plantations has been completed out of		
	. ,			

	months.	which 45541 plantations are planted			
		under phase-II. Submission receipt along			
		with plot plan highlighting green belt area			
		is enclosed as Annexure -10.			
Vi	PP shall submit the timeline for fulfillment of	All the commitments during public hearing			
	commitments during Public Hearing with	has been fulfilled.			
	allotted fund to Ministry's Regional Office.				
Vii	PP shall increase the fund allocation for	Details of fund allocation for Environment			
	Environment Management plan since the	Management plan is given below;			
	1. Capital cost, Phase -II: 193 Cr.				
		2. Recurring cost, Phase-II: 9.5 CR.			
Viii	PP shall submit the fund allocation for	Wildlife Management plan along with flora			
	Wildlife conservation plan to Forest	& Fauna details and allocated fund is			
	Department within six months from the	submitted to Forest officer during EIA			
	issues of this letter and submit the action	study for Phase-I for approval. Approved			
	taken to Ministry's Regional Office.	copy of Wildlife Conservation plan is			
		enclosed as Annexure -12.			
ix	PP shall develop tree plantation all along the	Plantation all along the raw material/ coal			
	raw material/ coal storage yard with in six	storage yard has already been developed			
	month of issue of this letter and shall	under Phase-I project with survival rate			
	maintain survival rate over 90%. The status	>90%. We are doing more plantation in			
	of compliance will be submitted to the	these area to increase the plantation			
	regional office of the Ministry along with six	density.			
	monthly compliance report.				

Annexure -1

Surface & Ground water report.



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





Test Report

Sample Number: VEL/SW/01

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

: Surface Water

: Pariyat River

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

Pradesh.

Report No.

VEL/SW/2209261002

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

: 26/09/2022

: 16/09/2022

Sampling Date Sampling Quantity

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

Sampling Type

: Grab

Sample Collected By

Sample Description

: VEL Representative (Mr. Rajesh)

Environmental Condition

: OK

Sampling and Analysis

: IS: 3025 & APHA

Protocol

Location

S.No.	Test Parameters	Test Method	Results	Units
1	pH (at 25°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 2150 B, Threshold Odour Method	Unobjectionable	-
4	Total Hardness	APHA 2340 C,EDTA Titrimetric Method	192.60	mg/l
5	Chioride (as CI)	APHA 4500 Ci-B Argentometric Method:2017	26.71	mg/l
6	Cyanide (as CN)	APHA 4500 CN-E:2017	BLQ(LOQ-0.02)	mg/l
7	Total Dissolved Solids	APHA 2540 C Gravimetric Method RA:2012	262.00	mg/l
8	Sulphate (as SO4)	APHA 4500 SO4 E Turbidimetric Method RA:2009	7.65	mg/l
9	Fluoride (as F)	APHA 4500 F D Spands Method :2017	0.60	mg/l
10	COD	APHA 5220 B Open Reflux Method	24.48	mg/l
11	BOD (3 Days at 27°C)	APHA 5210 C Ultimate BOD Teat:2017	6.0	mg/l
12	Nitrate (as NO3)	IS 3025 (P-34) Reff. 2003 Chromotropic Method :2017	3.0	mg/l
13	Lead (as Pb)	APHA 3111 B Direct Air Acetylene Fiame Method:2017	BLQ(LOQ-0.002)	mg/l
14	Selenium (Se)	APHA 3114 B:2017	BLQ(LOQ-0.001)	mg/l
15	iron (as Fe)	APHA 3500 Fe B 1,10 Phenanthroline Method:2017	BLQ(LOQ-0.01)	mg/l
16	Arsenic (as As)	APHA 3114 B:2017	BLQ(LOQ-0.005)	mg/l
17	Total Chromium (Cr)	APHA 3111 B Direct Alr Acetylene Fiame Method:2017	BLQ(LOQ-0.002)	mg/l
18	Phonolic Compounde (as C6H5OH)	APHA 5530 C Chloroform Extraction Methori:2017	BLQ(LOQ-0.0004)	mg/l
19	Anionic Detergenta (as MBAS)	APHA 5540 C MBAS Method	BLQ(LOQ-0.05)	mg/i
20	Zinc (as Zn)	APHA 3111 B Direct Air Acetylene Flame	BLQ(LOQ-0,01)	Emg/

Page No. 1/3

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Test Report

Sample Number: VEL/SW/01 Report No. : VEL/SW/2209261002

S.No.	Test Parameters	Test Method	Results	Units
20		Method:2017		
21	Copper (as Cu)	APHA 3111 8 Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg/l
22	Cadmium (as Cd)	APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg/l
23	Turbidity	APHA 23rd Edition, 2130 B	BLQ(LOQ-1.0)	NTU
24	Calcium as Ca	APHA 23rd Edition, 3500 Ca B	34.31	mg/l
25	Alkalinity as CaCO3	APHA 23rd Edition, 2320 B	27.80	mg/l
26	Magnesium as Mg	APHA 23rd Edition, 3500 Mg B	25.96	mg/l
27	Aluminium as Ai	APHA 23rd Edition, 3111 B	BLQ(LQQ-0.002)	mg/l
28	Boron	APHA 23rd Edition, 4500 B C	BLQ(LOQ-0.01)	mg/l
29	Residual Free Chlorine	APHA 3500 CI B lodometric Method:2017	BLQ(LOQ-0.15)	mg/l
30	Total Suspended Solids	APHA 2540 D Gravimetric Method	8.0	mg/l
31	Manganese as Mn	APHA 3111 B:2017	BLQ(LOQ-0.002)	mg/l
32	Mercury (as Hg)	APHA 3112 B Cold Vapor AAS Method : 2017	BLQ(LOQ-0.0005)	mg/l





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





Test Report

Sample Number: VEL/SW/01

Report No.

: VEL/SW/2209261002

S.No.	Test Parameters	Test Method	Results	Units
33	Total Coliform	IS 1622:1981	<2	MPN/100 ml
34	E.coli	IS 1622:1981	<2	MPN/100 ml

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

End of Report

(Checked By)

SATYA DEV

Dy. Technical Manager-Micro

(Approved By)

Page No. 3/3



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





Test Report

Sample Number: VEL/SW/03

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

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

Pradesh.

Report No. : VEL/SW/2209261003 Format No : 7.8 F-03

Party Reference No : 4300005298

Reporting Date : 01/10/2022

Pariod of Analysis : 26/09/2022-01/10/2022

Receipt Date : 26/09/2022

Sampling Date : 16/09/2022 Sampling Quantity : 2 Ltr. + 2 Ltr. +1 Ltr.+250 ml

Sampling Type : Grab

Sample Description

: Surface Water

Location

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

Sample Collected By Environmental Condition

: OK

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 Comparison Method RA:2012	BLQ(LOQ-1.0)	Hazen
3	Odour	APHA 2150 B, Threshold Odour Method	Unobjectionable	
4	Total Hardness	APHA 2340 C,EDTA Titrimetric Method	123.05	mg/l
6	Chloride (as Ci)	APHA 4500 CI-B Argentometric Method:2017	31.57	mg/l
6	Cyanide (as CN)	APHA 4500 CN-E:2017	BLQ(LOQ-0.02)	mg/t
7	Total Dissolved Solids	APHA 2540 C Gravimetric Method RA:2012	220.00	mg/l
8	Sulphate (as SO4)	APHA 4500 SO4 E Turbidimetric Method RA:2009	8.50	mg/l
9	Fluoride (as F)	APHA 4600 F D Spands Method :2017	0.52	mg/l
10	COD	APHA 5220 B Open Reflux Method	28.56	mg/l
11	BOD (3 Days at 27°C)	APHA 5210 C Ultimate BOD Test;2017	6.0	mg/t
12	Nitrate (as NO3)	1S 3025 (P-34) Reff. 2003 Chromotropic Method :2017	7.16	mg/l
13	Lead (as Pb)	APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg/l
14	Selenium (Se)	APHA 3114 B:2017	BLQ(LOQ-0.001)	mg/l
15	iron (as Fe)	APHA 3500 Fe B 1,10 Phenanthroline Method:2017	BLQ(LOQ-0.01)	mg/t
16	Arsenic (as As)	APHA 3114 B:2017	BLQ(LOQ-0.005)	mg/l
17	Total Chromium (Cr)	APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg/l
18	Phenolic Compounde (as C6H5OH)	APHA 5530 C Chloroform Extraction Method:2017	BLQ(LQQ-0.0004)	mg/l
19	Anionic Datergents (as MBAS)	APHA 5540 C MBAS Method	BLQ(LOQ-0.05)	mg/l
20	Zinc (as Zn) IROL	APHA 3111 B Direct Air Acetylene Flame	BLQ(LOQ-0.01)	mg/l

Page No. 1/3

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Test Report

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

S.No.	Test Parameters	Test Method	Results	Units
20		Method:2017		
21	Copper (as Cu)	APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg/l
22	Cadmium (as Cd)	₁APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg/l
23	Turbidity	APHA 23rd Edition, 2130 B	2.5	NTU
24	Calcium as Ca	APHA 23rd Edition, 3500 Ca B	27.88	mg/l
25	Alkalinity as CaCO3	APHA 23rd Edition, 2320 B	148.0	mg/l
26	Megnesium as Mg	APHA 23rd Edition, 3500 Mg B	12.97	mg/l
27	Aluminium as Al	APHA 23rd Edition, 3111 B	BLQ(LOQ-0.002)	mg/l
28	Boron	APHA 23rd Edition, 4500 B C	BLQ(LOQ-0.01)	mg/l
29	Residual Free Chlorine	APHA 3500 Cl B Iodometric Method:2017	BLQ(LOQ-0.15)	mg/l
30	Total Suspended Solids	APHA 2540 D Gravimetric Method	7.0	mg/l
31	Manganese as Mn	APHA 3111 B:2017	BLQ(LOQ-0.01)	mg/i
32	Mercury (as Hg)	APHA 3112 B Cold Vapor AAS Method : 2017	BLQ(LOQ-0.0005)	mg/l





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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/2209261003

S.No.	Test Parameters	Test Method	Results	Units
33	Total Coliform	IS 1622:1981	<2	MPN/100 ml
34	E.coli	IS 1622:1981	<2	MPN/100 ml

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

End of Report

(Checked By)

SATYA DEV

Dy. Technical Manager-Micro

(Approved By)

Page No. 3/3



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





Test Report

Sample Number : VEL/SW/04

Name & Address of the Party

: M/s Jhabua Power Limited.

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

Pradesh.

Report No.

: VEL/SW/2209261004

Format No Farty Reference No 7.8 F-03

Reporting Date

: 4300005298 : 01/10/2022

Period of Analysis

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

Receipt Date

: 26/09/2022

Sampling Date

: 16/09/2022

Sampling Quantity

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

Sampling Type

: Grab

Location Sample Collected By

Sample Description

: VEL Representative (Mr. Rajesh)

Environmental Condition

Sampling and Analysis

: IS: 3025 & APHA

: Surface Water

: Nala Near Village Binalki

Protocol

S.No,	Test Parameters	Test Method	Results	Units
1	pH (at 25°C)	APHA 4500 H+B Electrometric Method RA:2012	7.38	- min
2	Colour	APHA 2120 (B) Visual Comparison Method RA:2012	BLQ(LOQ-1.0)	Hazen
3	Odour	APHA 2150 B, Threshold Odour Method	Unobjectionable	-24
4	Total Hardness	APHA 2340 C,EDTA Titrimetric Method	208.65	mg/l
5	Chloride (as CI)	APHA 4500 CI-B Argentometric Method:2017	43.71	mg/l
8	Cyanide (as CN)	APHA 4500 CN-E:2017	BLQ(LOQ-0.02)	mg/l
7	Total Dissolved Solids	APHA 2540 C Gravimetric Method RA:2012	360.00	mg/l
8	Sulphate (as SO4)	APHA 4500 SO4 E Turbidimetric Method RA:2000	10.55	mg/l
9	Fluoride (as F)	APHA 4500 F D Spands Method :2017	0.65	mg/l
10	COD	APHA 5220 B Open Reflux Method	44.88	mg/l
11	BOD (3 Days at 27°C)	APHA 5210 C Ultimate BOD Test:2017	8.0	mg/l
12	Nitrate (as NO3)	IS 3025 (P-34) Reff. 2003 Chromotropic Method :2017	9.01	mg/t
13	Lead (as Pb)	APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg/l
14	Selenium (Sa)	APHA 3114 B:2017	BLQ(LOQ-0.001)	mg/l
15	Iron (as Fe)	APHA 3500 Fe B 1,10 Phenanthroline Method:2017	BLQ(LOQ-0.01)	mg/i
16	Arsenic (as As)	APHA 3114 B:2017	BLQ(LOQ-0.005)	mg/l
17	Total Chromium (Cr)	APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0,002)	mg/l
18	Phenolic Compounds (as C6H5OH)	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)	mg/t
20	Zinc (as Zn)	APHA 3111 B Direct Air Acetylene Flame	BLQ(LOQ-0.01)	mg/l

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Test Report

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

S.No.	Test Parameters	Test Method	Results	Units
20		Method:2017		
21	Copper (as Cu)	APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOO-0.002)	mg/l
22	Cadmium (as Cd)	¬APHA 3111 B Direct Air Acetylene Flame Method:2017	BLQ(LOQ-0.002)	mg/l
23	Turbidity	APHA 23rd Edition, 2130 B	10.2	NTU
24	Calcium as Ca	APHA 23rd Edition, 3500 Ca B	68.62	mg/l
25	Alkalinity as CaCO3	APHA 23rd Edition, 2320 B	198.90	mg/l
26	Magnesium as Mg	APHA 23rd Edition, 3500 Mg B	9.02	mg/l
27	Aluminium as Al	APHA 23rd Edition, 3111 B	BLQ(LOQ-0.002)	mg/l
28	Boron	APHA 23rd Edition, 4500 B C	BLQ(LOQ-0.01)	mg/l
29	Residual Free Chlorine	APHA 3500 CI B Iodometric Method:2017	BLQ(LOQ-0.15)	mg/l
30	Total Suspended Solids	APHA 2640 D Gravimetric Method	22.0	mg/l
31	Manganese as Mn	APHA 3111 B:2017	BLQ(LOQ-0.01)	mg/l
32	Mercury (as Hg)	APHA 3112 B Cold Vapor AAS Method : 2017	BLQ(LOQ-0.0005)	mg/l





Page No. 2/3









Test Report

Sample Number:

VEL/SW/04

Report No.

: VEL/SW/2209261004

S.No.	Test Parameters	Test Method	Results	Units
33	Total Coliform	18 1622:1981	<2	MPN/100 m1
34	E.coli	IS 1622:1981	<2	MPN/100 ml

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

End of Report

(Checked By)

SATYA DEV

Dy. Technical Manager-Micro

(Approved By)

Page No. 3/3



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/01

Ms Jhabua Power Limited.

: VEL Representative (Mr. Rajesh)

P.O- Attaria, Tehsll- Ghansore, Distt-Seoni, Madhya

Pradesh.

: Ground Water

: Project Site

Report No.

: VEL/W/2209261010

Format No

7.8 F 03

Party Reference No

: 4300005298

Reporting Date

: 29/09/2022

Period of Analysis

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

Receipt Date

: 26/09/2022

Sampling Date

: 15/09/2022

Sampling Quantity

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

Sampling Type

: Grab

Sample Collected by

Sample Description

Environmental Condition

: OK

Sampling and Analysis

: APHA & IS

Protocol

Location

8.No.	Parameter	meter Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Formissible Limits
	1					
1	pH (at 25 °C)	APHA 4500 H+B Electrometric Method:2017	7.40		6.5-8.5	No relaxation
2	Colour	APHA 2120 B Visual Comparison Method:2017	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity	APHA 2130 B Nephelometric Method:2017	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	APHA 2150 B Threshold Odour Method:2017	Agreeable	•	Agreeable	Agreeable
5	Taste	APHA 2160 B Fiavor Threshold Test Method:2017	Agreeable	•	Agreeable	Agreeable
6	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetric Method:2017	187.25	mg/l	200	600
7	Calcium (as Ca)	APHA 3500 Ca B EDTA Titrimetric Method:2017	57.89	mg/l	75	200
8	Total Alkalinity (as CaCO3)	APHA 2320 B Titration Mathod:2017	143.37	mg/l	200	600
9	Chloride (as CI)	APHA 4500 CI B Argentometric Method:2017	63.13	mg/l	250	1000
10	Residual Free Chlorine (RFC)	APHA 3500 CI B lodometric Method:2017	BLQ(LOQ-0.1 5)	mg/i	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	10.33	mg/l	30	100
13	Total Dissolved Solids	APHA 2540 C Gravimetric Method:2017	325.00	mg/l	500	2000
14	Suiphate (as SO4)	APHA 4500 E Turbidimetric Method:2017	31.93	mg/l	200	400



Page No

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





Test Report

Sample Number :	VEL/GW/01	Report No.	* VEL/W/2209261010
		· · · · · · · · · · · · · · · · · · ·	

	-		1			
S.No.	Parameter	arameter Test Mathod	Result	Unit	Requirement as por IS:10500-2012	
					Acceptable Limit	Permissible Limits
15	Fluoride (as F)	APHA 4500 F D SPADNS Method:2017	0.58	mg/l	1.0	1.5
16	Nitrate (as NO3)	IS:3025 (P-34), Chromotropic Method	8.46	mg/l	45	No relaxation
17	tron (as Fe)	APHA, 4500 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, 4500 B	BLQ (LOQ-0.01)	mg/l	0.5	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 Detergents (as MBAS)	APHA 5540 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	5	15
23	Total Chromium (as Cr)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	No relaxation
24	Copper (as Cu)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	1.5
25	Manganese (as Mn)	APHA, 3111 B	BLQ (LOQ-0.01)	mg/l	0.1	0.3
26	Cadmium (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.003	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	BLQ (LOQ-0.001)	mg/l	0.01	No relaxation
29	Total Arsenic (as As)	APHA, 3114 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 Qunatification, 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 :

Name & Address of the Party

VEL/GW/01

M/s Jhabua Power Limited.

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

Pradesh.

: Ground Water

: Project Site

Report No.

: VEL/W/2209261010/N

Format No

. 7.8 F 03

Party Reference No : 4300005298

Sampling Quantity

Sampling Type

Reporting Date

; 29/09/2022

Period of Analysis

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

Receipt Date

: 26/09/2022

: Grab

Sampting Date

: 15/09/2022

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

: VEL Representative (Mr. Rajesh)

Environmental Condition

Sample Description

Sample Collected by

: OK

Sampling and Analysis

: APHA & IS

Protocci

Location

S.No.	Paramater Test Mathod Result	Test Mathod	Resuit	Unit	Requirement as per IS:10500-2012	
			Acceptable Limit	Permissible Limits		
Micro	blological Analysis:					
1	E.coli	IS:15185: 2016	Absent	/100ml	Shall not be detectable in any 100 mi sample	
2	Total Coliform	IS:15185: 2016	Absent	/100ml	Shaii not be detectable in any 100 ml sample	•

End of Report

(Checked By)

Dy. Technical Manager-Micro

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/02

Name & Address of the Party

: M/s Jhabua Power Limited.

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

Pradesh.

: Ground Water

: Village-Barela

Report No.

; VEL/W/2209261011

Format No : 7.8 F 03

Party Reference No : 4300005298

Reporting Date : 29/09/2022

Period of Analysis : 26/09/2022-29/09/2022

Receipt Date : 26/09/2022

Sampling Date : 15/09/2022

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

Sampling Type : Grab

Sample Collected by

: VEL Representative (Mr. Rajesh)
: OK

Environmental Condition Sampling and Analysis

Sample Description

: APHA & IS

Protocol

Location

S.No.	Parameter	neter Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limits
1	pH (at 25 °C)	APHA 4500 H+B Electrometric Method:2017	7.15	-	6.5-8.6	No relaxation
2	Colour	APHA 2120 B Visual Comparison Method:2017	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity	APHA 2130 B Nephelometric Method:2017	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	APHA 2150 B Threshold Odour Method:2017	Agreeable		Agreeable	Agreeable
5	Taste	APHA 2160 B Flavor Threshold Test Method:2017	Agreeable	15	Agreeable	Agreeable
6	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetric Method:2017	112.35	mg/l	200	600
7	Calcium (as Ca)	APHA 3500 Ca B EDTA Titrimetric Method:2017	25.73	mg/l	75	200
8	Total Alkalinity (as CaCO3)	APHA 2320 B Titration Method:2017	92.50	mg/l	200	600
9	Chloride (as CI)	APHA 4500 CI B Argentometric Method:2017	48.56	mg/l	250	1000
10	Residual Free Chlorine (RFC)	APHA 3500 CI B lodometric 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	11.67	mg/l	30	100
13	Total Dissolved Solids	APHA 2540 C Gravimetric Method:2017	245.00	mg/l	500	2000
14	Sulphate (as SO4)	APHA 4500 E Turbidimetric Method:2017	25.57	mg/i	200	400

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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/W/2209261011

S.No.	Parameter	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limits
15	Fluoride (as F)	APHA 4500 F D SPADNS Method:2017	0.53	mg/l	1.0	1.5
16	Nitrate (as NO3)	IS:3025 (P-34), Chromotropic Method	5.98	mg/l	45	No relaxation
17	Iron (as Fe)	APHA, 4500 H	BLQ (LOQ-0.01)	mg/l	1.0	No relaxation
18	Aluminium (as Al)	APHA, 3111 D	BLQ (LOQ-0.002)	mg/I	0.03	0.2
19	Boron (as B)	APHA, 4500 B	BLQ (LOQ-0.01)	mg/l	0.5	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 Detergents (as MBAS)	APHA 5540 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	5	15
23	Total Chromlum (as Cr)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	No relaxation
24	Copper (as Cu)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	1.5
25	Manganese (as Mn)	APHA, 3111 B	BLQ (LOQ-0.01)	mg/l	0.1	0.3
26	Cadmium (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.003	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	BLQ (LOQ-0.001)	mg/l	0.01	No relaxation
29	Tetel Arsenic (as As)	APHA, 3114 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/02

Name & Address of the Party

: M/s Jhabua Power Limited.

: VEL Representative (Mr. Rajesh)

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

Pradesh.

: Ground Water

: Village-Barela

Report No.

: VEL/W/2209261011/N

Format No

. 7.8 F 03

Party Reference No : 4300005298

Reporting Date

: 29/09/2022

Period of Analysis

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

Receipt Date

: 26/09/2022

Sampling Date

: 15/09/2022

Sampling Quantity

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

Sampling Type

: Grab

Sample Collected by

Sample Description

Environmental Condition

: OK

Sampling and Analysis

: APHA & IS

Location

B.No.	Parameter	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limits
Micro	blological Analysis:					
1	E.coli	IS:15185: 2016	Absent	/100ml	Shall not be detectable in any 100 ml sample	41
2	Total Coliform	IS:15185: 2016	Absent	/100ml	Shall not be detectable in any 100 ml sample	

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

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 - 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.

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

Pradesh.

: Ground Water

: Village- Panarjhir

: VEL Representative (Mr. Rajesh)

Report No.

: VEL/W/2209261012

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

Sampling Date

: 15/09/2022

Sampling Quantity

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

Sampling Type

: Grab

Sample Collected by

Sample Description

Location

Environmental Condition

Sampling and Analysis Protocol

: OK

: APHA & IS

S.No.	Paramater	nater Test Mathod	Result	Unit		ment as per 500-2012
					Acceptable Limit	Permissible Limits
1	pH (at 25 °C)	APHA 4500 H+B Electrometric Method:2017	7.20		6.5-8.5	No relaxation
2	Colour	APHA 2120 B Visual Comparison Method:2017	BLQ(LQQ-1.0)	Hazen Unit	5	15
3	Turbidity	APHA 2130 B Nephelometric Method:2017	BLQ(LOQ-1.0)	NTU	1	6
4	Odour	APHA 2150 B Threshold Odour Method:2017	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA 2180 B Flavor Threshold Test Method:2017	Agreeable		Agreeable	Agreeable
6	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetric Method:2017	123.05	mg/l	200	600
7	Calcium (as Ca)	APHA 3500 Ca B EDTA Titrimetric Method:2017	38.59	mg/t	75	200
8	Total Alkalinity (as CaCO3)	APHA 2320 B Titration Method:2017	120.25	mg/l	200	600
9	Chloride (as CI)	APHA 4500 CI B Argentometric Method:2017	67.99	mg/l	250	1000
10	Residual Free Chlorine (RFC)	APHA 3500 CI B lodometric 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	6.44	mg/l	30	100
13	Total Dissolved Sollds	APHA 2340 C Gravimetric Method:2017	282.00	mg/l	500	2000
14	Suiphate (as SO4)	APHA 4500 E Turbidimetric Method:2017	42.02	mg/l	200	400

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Test Report

Sample Number: VEL/GW/05 Report No. : VEL/W/2209261012

	Mumber: VEL/GVV/05		кероп но.		; VEL/VV/2208	201012
S.No.	Parameter	Test Mathod	Result	Unit		ment as per 500-2012
					Acceptable Limit	Permissible Limits
15	Fluoride (as F)	APHA 4500 F D SPADNS Method:2017	0.51	mg/t	1.0	1.5
16	Nitrate (as NO3)	IS:3025 (P-34), Chromotropic Method	3.43	mg/l	45	No relaxation
17	Iron (as Fe)	APHA, 4500 H	BLQ (LOQ-0.01)	mg/l	1.0	No relaxation
18	Atuminium (as At)	APHA, 3111 D	BLQ (LOQ-0.002)	mg/l	0.03	0.2
19	Boron (as B)	APHA, 4500 B	BLQ (LOQ-0.01)	mg/i	0.5	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 Detergents (as MBAS)	APHA 5540 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	5	15
23	Total Chromium (as Cr)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	No relaxation
24	Copper (as Cu)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	1.5
25	Manganese (as Mn)	APHA, 3111 B	BLQ (LOQ-0.01)	mg/l	0.1	0.3
26	Cadmium (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.003	No refaxation
27	Lead (as Pb)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.01	No relaxation
28	Selenium (as Se)	APHA, 3114 B	BLQ (LOQ-0.001)	mg/l	0.01	No relaxation
29	Total Arsenic (as As)	APHA, 3114 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 Qauntification, 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/05

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

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

: Ground Water

: Village- Panarjhir

: VEL Representative (Mr. Rajesh)

Report No.

: VEL/W/2209261012/N

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

Sampling Date

; 15/09/2022

Sampling Quantity

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

Sampling Type

: Grah

Environmental Condition

Sampling and Analysis

Sample Description

Sample Collected by

: OK

: APHA & I\$

Protocol

Location

ŝ.No.	Parameter	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limits
Micro	biological Analysis:					
1	E.coli	IS:15186: 2016	Absent	/100mi	Shall not be detectable in any 100 ml sample	÷
2	Total Coliform	IS:15185: 2016	Absent	/100ml	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 - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number : VEL/GW/06

Name & Address of the Party

: M/s Jhabua Power Limited.

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

Pradesh.

: Ground Water

: Village- Blnaiki

Report No.

: VELW/2209261013

Format No

7.8 F 03

Party Reference No ; 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

Sampling Quantity

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

Receipt Date

: 26/09/2022

: 15/09/2022

Sampling Date

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

Sampling Type

: Grab

Sample Collected by

Sample Description

: VEL Representative (Mr. Rajesh)

Environmental Condition

: OK

Sampling and Analysis

: APHA & IS

Protocol

Location

S.No.	Parameter	Test Mathod	Result	Unit		ment as per 500-2012
					Acceptable Limit	Permissible Limits
1	pH (at 25 °C)	APHA 4500 H+B Electrometric Method:2017	7.45	-	6.5-8.5	No relaxation
2	Colour	APHA 2120 B Visual Comparison Mathod:2017	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity	APHA 2130 B Nephelometric Method:2017	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	APHA 2150 B Threshold Odour Method:2017	Agreeable	140	Agreeable	Agreeable
5	Taste	APHA 2160 B Flavor Threshold Test Method:2017	Agreeable	•	Agreeable	Agreeable
6	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetric Mathod:2017	171.20	mg/l	200	600
7	Calcium (as Ca)	APHA 3500 Ca B EDTA Titrimetric Method:2017	53.60	mg/l	75	200
8	Total Alkalinity (as CaCO3)	APHA 2320 B Titration Method:2017	152.62	mg/l	200	600
9	Chioride (as Cl)	APHA 4500 CI B Argentometric Method:2017	58.27	mg/l	250	1000
10	Residuai Free Chiorine (RFC)	APHA 3500 Ci B lodometric 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	9.03	mg/l	30	100
13	Total Dissolved Solids	APHA 2540 C Gravimetric Method:2017	302.00	mg/l	500	2000
14	Sulphate (as SO4)	APHA 4500 E Turbidimetric Method:2017	31.93	mg/l	200	400

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





Test Report

Sample Number :	VEL/GW/06	Report No.	:	VEL/W/2209261013

S.No.	Parameter	Test Mathod	Result	Unit		ment as per 500-2012
					Acceptable Limit	Permissible Limits
15	Fluoride (as F)	APHA 4500 F D SPADNS Method:2017	0.63	mg/l	1.0	1.5
16	Nitrate (as NO3)	IS:3025 (P-34), Chromotropic Method	7.82	mg/l	45	No relaxation
17	Iron (as Fe)	APHA, 4500 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, 4500 B	BLQ (LOQ-0.01)	mg/l	0.5	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 Detergents (as MBAS)	APHA 5540 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	5	15
23	Total Chromium (as Cr)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	No relaxation
24	Copper (as Cu)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	1.5
25	Manganese (as Mn)	APHA, 3111 B	BLQ (LOQ-0.01)	mg/l	0.1	0.3
26	Cadmium (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.003	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	BLQ (LOQ-0.001)	mg/l	0.01	No relaxation
29	Total Arsenic (as As)	APHA, 3114 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







Test Report

Sample Number : VEL/GW/06 Name & Address of the Party

: M/s Jhabua Power Limited.

: VEL Representative (Mr. Rajesh)

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

Pradesh.

: Ground Water

: Village-Binaiki

Report No.

: VEL/W/2209261013/N

Format No

Party Reference No 👍 4300005298

Reporting Date

: 30/09/2022

7.8 F 03

Period of Analysis

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

Receipt Date

: 26/09/2022

Sampling Date

; 15/09/2022

Sampling Quantity

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

Sampling Type

: Grab

Environmental Condition

: OK

Sampling and Analysis

Sample Description

Sample Collected by

Location

: APHA & IS

S.No.	Parameter	Test Mathod	Result	Unit	Requirement as por IS:10500-2012	
					Acceptable Limit	Permissible Limits
Micro	blological Analysis:			-		
1	E.coli	IS:15185: 2016	Absent	/100ml	Shali not be detectable in any 100 ml sample	-
2	Total Coliform	IS:15185: 2016	Absent	/100ml	Shall not be detectable in any 100 ml sample	

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

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 - 122051 (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- Attaria, Tehsil- Ghansore, Distt-Seoni, Madhya

: Ground Water

: Village- Durjanpur

Report No.

: VEL/W/2209261014

Format No Party Reference No

. 7.8 F 03 ; 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

Sampling Quantity

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

Receipt Date

; 26/09/2022

Sampling Date

: 15/09/2022

Sampling Typo

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

Environmental Condition

Sampling and Analysis

Sample Description

Sample Collected by

: APHA & IS

Protocol

Location

S.No.	Parameter	Test Mathod	Result	Unit		ment as per 500-2012	
					Acceptable Limit	Permissible Limits	
1	pH (at 25 °C)	APHA 4500 H+B Electrometric Method:2017	7.52	-	6.5-8.5	No relaxation	
2	Colour	APHA 2120 B Visual Comparison Method:2017	BLQ(LOQ-1.0)	Hazen Unit	5	15	
3	Turbidity	APHA 2130 B Nephelometric Method:2017	BLQ(LOQ-1.0)	NTU	1	5	
4	Odour	APHA 2150 B Threshold Qdour Method:2017	Agreeable	141	Agreeable	Agreeable	
5	Taste	APHA 2160 B Flavor Threshold Test Method:2017	Agreeable		Agreeable	Agreeable	
6	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetric Method:2017	187.25	mg/l	200	600	
7	Calcium (as Ca)	APHA 3500 Ca B EDTA Titrimetric Method:2017	55.75	mg/l	75	200	
8	Total Alkalinity (as CaCO3)	APHA 2320 B Titration Method:2017	143.37	mg/l	200	600	
9	Chloride (as CI)	APHA 4500 CI B Argentometric Method:2017	63.13	mg/l	250	1000	
10	Residual Free Chlorine (RFC)	APHA 3500 CI B lodometric 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	mg/l	30	100	
13	Total Dissolved Solids	APHA 2540 C GravImetric Method:2017	345.00	mg/l	500	2000	
14	Sulphate (as SO4)	APHA 4500 E Turbidimetric Method:2017	34.58	mg/l	200	400	

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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/2209261014
Sample Number :	VEL/GW/07	Report No.	: VEL/W/2209261014

S.No.	Parameter	Test Mathod	Result	Unit		ment as per 500-2012
					Acceptable Limit	Permissible Limits
15	Fluoride (as F)	APHA 4500 F D SPADNS Method:2017	0.65	mg/l	1.0	1.5
16	Nitrate (as NO3)	IS:3025 (P-34), Chromotropic Method	7.7641	mg/l	45	No relaxation
17	Iron (as Fe)	APHA, 4500 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, 4500 B	BLQ (LOQ-0.01)	mg/l	0.5	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 Detergents (as MBAS)	APHA 5540 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	5	15
23	Total Chromium (as Cr)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	No relaxation
24	Copper (as Cu)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	1.5
25	Manganese (as Mn)	APHA, 3111 B	BLQ (LOQ-0.01)	mg/l	0.1	0.3
26	Cadmium (as Cd)	APHA, 3111 B	BLO (LOQ-0.002)	mg/l	0.003	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	BLQ (LOQ-0.001)	mg/l	0.01	No relaxation
29	Total Arsenic (as As)	APHA, 3114 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/07

Name & Address of the Party

: M/s Jhabua Power Limited.

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

: Ground Water

: Village- Durjanpur

Report No.

VEL/W/2209261014/N

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

Format No

7.8 F 03 : 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

Party Reference No

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

Receipt Date

: 26/09/2022

Sampling Date

Sampling Type

Sampling Quantity

: 15/09/2022

: Grab

: VEL Represontative (Mr. Rajesh)

Sample Collected by

Environmental Condition

: OK

Sampling and Analysis

Sample Description

: APHA & IS

Location

S.No.	Parameter	Test Mathod	Resuit	Unit	Requirement as per is:10500-2012	
					Acceptable Limit	Permissible Limits
Micr	obiological Analysis:					
1	E.coli	IS:15185: 2016	Absent	/100mi	Shaii not be detectable in any 100 mi sample	•
2	Total Coliform	iS:15185: 2016	Absent	/100m1	Shaii not be detectable in any 100 ml sample	4

***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 - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number:

Name & Address of the Party

VEL/GW/03

ı dürli mir mindi maşikasili yaşını yaşıyağı yili çığı mişikağı ili yaşıkayı ili dili ili ili ili ili ili ili i

: M/s Jhabua Power Limited.

: VEL Representative (Mr. Rajesh)

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

Pradesh.

: Ground Water

: Village- Guneri

Report No.

: VEL/W/2209261015

Format No

7.8 F 03

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

Sampling Quantity

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

Receipt Date

: 26/09/2022

Sampling Date

: 15/09/2022

Sampling Typo

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

: Grab

Environmental Condition

Sample Description

Sample Collected by

: OK

Sampling and Analysis

: APHA & IS

Deathard

Location

S.No.	Parameter	Test Mathod	Result	Unit		ment as per 500-2012
					Acceptable Limit	Permissible Limite
1	pH (at 25 °C)	APHA 4500 H+B Electrometric Method:2017	7.40	_	6.5-8.5	No relaxation
2	Colour	APHA 2120 B Visual Comparison Method:2017	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity	APHA 2130 B Nephelometric Mathod:2017	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	APHA 2150 B Threshold Odour Mathod:2017	Agreeable		Agreeable	Agreeable
5	Taste	APHA 2160 B Flavor Threshold Test Method:2017	Agreeable		Agreeable	Agreeable
6	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetric Method:2017	165.85	mg/l	200	600
7	Calcium (as Ca)	APHA 3500 Ca B EDTA Titrimetric Method:2017	60.03	mg/l	75	200
8	Total Aikalinity (as CaCO3)	APHA 2320 B Titration Method:2017	138.75	mg/l	200	600
9	Chloride (as Cl)	APHA 4500 CI B Argentometric Mathod:2017	67.99	mg/l	250	1000
10	Residual Free Chlorine (RFC)	APHA 3500 CI B lodometric 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	3.83	mg/l	30	100
13	Total Dissolved Solids	APHA 2540 C Gravimetric Method:2017	335.00	mg/l	500	2000
14	Sulphate (as SO4)	APHA 4500 E Turbidimetric Mathod:2017	38.56	mg/l	200	400

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Ph: 9124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardan.co.in, bd@vardan.co.in









Test Report

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

S.No.	Parameter	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limits
15	Fluoride (as F)	APHA 4500 F D SPADNS Method:2017	0.79	mg/l	1.0	1.5
16	Nitrate (as NO3)	IS:3026 (P-34), Chromotropic Method	8.52	mg/i	45	No relaxation
17	Iron (as Fe)	APHA, 4500 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, 4500 B	BLQ (LOQ-0.01)	mg/l	0.5	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 Detergents (as MBAS)	APHA 5540 C MBAS Method	BLQ(LOQ-0.0 5)	mg/l	0.2	1.0
22	Zinc (as Zn)	АРНА, 3111 В	BLQ (LOQ-0.01)	mg/i	5	15
23	Total Chromium (as Cr)	АРНА, 3111 В	BLQ (LOQ-0.002)	mg/l	0.05	No relaxation
24	Copper (as Cu)	АРНА, 3111 В	BLQ (LQQ-0.002)	mg/l	0.05	1.5
25	Manganese (as Mn)	APHA, 3111 B	BLQ (LOQ-0.01)	mg/l	0.1	0.3
26	Cadmium (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.003	No relaxation
27	Lead (as Pb)	APHA, 3111 B	BLO (LOQ-0.002)	mg/l	0.01	No relaxation
28	Setenium (as Se)	APHA, 3114 B	BLQ (LOQ-0.001)	mg/l	0.01	No relaxation
29	Total Arsenic (as As)	APHA, 3114 B	BLQ (LOQ-0.005)	mg/l	0.01	No relexation
30	Mercury (as Hg)	APHA, 3112 B	BLQ (LOQ-0.0005)	mg/l	0.001	No relexation

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

End of Report



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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/03

Name & Address of the Party

: M/s Jhabua Power Limited.

: VEL Representative (Mr. Rajesh)

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

: Ground Water

: Village- Guneri

Report No.

VEL/W/2209261015/N

Format No

- 7.8 F 03

Party Reference No

: 4300005298

Reporting Date

: 30/09/2022

Pariod of Analysis

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

Receipt Date

: 26/09/2022

Sampling Date

: 15/09/2022

Sampling Quantity

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

Sampling Type

: Grab

Sample Collected by

Sample Description

Environmental Condition

Sampling and Analysis

: OK

: APHA & IS

Location

S.No.	Paramater	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limits
Micro	 obiological Analysis:			-		
1	E.coli	(S:15185: 2016	Absent	/100m1	Shall not be detectable in any 100 ml sample	
2	Total Coliform	IS:15185: 2016	Absent	/100ml	Shall not be detectable in any 100 ml sample	7.0

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

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 - 122051 (Haryana) ISO 9001 | ISO 14001 | ISO 45001





Test Report

Sample Number: VEL

VEL/GW/04

Name & Address of the Party

M/s Jhabua Power Limited.

: VEL Representative (Mr. Rajesh)

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

Pradesh.

: Ground Water

: Village- Dola

Report No.

VEL/W/2209261016

Format No Party Reference No 7.8 F 03

Reporting Date

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; 30/09/2022

Pariod of Analysis

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

Receipt Date

: 26/09/2022

Sampling Date

: 15/09/2022

Sampling Quantity

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

Sampling Typo

: Grab

Sample Collected by

Sample Description

ample collected by

Environmental Condition

: OK

Sampling and Analysis

: APHA & IS

Protocol	
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Location

\$.No.	Paramater	Test Mathod	Result	Unit	Requirement as per 1S:10500-2012	
					Acceptable Limit	Permissible Limits
1	pH (at 25 °C)	APHA 4500 H+B Electrometric Method:2017	7.42	-	6.5-8.5	No relaxation
2	Colour	APHA 2120 B Visual Comperison Method:2017	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity	APHA 2130 B Nephelometric Method:2017	BLQ(LOQ-1.0)	UTM	1	5
4	Odour	APHA 2150 B Threshold Odour Method:2017	Agreeable		Agreeable	Agreeable
5	Taste	APHA 2160 B Flavor Threshold Test Method:2017	Agreeable	-	Agreeable	Agreeable
6	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetric Method:2017	187.25	mg/l	200	600
7	Calcium (as Ca)	APHA 3500 Ca B EDTA Titrimetric Method:2017	57.89	mg/l	75	200
8	Total Alkalinity (as CaCO3)	APHA 2320 B Titration Method:2017	161.87	mg/l	200	600
9	Chioride (as Ci)	APHA 4500 CI B Argentometric Method:2017	55.85	mg/l	250	1000
10	Residual Free Chlorine (RFC)	APHA 3500 Cl B lodometric 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	10.33	mg/l	30	100
13	Total Dissolved Solids	APHA 2540 C Gravimetric Method:2017	326.00	mg/l	500	2000
14	Sulphete (as SO4)	APHA 4500 E Turbidimetric Method:2017	40.64	mg/l	200	400

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Page No. 1/2

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CR (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/04 Report No. : VEL/W/2209261018

5.No.	Parameter	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
				Acceptable Limit	Permissible Limits	
15	Fluoride (as F)	APHA 4500 F D SPADNS Method:2017	0.67	mg/l	1.0	1.5
16	Nitrate (as NO3)	IS:3025 (P-34), Chromotropic Method	8.52	mg/l	45	No relaxation
17	Iron (as Fe)	APHA, 4500 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, 4500 B	BLQ (LOQ-0.01)	mg/l	0.5	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 Detergents (as MBAS)	APHA 5840 C MBAS Mathod	BLQ(LOQ-0.0 5)	mg/l	0.2	1.0
22	Zinc (as 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	0.05	No relaxation
24	Copper (as Cu)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	1.5
25	Manganese (as Mn)	APHA, 3111 B	BLQ (LOQ-0.01)	mg/l	0.1	0.3
26	Cadmium (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.003	No relaxation
27	Lead (as Pb)	АРНА, 3111 В	BLQ (LOQ-0.002)	mg/l	0.01	No relaxation
28	Selenium (as Se)	APHA, 3114 B	BLQ (LOQ-0.001)	mg/l	0.01	No relaxation
29	Total Arsenic (as As)	АРНА, 3114 В	BLQ (LOQ-0.005)	mg/i	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 :

Name & Address of the Party

VEL/GW/04

: M/s Jhabua Power Limited.

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

: VEL Representative (Mr. Rajesh)

Pradesh.

: Ground Water

: Village- Dola

Report No.

: VEL/W/2209261016/N

Format No

: 7.8 F 03

Reporting Date

: 4300005298

Period of Analysis

Party Reference No

: 30/09/2022

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

Receipt Date

: 26/09/2022

Sampling Date

: 15/09/2022

Sampling Quantity

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

Sampling Type

: Grab

Sample Collected by **Environmental Condition**

Sample Description

Sampling and Analysis

: OK

: APHA & IS

Location

S.No.	Paramater	Test Mathod	Result	Unit	Requirement as per 18:10500-2012	
					Acceptable Limit	Permissible Limite
Micro	 biological Analysis:		-	-		
1	E.coll	IS:15185: 2016	Absent	/100ml	Shail not be detectable in any 100 ml sample	-
2	Total Coliform	IS:15185: 2016	Absent	/100mi	Shali not be detectable in any 100 ml sample	*

BLQ-Below Limit of Quantification, LOQ-Limit 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 : Name & Address of the Party

VEL/GW/08

Ms Jhabua Power Limited.

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

Pradesh.

: Ground Water

: Village- Gorakhpur

: VEL Representative (Mr. Rajesh)

Report No.

: VEL/W/2209261017

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

Sampling Date

; 15/09/2022

Sampling Quantity

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

Sampling Type

: Grab

Sample Collected by

Sample Description

Environmental Condition

Sampling and Analysis

: OK : APHA & IS

Protocol

Location

S.No.	Parameter	Test Mathod	Resuit	Unit	Requirement as per IS:10500-2012	
					Acceptable Limit	Permissible Limits
1	pH (at 25 °C)	APHA 4500 H+B Ejectrometric	7.50		6.5-8.5	No relaxation
Ė,	pr. (d. 20 d)	Method:2017	1.50		0.0 0.0	NO IOIGABLOII
2	Colour	APHA 2120 B Visual Comparison Method:2017	BLQ(LOQ-1.0)	Hazen Unit	5	15
3	Turbidity	APHA 2130 B Nephelometric Method:2017	BLQ(LOQ-1.0)	NTŲ	1	5
4	Odour	APHA 2150 B Threshold Odour Mathod:2017	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA 2160 B Flavor Threshold Test Method:2017	Agreeable	-	Agreeable	Agreeable
6	Total Hardness (as CaCO3)	APHA 2340 C EDTA Titrimetric Method:2017	171.20	mg/l	200	600
7	Calcium (as Ca)	APHA 3500 Ca B EDTA Titrimetric Method: 2017	55.75	mg/l	75	200
8	Total Alkalinity (as CaCO3)	APHA 2320 B Titration Method:2017	148.00	mg/i	200	800
9	Chioride (as CI)	APHA 4500 CI B Argentometric Method:2017	42.62	mg/l	250	1000
10	Residual Free Chlorine (RFC)	APHA 3500 CI B lodometric Method:2017	BLQ(LOQ-0.1 5)	mg/i	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	7.73	mg/i	30	100
13	Total Dissolved Solids	APHA 2840 C Gravimetric Method:2017	320.00	mg/l	500	2000
14	Suiphate (as 804)	APHA 4500 E Turbidimetric Method:2017	32.48	mg/l	200	400

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



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





Test Report

Sample Number :	VEL/GW/08	Report No.	; VEL/W/2209261017

S.No.	Paramater	Test Mathod	Result	Unit		ment as per 500-2012
					Acceptable Limit	Permissible Limits
15	Fluoride (as F)	APHA 4500 F D SPADNS Method:2017	0.66	mg/l	1.0	1.5
16	Nitrate (as NO3)	is:3025 (P-34), Chromotropic Method	6.68	mg/l	45	No relaxation
17	iron (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, 4500 B	BLQ (LOQ-0.01)	mg/l	0.5	2.4
20	Phenoiic Compounds (as C6H5OH)	APHA 5530 C Chioroform Extraction Method:2017	BLQ(LOQ-0.0 004)	mg/l	0.001	0.002
21	Anionic Datergents (as MBAS)	APHA 5540 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	5	15
23	Total Chromium (as Cr)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	No relaxation
24	Copper (as Cu)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.05	1.5
25	Manganese (as Mn)	APHA, 3111 B	BLQ (LOQ-0.01)	mg/l	0.1	0.3
26	Cadmium (as Cd)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/l	0.003	No reiaxation
27	Lead (as Pb)	APHA, 3111 B	BLQ (LOQ-0.002)	mg/i	0.01	No relaxation
28	Seienium (as Sa)	APHA, 3114 B	BLQ (LOQ-0.001)	mg/l	0.01	No relaxation
29	Total Arsenic (as As)	APHA, 3114 B	BLQ (LOQ-0.005)	mg/l	0.01	No relaxation
30	Mercury (as Hg)	APHA, 3112 B	BLQ (LOQ-0.0005)	mg/i	0.001	No relaxation

BLQ-Belove Innit of Quantification, LOQ-Limit of Quantification.

End of Report

Page No. 2/2

(Approved By)



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



Test Report

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

: M/s Jhabua Power Limited.

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

Report No.

: VEL/W/2209261017/N

Pormat No

7.8 F 03

Party Reference No

: 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

Sampling Quantity

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

Receipt Date

: 26/09/2022

Sampling Date

: 15/09/2022

Location

: Ground Water : Village- Gorakhpur

Sample Collected by

Sample Description

: VEL Representative (Mr. Rajesh)

Environmental Condition

Sampling and Analysis

: 2 Ltr.+2 Ltr. +1 Ltr.+250 ml Sampling Type : Grab

Protocoi

: APHA & IS

S.No.	Parameter	Test Mathod	Result	Unit	Requirement as per IS:10500-2012	
					Shall not be detectable in any 100 mi sample Shall not be detectable in	Permissible Limits
Micro	bbiological Analysis:		-	4		
1	E.coll	IS:15185: 2016	Absent	/100ml	detectable in any 100 mi	*
2	Total Coliform	IS:15185: 2016	Absent	/100ml	1	•

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

End of Report

SATYA DEV

Dy. Technical Manager-Micro

D (Approved By)

Page No. 1/1



Authentication letter of CGWA/CGWB

No.1-8/NCR/TS (CGWA)-Government of India Central Ground Water Board North Central Region Block-1, 4th Floor, Paryavas Bhawan 38 Arera Hills, Jail Road Bhopal – 462 011 Date 08-10-2014

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M/s Jhabua Power Ltd..
6th & 6th Floor, Vatika City Point
M.G.Road,
Gurgaon- 122002

Sub: Rain Water Harvesting proposal for the proposed Jhabua Power Project at villages Barela & Gorakpur, Tehsil-Ghansola, District-Seoni.

Ref: Your letters dated 02/01/14, 24/04/2014 & 17/07/2014.

With reference to the above, the report on" Hydrogeological Investigation for Rainwater Harvesting and Artificial Recharge at Jhabua Power Ltd, Barela, District Seoni, Madhya Pradesh" for seeking guidelines on construction of Rainwater harvesting system as per item xvi of MOEF letter No.J-13012/105/2008-iA.ii(T) dated 17-02-2010, the report was examined. The following observations are made.

- The implementation of rainwater harvesting structures at the Jhabua Power Project at villages Barela & Gorakpur, Tehsil-Ghansora, District-Seoni shall be carried out in accordance with the design mentioned in the report.
- 2. While implementation of the recharge structures, necessary intake capacity tests of the recharge structures may be carried out to ensure the efficacy of the constructed structures. The lithologs of the recharge wells and the data of intake capacity tests may be submitted to CGWB, NCR, Bhopal.
- 3. Firm at its own cost shall install piezometers at suitable locations for ground water monitoring in the project area on regular basis (once in a month). The ground water monitoring data may be submitted on quarterly basis to the office of CGWB, NCR, Bhopal.

- 4. The ground water quality in and around the project area should be monitored twice in each year both during pre-monsoon and post-monsoon period and the data submitted to this office regularly.
- The compliance report and photographs of recharge structures after completion of the same are to be furnished to CGWB, NCR, Bhopal for verification.
- 6. If there is any abstraction of ground water for the project at any stage, it is manadatory to obtain NOC from CGWA.
- The firm shall comply with all the directions of CGWA from time to time with respect to recharge of ground water in and around the project area.

Based on the report, construction of the proposed rain water harvesting and artificial recharge structures in the project area is recommended, subject to the above mentioned conditions.

Yours Faithfully en 8 10 (Parvinder Singh) Regional Director

Copy for information to:

- The Member Secretary, Central Ground Water Anthority, West Block-2, Wing-3, Sector-1, R.K.Puram, New Delhi-110066.
- The Director, Ministry of Environment & Forest, Government of India, Paryavaran Bhawan, CGO Complex, Lodi Road, New Delhi 110003.

(Parvinder Singh) Regional Director

Analysis Report of Ash pond effluent



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





TC-6299

Test Report

Sample Number: VEL/WW/04

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

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

Pradesh.

Report No. ; VEL/WW/2209261004

Format No ; 7.8 F-03

Party Reference No : 4300005298 Reporting Date : 03/10/2022

Parlod of Analysis : 26/09/2022-03/10/2022

: Grab

Receipt Date : 26/09/2022

Sampling Date : 16/09/2022 Sampling Quantity : 2.0 Ltrs.

Sampling Type

Sample Description

: Waste Water : Ash Pond Effluent

Sample Collected By

: VEL Representative (Mr. Rajesh)

Environmental Condition

: OK

Sampling and Analysis

: APHA & IS

Protocol

Location

S.No.	Test Parameters	arameters Test Method		Unit
1	pH	APHA 4500 H+B Electrometric Method:2017	7.35	- 12
2	Total Suspended Solids, max.	APHA 2540 D Gravimetric Method	32.00	mg/l
3	Oil & Grease, Max.	APHA 5520 B Partition Gravimetric Method:2017	0.40	mg/l
4	Lead (as Pb)	APHA 3111 B Direct Air Acetylene FLame Method:2017	*BLQ(**LOQ-0.002)	mg/l
5	Total Chromium (as Cr) max.	APHA 3111 B Direct Air Acetylene FLame Method:2017	*BLQ(**LOQ-0,002)	mg/l
6	Arsenic (as As)	APHA 3114 B:2017	*BLQ(**LOQ-0.005)	mg/l
7	Mercury (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

Annexure -4 The radioactivity content study in coal & Fly ash



invoice No.: RAL/106/19-20

BOARD OF RADIATION AND ISOTOPE TECHNOLOGY GOVERNMENT OF INDIA - DEPARTMENT OF ATOMIC ENERGY

TEL: 022-27887418 TELE-FAX: 022-27887413

E-mail: ralvashl@britatom.gov.in WEBSITE: www.britatom.gov.in

Radioanalytical Laboratory

INVOICE

BRIT-BARC Vashi Complex Navi Mumbai - 400 703

12/04/2019

То

C-RAL/2782 M/S. JHABUA POWER LIMITED VILLAGE-BARELA, GORAKHPUR, POST OFFICE-ATTARIA, TEHSIL-GHANSORE SEONI - 480997

Cust. GSTIN: 23AABCK3364R1Z7

Sample Reg.No.: D-632-39

BRIT GSTIN: 27AAAGB0360B1Z8

Order Ref: JPL/ENV/JAN/02 dated 10/01/2019

Description	No. of Tests per Sample	Rate per Test (Rs.)	No. of Samples	Amount (Rs.)
Measurement and certification of Radioactivity content in commodities	4	3400.00	2	27200.00
Trans-		(SAC	: 998346) IGST @ 18.00%	4896.00
	the state of the s		Total Amount	32096

Bank Details for Electronic/DD Payments:

Name of Account Holder:	Pay & Accounts Officer, Board of Radiation and Isotope Technology	_		
Email Id :	pao@britatom.gov.in, aaocs@britatom.gov.in, ralvashi@britatom.gov.in			
Bank Name :	State Bank of india			
Branch Name & Code :	BARC Branch, Trombay, Mumbai - 85 Code: 0001268 (Tel No.: 022-25592781)			
Account No. :	303 943 372 26			
IFSC Code:	SBIN 0001268			
Account Type :	BRIT Parking Account			
Bankers MICR Code :	400 002 006 (BARC Branch)	_		
Demand Draft :	In favor of Accounts Officer, BRIT payable at Mumbai	_		

Note

- 1. No income tax is deductable under section 196 of IT act, 1961 on any payment made to Board of Radiation and Isotope Technology (BRIT), since BRIT is under Department of Atomic Energy, Government of India.
- 2. In case of Electronic payment, you are requested to provide invoice no. and customer name on the transaction slip for identification.

देविका. के / Devika. K. वैज्ञानिक अध्यापि Scientific Officer वैज्ञानिक अध्यापि Scientific Officer शिक्षाविकार्य में शिक्षाविकार्य अहमी शिक्षाविकार्य शिक्षाविकार विकास पूर्व आहमी दोष मोद्योगिकी बोर्ड विकास पूर्व आहमी दोष मोद्योगिकी बोर्ड

Board of Radiation & Isotope Technology, सेवटर/Sector-20, वाशी संकुल / Vashi Complex नवी मुंबई/Navi Mumbai - 400 703





क्रम सं./ SL. NO. : 4372 A 37134

ब्रिट / बीएआरसी वाशी कॉम्प्लेक्स, BRIT/ BARC Vashi Complex, सेक्टर-20, वाशी / Sec-20, Vashi, नवी मुंबई/ Navi Mumbai-400 703 www.britatom.gov.in

भारत सरकार / GOVERNMENT OF INDIA

परमाणु ऊर्जा विभाग / DEPARTMENT OF ATOMIC ENERGY विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड/ BOARD OF RADIATION & ISOTOPE TECHNOLOGY

रेडियोसक्रियता परीक्षण प्रमाण-पत्र / RADIOACTIVITY TEST CERTIFIC

RADIOANALYTICAL LABORATORY

Ref: BRIT/RAL/D/632-39/MISC/530-37/18-19

FEB 28, 2019

M/S. JHABUA POWER LIMITED **VILLAGE -BARELA, POST-ATARIA,** TEHSIL-GHANSORE, DIST-SEONI, PIN 480997 **MADHYA PRADESH**

This is regarding the " LINKAGE COAL AND FLYASH " samples submitted by you vide letter ref no. JPL/ENV/JAN/02 dated 10.01.2019 for radioactivity analysis.

SL.NO.	SAMPLE DESCRIPTION	DATE OF SAMPLING	TOTAL BULK QUANTITY FROM WHICH SAMPLE IS DRAWN
1	LINKAGE COAL FOR 1X600 MW COAL BASED THERMAL POWER PLANT M/S. JHABUA POWER LIMITED	10.01.2019	25000 MT
2	FLY ASH FROM 1X600 MW COAL BASED THERMAL POWER PLANT M/S. JHABUA POWER LIMITED	10.01.2019	2300 MT

Date of receipt of sample: 17.01.2019

Date of completion of test: 20.02.2019

The samples were analysed for U-238, Ra-226, Th-232, & K-40 radioactivity content and the values obtained are as follows:

SR NO	SAMPLE DETAILS	U-238 (Bq/Kg)	Ra-226 (Bq/Kg)	Th-232 (Bg/Kg)	K-40 (Bq/Kg)
1	LINKAGE COAL	44 ± 1.0	49.8 ± 2.6	60 ± 1.4	55.3 ± 1.7
2	FLY ASH	160.6 ± 4.3	63.8 ± 5.8	175.2 ± 5.5	248.6 ± 14.7

The measurement values are below the clearance level for radionuclides of natural origin in bulk solid materials, as per AERB directive 01/2010 (table-3) dated 26/11/2010.

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

checked by: (AJAY. N. THAMKE)

Authorized Signatory

एन. जयचंद्रन N. Jayachandran प्रभारी अधिकारी / Officer-In-Charge

रेडियोवैश्लेषक प्रयोगशाला / Radioanalytical Laboratory विकिरण एवं आइसोटोप प्रौद्योगिकी बोर्ड

Board of Radiation & Isotope Technology, सेक्टर / Sector-20, वाशी संकुल / Vashi Complet नवी मुंबई / Navi Mumbai - 400 703

End of Report**

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



















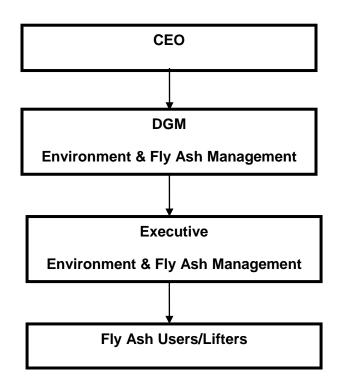






Details of Environment Management cell

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)

Noise level monitoring report



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





Test Report

Sample Number: VEL/N/01

VEL/N/2209261001

Name & Address of the Party

M/s Jhabua Power Limited.

Report No. Format No

7.8 F-03

P.O- Attaria, Tehsil- Ghansore, Distt-Seoni, Madhya Pradesh.

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

· 26/09/2022

Period of Analysis

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

Sample Description

: AMBIENT NOISE

Receipt Date

General Information

Sampling Location

Project Site (Jhabua Power Plant)

Sample Collected By

VEL Representative (Mr. Rajesh)

Sampling Equipment used

Sound Level Meter

Instrument Code

VEL/SLM/01

Instrument Calibration Status

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

15/09/2022 To 16/09/2022

Time of Monitoring

: 06:00 AM to 06:00 AM

Ambient Temperature (°C)

: Min,23°C, Max,28°C

Surrounding Activity

Human & Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Sampling & Analysis Protocol Sampling Duration

CPCB 24.0 Hours

Parameter Required

: As per work order

S.No.	Parameters	Test Method	Test Results		
			Day Time (6:00 am to 10:00 pm)	Nignt Time (10:00 pm to 6:00 am)	
1	Leq	I S-9989	62.11	53.78	dB (A)
2	CPCB Limits in dB(A*) Leq (Industrial Area)		75	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)	-	55	45	dB (A)
4	CPCB Limits in dB(A*) Leq (Commercial Area)		65	55	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

(checked 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/02

Name & Address of the Party

M/s Jhabua Power Limited

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

Report No.

VEL/N/2209261002

Format No

7.8 F-03

Party Reference No.

: 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

Receipt Date

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

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 Monitoring

Time of Monitoring Ambient Temperature (°C)

Surrounding Activity

Scope of Monitoring Sampling & Analysis Protocol

Sampling Duration Parameter Required

VIIIage-Barela

VEL Representative (Mr. Rajesh)

Sound Level Meter VEL/SLM/02

Calibrated

Clear Sky

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

: 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

S.No.	Parameters	Test Method	Test Results		
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	I S-9989	51.26	42.64	dB (A)
2	CPCB Limits in dB(A*) Leq (industrial Area)		75	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)	x.	55	45	dB (A)
4	CPCB Limits in dB(A*) Leq (Commercial Area)	we	65	55	dB (A)
5	CPCB Limits in dB(A*) Leq (Silent Zone)	**	50	40	dB (A)

Nete-*A "decibel" 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/03

Name & Address of the Party

: M/s Jhabua Power Limited

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

Report No.

VEL/N/2209261003

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 NOISE

General Information

Sampling Location

Sample Collected By

Sampling Equipment usod

Instrument Code

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring Ambient Tamperature (°C)

Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol Sampling Duration

Parameter Required

Village-Gorakhpur

VEL Representative (Mr. Rajesh)

Sound Level Meter VEL/SLM/03

Calibrated

Clear Sky

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

: 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

\$.No.	Parameters	Test Method	Test	Results	Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	I S-9989	54.16	43.82	dB (A)
2	CPCB Limits in dB(A*) Leq (Industrial Area)		75	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)	***	55	45	dB (A)
4	CPCB Limits in dB(A*) Leq (Commercial Area)		65	55	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

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

M/s Jhabua Power Limited.

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

Report No.

VEL/N/2209261004

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 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 Monitoring Ambient Temperature (°C)

Surrounding Activity Scope of Monitoring

Sampling & Analysis Protocol **Sampling Duration** Parameter Required

Village-Binaiki

VEL Representative (Mr. Rajesh)

Sound Level Meter VEL/SLM/01

Calibrated

Clear Sky

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

: 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

S.No.	Parameters	Test Method	Test I	Results	Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	I S-9969	50.65	41.22	dB (A)
	CPCB Limite in dB(A*) Leq (industrial Area)	3	76	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)	70	55	45	dB (A)
4	CPCB Limits In dB(A*) Leq (Commercial Area)	77	65	55	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

obecked 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/05

Name & Address of the Party

M/s .lhabua Power Limited.

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

Report No.

VEL/N/2209261005

Format No

7.8 F-03

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

Period of Analysis Receipt Date

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

Sample Description

: AMBIENT NOISE

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Code

Instrument Calibration Status

Meteorological condition during monitoring

Dete of Monitoring Time of Monitoring Ambient Temperature (°C)

Surrounding Activity Scope of Monitoring

Sampling & Analysis Protocol **Sampling Duration**

Parameter Required

Village-Panarjhir

VEL Representative (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.28°C

: Human & Vehicular Activities

: Regulatory Requirement

: CPCB 24.0 Hours

: As per work order

S.No.	Parameters	Test Method	Test I	Results	Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	I S-9989	52.74	41.28	dB (A)
2	CPCB Limits in dB(A*) Leq (Industrial Area)	9 78	75	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)		55	45	dB (A)
4	CPCB Limite in dB(A*) Leq (Commercial Area)	es.	65	55	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

wood! (Checked By)

SUBODH SHEKHAWAT D., 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

Report No.

: VEL/N/2209261006

Name & Address of the Party

Ms Jhabua Power Limited.

Format No

7.8 F-03

P.O- Attaria, Tehsil- Ghansore, Distt-Seoni, Madhya Pradesh.

Party Reference No ; 4300005298

Reporting Date

: 30/09/2022

Period of Analysis 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 Meter

Instrument Code

VEL/SLM/03

Instrument Calibration Status

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

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

Time of Monitoring Ambient Temperature (°C) 06:00 AM to 06:00 AM Min.23°C. Max.28°C

Surrounding Activity

: Human & Vehicular Activities Regulatory Requirement

Scope of Monitoring Sampling & Analysis Protocol

CPCB

Sampling Duration

: 24.0 Hours

Parameter Required

As per work order

S.No.	Parameters	Test Mothod	Test	Results	Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	I S-9989	60.32	54.16	dB (A)
2	CPCB Limits in dB(A*) Leq (Industrial Area)		75	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)		55	45	dB (A)
4	CPCB Limits in dB(A*) Leq (Commercial Area)		65	55	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

(Checked 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 :

Name & Address of the Party

VEL/N/07

M/s Jhabua Power Limited.

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

Report No.

: VEL/N/2209261007

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

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

: Village- Guneri

VEL Representative (Mr. Rajesh)

Sound Level Meter

VEL/SLM/01

Calibrated

Clear Sky

: 17/09/2022 To 18/09/2022 : 06:00 AM to 06:00 AM

: Min.23°C, Max.29°C

: Human & Vehicular Activities

: Regulatory Requirement

CPCB

: 24.0 Hours

: As per work order

S.No.	Parameters	Test Method	Test	Results	Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	I S-9989	52.48	41.76	dB (A)
2	CPCB Limits in dB(A*) Leq (Industrial Area)		76	70	dB (A)
3	CPCB Limits in dB(A*) Leq (Residential Area)		55	45	dB (A)
4	CPCB Limits In dB(A*) Leq (Commercial Area)	144	65	55	dB (A)
5	CPCB Limits in dB(A*) Leq (Silent Zone)	**	50	40	dB (A)

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

End of Report

(Checked 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/08 Name & Address of the Party

: M/s Jhabua Power Limited.

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

Pradesh.

Report No.

: VEL/N/2209261008

Pormat 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 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 Monitoring

Ambient Temperature (°C)

Surrounding Activity

Scope of Monitoring Sampling & Analysis Protocol

Sampling Duration Parameter Required Village- Dola

VEL Representative (Mr. Rajesh)

Sound Level Meter

VEL/SLM/02

Calibrated

: Clear Sky

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

: 06:00 AM to 06:00 AM

Min.23°C, Max.29°C

: Human & Vehicular Activities

: Regulatory Requirement **CPCB**

: 24.0 Hours

As per work order

S.No.	Parameters	Test Method	Day Time (6:00 am to 10:00 pm) 6:00 am)	Test Results		Units
				Night Time (10:00 pm to 6:00 am)		
1	Leq	I S-9989	51.62	40.89	dB (A)	
2	CPCB Limits in dB(A*) Leq (Industrial Area)		76	70	dB (A)	
3	CPCB Limits in dB(A*) Leq (Residential Area)	**	55	45	dB (A)	
4	CPCB Limits in dB(A*) Leq (Commercial Area)		65	55	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

Checked By) SUBODH SHEKHAWAT DY. TECHNICAL MANAGER

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





Test Report

Sample Number:

Name & Address of the Party

VEL/N/09

* M/s .lhahua Power Limited

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

Report No.

VEL/N/2209261009

Format No

7.8 F-03

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

Pariod of Analysis

: 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 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-Durjanpur

VEL Representative (Mr. Rajesh)

Sound Level Meter

VEL/SLM/03

Calibrated

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

: 06:00 AM to 06:00 AM

: Min.23°C, Max.29°C

Human & Vehicular Activities

Regulatory Requirement

CPCB 24.0 Hours

: As per work order

3 .No.	Parameters	Test Method	Test	Results	Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
1	Leq	I S-9989	50.36	39.48	dB (A)
2	CPCB Limits In dB(A*) Leq (Industrial Area)	/ 	75	70	dB (A)
3	CPCB Limits In dB(A*) Leq (Residential Area)		55	45	dB (A)
4	CPCB Limits in dB(A*) Leq (Commercial Area)	•	65	55	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



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Page No. 1/1



Annexure -8

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 :

Name & Address of the Party

VEL/A/01

Ms. Ihabua Power Limited.

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

Report No.

: VEL/A/2209261001

Format No

7.8 F-03

Party Reference No

: 4300005298

Reporting Date

: 30/09/2022

26/09/2022

Pariod of Analysis Receipt Date

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

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 Ambient Temperature (°C)

Surrounding Activity Scope of Monitoring

Sampling & Analysis Protocol Sampling Duration **Parameter Required**

Project Site (Jhabua Power Plant) VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/RDS/01 & FPS/07

Calibrated

Clear Sky

15/09/2022 To 16/09/2022

10:00 AM to 10:00 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	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	64.55	hB/w ₃	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P-24) : 2019	35.34	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochhelser, RA:2006	18.23	µg/m³	60
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	7.61	µg/m³	80

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

End of Report



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Laboratory: Plot No. 82A, Sector - S, IMT 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.

Pradesh.

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

Party Reference No ; 4300005298 Reporting Date

Period of Analysis

Receipt Date

: 30/09/2022

7.8 F-03

· VEL/A/2209261001/N

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

Report No.

Format No

· 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

Ambient Temperature (°C)

Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol

Sampling Duration Perameter Required Project Site (Jhabua Power Plant)

VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/RDS/01 & FPS/07

Calibrated

Clear Sky

15/09/2022 To 16/09/2022

: 10:00 AM to 10:00 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	Mercury (Hg)	VEL/ENV/STP/129,issue No01,issue Date-01/11/2021:2021	*BLQ(LOQ-1.0)	ng/m³	

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

End of Report





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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

Ms Jhabua Power Limited

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

Report No.

VEL/A/2209261002

Format No Party Reference No 4300005298

7.8 F-03

Reporting Date

Pariod of Analysis

: 30/09/2022

Receipt Date

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

Sample Description

AMBIENT AIR

General Information

Sampling Location

Village-Barela

Sample Coffected By

VEL Representative (Mr. Rajesh)

Sampling Equipment used

RDS/FPS

Instrument Code

VEL/RDS/02 & FPS/04

Instrument Calibration Status

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

15/09/2022 To 16/09/2022 10:20 AM to 10:20 AM

Time of Monitoring

Min.23°C, Max.28°C

Ambient Temperature (°C) **Surrounding Activity**

Human & Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Sampling & Analysis Protocol

IS: 5182

Sampling Duration Parameter Required

24.0 Hours As per work order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	1S:5182 (P-23), Gravimetric Method, RA:2006	58.51	hā\w _a	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P-24) : 2019	32.43	hā/m ₃	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochheiser, RA:2006	20.33	hā/w _a	60
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	9.64	hg/w _s	80

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

End of Report





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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/A/02

84/a Ibabus Davins Limited

M/s Jhabua Power Limited...

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

Prodech

Report No.

: VEL/A/2209261002/N

Format No

7.8 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

: AMBIENT AIR

General Information

Sampling Location

Village-Barela

Sample Collected By

: VEL Representative (Mr. Rajesh)

Sampling Equipment used

: RDS/FPS

Instrument Code

VEL/RDS/02 & FPS/04

Instrument Calibration Status

Calibrated

Meteorological condition during monitoring

Calibrated

Date of Monitoring

Clear Sky

Time of Monitoring

15/09/2022 To 16/09/2022 10:20 AM to 10:20 AM

Ambient Temperature (°C)

Min.23°C, Max.28°C

Surrounding Activity

Human & Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Sampling & Analysis Protocol Sampling Duration IS: 5182

Parameter Required

: As per work order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Mercury (Hg)	VEL/ENV/STP/129,issue No01,issue Date-01/11/2021:2021	*BLQ(LOQ-1.0)	ng/m²	

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

checked By)

DY. TECHNICAL MANAGER

Approved By)

OF Singh

* Singh

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* Plantorised Signs

Page No. 1/1



^{***}End of Report***



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (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- Attaria, Tehsil- Ghansore, Distt-Seoni, Madhya

Pradesh.

Report No.

VEL/A/2209261003

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

Ambient Temperature (°C)

Surrounding Activity Scope of Monitoring

Sampling & Analysis Protocol

Sampling Duration Parameter Required Village-Gorakhpur

VEL Representative (Mr. Rajesh)

Combo Sampler

VEL/Combo/42

Calibrated

Clear Sky

15/09/2022 To 16/09/2022

: 10:45 AM to 10:45 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	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	55.48	hā\w _a	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P-24) : 2019	34.72	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochheiser, RA:2006	16.82	hð/m³	60
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	6.09	µg/m³	80

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

End of Report



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (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. Attaria, Tehsil- Ghansore, Distt-Seoni, Madhya

Pradesh.

Report No.

: VEL/A/2209261003/N

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

Village-Gorakhpur

Sample Collected By

VEL Representative (Mr. Rajesh)

Sampling Equipment used

Combo Sampler

Instrument Code

VEL/Combo/42

instrument Calibration Status

Callbrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

15/09/2022 To 16/09/2022

Time of Monitoring

: 10:45 AM to 10:45 AM

Ambient Temperature (°C)

Min.23°C, Max.28°C

Surrounding Activity

Human & Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Sampling & Analysis Protocol

IS: 5182

Sampling Duration

24.0 Hours

Parameter Required

As per work order

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

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

End of Report





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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 .lhabua Power Limited.

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

Pradesh.

Report No.

: VEL/A/2209261004

Format No

7.8 F-03

Party Reference No : 4300005298

Reporting Date

30/09/2022

Period of Analysis Receipt Date

: 26/10/2022-30/09/2022 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

Ambient Temperature (°C) Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol Sampling Duration **Parameter Required**

Village-Binaiki

VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/RDS/01 & FPS/07

Calibrated

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

10:30 AM to 10:30 AM

Min.23°C, Max.28°C

Human & Vehicular Activities

Regulatory Requirement

iS:5182 24.0 Hours

As per work order

\$.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	62.01	hg/m ₉	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P-24) : 2019	38.25	hā/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochhelser, RA:2006	21.73	hâ\w ₁	60
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	10.65	µg/m²	80

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

End of Report

cked By) SUBODH SHEKHAWAT DY. TECHNIGAL MANAGER

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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/A/04

M/s Jhabua Power Limited.

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

Report No.

VEL/A/2209261004/N

Format No

7.8 F-03

Party Reference No

: 4300005298

Reporting Date

: 30/09/2022

Period of Analysis

: 26/10/2022-30/09/2022

Receipt Date

- 26/09/2022

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Sample Collected By

VEL Representative (Mr. Rajesh)

Sampling Equipment used

RDS/FPS

Instrument Code

VEL/RDS/01 & FPS/07

Village-Binaiki

Instrument Calibration Status

Catibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

16/09/2022 To 17/09/2022

Time of Monitoring

10:30 AM to 10:30 AM

Ambient Temperature (°C)

Min.23°C, Max.28°C

Surrounding Activity

Human & Vehicular Activities

Scope of Monitoring

Sampling & Analysis Protocol

Regulatory Requirement IS: 5182

Sampling Duration

24.0 Hours

Parameter Required

As per work order

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

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



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^{***}End of Report***



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





Test Report

Sample Number :

VEL/A/05

Name & Address of the Party

: M/s Jhabua Power Limited

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

Pradesh.

Report No.

* VEL/A/2209261005

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 Ambient Temperature (°C)

Surrounding Activity

Scope of Monitoring Sampling & Analysis Protocol

Sampling Duration Parameter Required

Village-Panarihin

VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/RDS/02 & FPS/04

Calibrated

Clear Sky

16/09/2022 To 17/09/2022 11:00 AM to 11:00 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	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	66.33	h8\u00e4w _a	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P-24) : 2019	39.50	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-8), Jacob & Hochheiser, RA:2006	22.43	µg/m³	60
4	Suiphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	10.15	hð,w,	80

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

End of Report





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



Test Report

Sample Number: VEL/A/05

: M/s Jhabua Power Limited.

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

Pradesh:

Report No.

VEL/A/2209261005/N

Format No

7.8 F-03

Party Reference No : 4300005298

Reporting Date

: 30/09/2022

Period of Analysis Receipt Date

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

Sample Description

Name & Address of the Party

: 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

Village-Panarjhir

VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/RDS/02 & FPS/04

Calibrated

Clear Sky 16/09/2022 Te 17/09/2022

11:00 AM to 11:00 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 Mothod	Results	Units	Limit as per CPCB
1	Mercury (Hg)	VEL/ENV/STP/129,issue No01,issue Date-01/11/2021:2021	*BLQ(**LOQ-1.0)	ng/m³	60

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

End of Report

(thecked By)

SUBODH SHEKHAWAT DY, TECHNICAL MANAGER



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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 Jhabua Power Limited.

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

Pradesh.

Report No.

: VEL/A/2209261006

Format No

7.8 F-03

Party Reference No

: 4300005298

Reporting Date

: 30/09/2022

Period of Analysis
Receipt Date

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

Sample Description

: AMBIENT AIR

General Information

Sampling Location

: Coal Road

Sample Collected By

VEL Representative (Mr. Rajesh)

Sampling Equipment used

: RDS/FPS

Instrument Code

VEL/RDS/02 & FPS/04

Instrument Calibration Status

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

17/09/2022 To 18/09/2022

Time of Monitoring

11:40 AM to 11:40 AM

Ambient Temperature (°C)

Min.23°C, Max.28°C

Surrounding Activity

Human & Vehicular ActivitiesRegulatory Requirement

Scope of Monitoring Sampling & Analysis Protocol

IS: 5182

Sampling Duration

: 24.0 Hours

Parameter Required

: As per work order

S.No.	Parameters	Test Method	Resuits	Units	Limit as per CPCB
1	articulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	63.66	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P-24) : 2019	32.01	hā/w _a	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochheiser, RA:2008	17.53	hã\w ₃	60
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	6.59	µg/m³	80

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

End of Report





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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

: M/s Jhabua Power Limited.

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

Report No.

VEL/A/2209261006/N

Format No

7.8 F-03

Party Reference No 4300005298

Reporting Date

: 30/09/2022

Period of Analysis Receipt Date

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

Sample Description

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

: AMBIENT AIR

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

IS: 5182

24,0 Hours

Parameter Required As per work order

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

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

(Checked By)

SUBODH SHEKHAWAT DY. TECHNICAL MANAGER

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^{***}End of Report***



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





Test Report

Sample Number: VEL/A/07

Name & Address of the Party

: M/s Jhabua Power Limited.

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

Pradesh

Report No.

VEL/A/2209261007

Format No

7.8 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

: 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

Village-Guneri

VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/RDS/01 & FPS/07

Calibrated

Clear Sky

17/09/2022 To 18/09/2022

: 11:15 AM to 11:15 AM

: Min.23°C. Max.28°C

Human & Vehicular Activities Regulatory Requirement

IS: 5182

24.0 Hours

As per work order

S.No.	Perameters	Test Method	Results	Units	Limit as per CPCB
1	Perticulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2008	60.41	µg/m²	100
2	Perticulate Matter (as PM - 2.5)	i8:5182 (P-24) : 2019	33.26	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochheiser, RA:2006	18.23	µg/m³	60
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	9.13	µg/m³	80

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

End of Report

(chécked By)

SUBODH SHEKHAWAT DY. TECHNICAL MANAGER

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



Test Report

Sample Number: VEL/A/07

Name & Address of the Party

M/s Jhabua Power Limited.

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

Pradesh.

Report No.

VEL/A/2209261007/N

Format No

7.8 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

: AMBIENT AIR

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Calibration Status

Instrument Code

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Ambient Temporature (°C)

Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol Sampling Duration

Parameter Required

Village-Guneri

VEL Representative (Mr. Rajesh)

RDS/FPS

VEL/RDS/01 & FPS/07

Calibrated

Clear Sky

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

: 11:15 AM to 11:15 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	Mercury (Hg)	VEL/ENV/STP/129,issue No01,issue Date-01/11/2021:2021	*BLQ(**LQQ-1.0)	ng/m³	

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

End of Report

checked By)

SUBODH SHEKHAWAT DY, TECHNICAL MANAGER



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





Test Report

Sample Number: VEL/A/

Report No.

: VEL/A/2209261008

Name & Address of the Party

: M/s Jhabua Power Limited.

Format No

7.8 F-03

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

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

Village-Dola

Sample Collected By

VEL Representative (Mr. Rajesh)

Sampling Equipment used

Combo Sampler

Instrument Code

VEL/Combo/42

Instrument Calibration Status

Calibrated

Meteorological condition during monitoring

Calibrated

Date of Monitoring

Clear Sky

Time of Monitoring

17/09/2022 To 18/09/2022 11:50 AM to 11:50 AM

Ambient Temporature (°C)

Min.23°C, Max.28°C

Surrounding Activity

Human & Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Sampling & Analysis Protocol

IS: 5182

Sampling Duration

: 24.0 Hours

Parameter Required

: As per work order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	64.55	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P-24) : 2019	35.76	µg/m²	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-6), Jacob & Hochheiser, RA:2006	23.14	hā/w ₃	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	11.16	µg/m³	80

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

End of Report



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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

Ms Jhabua Power Limited.

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

Report No.

VEL/A/2209261008/N

Format No Party Reference No : 4300005298

7.8 F-03

Reporting Date

Period of Analysis

: 30/09/2022

Receipt Date

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

Ambient Temperature (°C)

Surrounding Activity

Scope of Monitoring Sampling & Analysis Protocol

Sampling Duration Parameter Required

Village-Dola

VEL Representative (Mr. Rajesh)

Combo Sampler

VEL/Combo/42

Calibrated

Clear Sky

17/09/2022 To 18/09/2022

: 11:50 AM to 11:50 AM

Min.23°C, Max.28°C

Human & Vohicular 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/129,issue No01,issue Date-01/11/2021:2021	*BLQ(**LOQ-1.0)	ng/m³	-

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

End of Report



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[®] Vardan EnviroLab

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/A/09

M/s Jhabua Power Limited.

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

Report No.

VEL/A/2209261009

Format No

7.8 F-03

Party Reference No

: 4300005298

Reporting Date Period of Analysis : 30/09/2022

Receipt Date

26/09/2022

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

Sample Description

: AMBIENT AIR

General Information

Sampling Location

Sample Collected By

Sampling Equipment used

Instrument Code

Meteorological condition during monitoring

Instrument Calibration Status

Date of Monitoring Time of Monitoring

Ambient Temperature (°C)

Surrounding Activity Scope of Monitoring

Sampling & Analysis Protocol

Sampling Duration Parameter Required

Village-Durjanpur

VEL Representative (Mr. Rajesh)

RDS/FPS

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

Human & Vehicular Activities

Regulatory Requirement

IS: 5182

24.0 Hours

As per work order

S.No.	Parameters	Test Method	Resulte	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P-23), Gravimetric Method, RA:2006	62.37	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P-24) : 2019	36.59	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P-8), Jacob & Hochheiser, RA:2006	21.73	µg/m³	60
4	Sulphur Dioxide (as SO2)	IS:5182 (P-2), Modified West and Gaeke, RA:2012	8.12	h@\m ₃	80

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

*End of Report***

checked By SUBODH SHEKHAWAT DY, TECHNICAL MANAGER prised

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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 Jhabua Power Limited.

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

Pradesh.

Report No.

: VEL/A/2209261009/N

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

Village-Durjanpur

Sample Collected By

VEL Representative (Mr. Rajesh)

Sampling Equipment used

Instrument Code

RDS/FPS VEL/RDS/FPS/02

Instrument Calibration Status

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring Time of Monitoring : 17/09/2022 To 18/09/2022

: 12:00 PM to 12:00 PM

Ambient Temperature (°C)

Sampling & Analysis Protocol

Min.23°C, Max.29°C

Surrounding Activity

: Human & Vehicular Activities

Scope of Monitoring

Regulatory Requirement IS: 5182

Sampling Duration

24.0 Hours

Parameter Required

As per work order

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

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

End of Report





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Annexure -9 Submission receipt of Environmental Statement



Ref. No.: JPL/ENV/22-23/Sept/38

September 06, 2022

To,

The Member Secretory,

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

Subject: Submission of Environmental Statement Report for the year 2021-22 for 1 x 660 MW Thermal Power Plant at Village-Bareia & Gorakhpur, Tehsil- Ghansore, Distt.- Seoni, Madhya Pradesh by M/s Jhabua Power Plant.

Ref.: MoEF Environmental Clearance No.: J-13012/63/2010-IA-II (T) dated 21st August 2014.

Dear 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, New Delhi and referenced above) for 1x660 MW Coal based Thermai Power Plant at Villages- Barela & Gorakpur, 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

Authorized Signatory

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

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

Jhabua Power Limited

(CIN: U40105WB1995PLC068616)

Village Barela, PO Attaria, Tehsil Ghansore, District Seoni-480997, Madhya Pradesh, India

Registered Office: Macmet House, 7th Floor, 10B, OC Ganguly Sarani, Kolkata-700 020, West Bengal, India Corporate Office: Unit No.-307, 3rd Floor, ABW Tower, (Near IFFCO Chowk) M.G. Road, Gurugram - Pin-122002 (Haryana) Tel.: +91-124-4392000/01 Fax: +91-124-4376496 E-mail: communications@avanthapower.com www.avanthapower.com



Environmental Statement Report, 2021-2022

POWER PLANT

ENVIRONMENTAL STATEMENT

OF

JHABUA POWER LTD.
UNIT - BARELA & GOREKHPUR
TEHSIL: GHANSORE
DISTRICT - SEONI (M.P.)



CAPACITY: 1 X 660 MW (PHASE -II)

FINANCIAL YEAR ENDING THE 31ST MARCH, 2022

ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending with 31st March, 2022 as per condition stipulated under clause no. xii of general Conditions in Environmental Clearance granted by Ministry of Environment & Forest vide letter no. F.No J - 13012/63/2010- IA.II (T) dated 21st August, 2014.

Presently project is under implementation.

PART- A

Environmental Statement Report for the Financial Year ending the 31st March, 2022.

i.	Name and address of the	Mr. Ashok Singh Yadav
	owner/occupier of the	Plant Head, Jhabua Power Ltd
	industry Operation or	Vill Barela – Gorakhpur, Near Overhead
	process.	Tank, Tehsil-Ghansore, DistSeoni
		Madhya Pradesh, 480997
ii.	Industry category Primary-	Red Category
	(STC Code) Secondary -	
	(STC Code)	
iii.	Production Capacity	1 X 660 MW
iv.	Year of establishment	Construction yet not started
٧.	Date of the last	14 th July 2021 vide letter dated 14 th July
	environmental statement	2021.
	submitted.	

660 MW Coal Based Thermal Power Plant	Environmental
At Villages Barela and Gorakhpur, Tehsil Ghansore, District Seoni (Madhya Pradesh)	Statement Report, 2021-2022

PART - B

(I) Water and raw Material Consumption:-

	Water consumption b	y Co	Consumption M ³ /day		
1	Process		Nil		
2	Cooling		Nil		
3	Domestic		Nil		
S. No			consumption per unit of products		
		During the previous	During the current		
		financial year 2020-21	financial year 2021-22		
1.	Electricity	Nil	Nil		

(II) Raw material consumption

Name of the Raw materials*	Name of the Products	Raw Material per unit of	-
		During the previous financial year 2020-21	During the current financial year 2021-22
Coal	Electricity	Nil	Nil

^{*}Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART - C Pollution discharged to environment/unit of output

(Parameter as specified in the consent issued)

Presently project activities yet not started. Observation in and around the project site:

Pollutants (a) Air		Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.		
(a)	Air		Enclosed as Annexure-1	NA		
(b)	Water		Enclosed as Annexure-2	NA		
			& 3			

660 MW Coal Based Thermal Power Plant	660	MW	Coal	Based	Thermal	Power	Plant
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At Villages Barela and Gorakhpur, Tehsil Ghansore, District Seoni (Madhya Pradesh)

Environmental Statement Report, 2021-2022

PART - D

HAZARDOUS WASTES

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

S.	Hazardous	Total Quantity (Kg)					
No.	Wastes	During the previous	During the current				
		financial year 2020-21	financial year 2021-22				
a.	From Process	Nil	Nil				
b.	From Pollution Control Facilities	Nil	Nil				

PART - E SOLID WASTES

S.	Solid Wastes	Total Quantity (Kg)					
No.		During the previous	During the current				
		financial year 2020-21	financial year 2021-22				
a.	From Process	Nil	Nil				
b.	From Pollution Control Facility	Nil	Nil				
C.	Quantity recycled or reutilized within the unit.	Nil	Nil				

PART - F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Ash is the main solid waste generated in the coal based thermal power plant. The quantity of fly ash and bottom ash generated will be 0.183 MTPA and 0.045 MTPA respectively.

➤ Fly ash will be utilized as per notification for fly ash by Ministry of Environment & Forest, New Delhi. MoU for Fly ash utilization in Cement Industry is signed with M/s Heidelberg Cement Ltd, Damoh, M.P. for 1.7 million tons/annum.

PART - G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost production.

The ambient air quality monitoring with respect to the 10 km radius study area around the project site is being carried out by M/s Vardan Envirolab, Gurgaon on monthly, quarterly and six monthly basis to access existing ambient air quality of the area. The various sources of air pollution in the region are dust rising from unpaved roads, domestic fuel burning, vehicular traffic, agricultural activities, other industries like stone crusher, etc.

The surface and ground water quality of the study area is also being done on six monthly basis by M/s Vardan Envirolab, Gurgaon.

In order to know the baseline of noise levels in and around the project site, noise levels were measured in the core zone and within the plant premises. Regular monitoring of ambient air quality, Noise Level, ground & surface water quality has been carried out to evaluate the quality of environment.

Result for the same has been attached as below;

- 1. Ambient air quality monitoring report enclosed as **Annexure 1.**
- 2. Ground water quality report enclosed as **annexure 2.**
- 3. Surface water quality report enclosed as **annexure 3.**
- 4. Noise level monitoring report enclosed as **annexure 4.**

Sampling, monitoring & analysis of above report is carried out by our environmental consultant M/s M/s Vardan Envirolab, Gurgaon.

At Villages Barela and Gorakhpur, Tehsil Ghansore, District Seoni (Madhya Pradesh)

PART - H

Additional measures/investment proposal for environmental protection including abatement of pollution.

- > Green belt development.
- ➤ World Environment day celebration on 5th June.

PART - I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

- > Water sprinkling being used on the roads of site and other dust vulnerable areas of the plant.
- > We are developing greenery in and around the plant and approximately 2500 plants per hectare will be planted. Native species would be preferred for the plantation having following characteristics:
 - Fast growing with thick canopy cover
 - Adequate height with longer duration of foliage
 - Perennial and evergreen
- ➤ Out of 181000 plantations, 135541 plants are covered under phase -I whereas rest plants are developed under Phase-II in and around the plant for green belt development.

Environmental Statement Report, 2021-2022

Annexure - 1

Ambient Air Quality Monitoring Results

February -2022

S. No.	Parameters			Village Durjanpur	Village Panarjhir	Village Gorakhpur	Village Guneri		
	Date of Monitoring	10/02/2022 to 11/02/2022	11/02/2022 to 12/02/2022	10/02/2022 to 11/02/2022	12/02/2022 to 13/02/2022	12/02/2022 to 13/02/2022	11/02/2022 to 12/02/2022	10/02/2022 to 11/02/2022	12/02/2022 to 13/02/2022
1.	Particulate Matter (PM _{2.5}), μg/m ³	32.07	28.82	26.64	26.34	28.76	26.22	25.79	28.57
2.	Particulate Matter (PM ₁₀), μg/m ³	67.41	67.45	63.25	67.45	68.41	65.45	62.45	69.11
3.	Nitrogen Dioxide (NO ₂), μg/m ³	18.38	13.89	15.94	16.23	13.55	17.2	14.41	14.2
4.	Sulphur Dioxide (SO ₂), μg/m ³	10.45	9.52	7.79	7.49	9.21	7.46	9.2	10.18
5.	Mercury (mg/m³)	BDL (*DL 1.0 ng/m ³)	BDL (*DL 1.0 ng/m³)	BDL (*DL 1.0 ng/m ³)					

Environmental Statement Report, 2021-2022

Annexure - 2

Ground Water Monitoring Results

February -2022

Date of Sampling: 12.02.2022

S. No.	Parameter	Project Site	Village- Barela	Vilage- Panarjhir	Village- Durjanpur	Village- Guneri	Village- Dola	Village- Binaiki	Village- Gorakhpur	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1	Colour (Hazen Unit)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	15
2	Odour	Agreeabl e	Agreeable	Agreeable	Agreeable	Agreeabl e	Agreeabl e	Agreeabl e	Agreeable	Agreeable	Agreeable
3	Turbidity (NTU)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	5
4	pH (at 25 °C)	7.34	7.11	7.16	7.48	7.34	7.33	7.38	7.46	6.5 to 8.5	No Relaxation
5	Total Dissolved Solids (mg/l)	318	239	272	337	327	318	296	311	500	2000
6	Total Hardness as CaCO₃ (mg/l)	178.48	108.64	120.28	182.36	162.96	182.36	162.96	166.84	200	600
7	Alkalinity as CaCO₃, (mg/I)	141.8	90.4	118.2	137.9	134	157.6	149.7	145.8	200	600
8	Sulphate as SO ₄ (mg/l)	30.95	23.61	37.71	33.8	35.61	37.71	28.28	52.87	200	400
9	Chloride as Cl (mg/l)	59.44	46.44	65.02	59.44	66.87	50.15	55.73	39.01	250	1000
10	Nitrate as NO3 mg/l	7.47	4.15	2.42	6.64	6.72	7.4	6.64	5.89	45	No Relaxation
11	Calcium as Ca mg/l	54.43	26.44	34.21	54.43	55.98	55.98	48.21	52.87	75	200
12	Magnesium as Mg (mg/l)	10.31	10.34	8.44	11.25	5.59	10.3	10.31	8.42	30	100
13	Iron as Fe (mg/l)	0.21	0.17	0.21	0.33	0.25	0.22	0.22	0.22	0.3	No Relaxation
14	Fluoride as F (mg/l)	0.58	0.52	0.50	0.64	0.78	0.65	0.62	0.64	1.0	1.5
15	Aluminum (as Al)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.03	0.2

660 MW Coal Based Thermal Power Plant

At Villages Barela and Gorakhpur, Tehsil Ghansore, District Seoni (Madhya Pradesh)

Environmental Statement Report, 2021-2022

| 16 | Boron (as B) (
mg/l) | BDL | 0.5 | 1.0 |
|----|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------------------------------|
| 17 | Cadmium as Cd
(mg/l) | BDL | 0.003 | No Relaxation |
| 18 | Chromium as Cr
(mg/l) | BDL | 0.05 | No Relaxation |
| 19 | Copper as Cu
(mg/l) | BDL | 0.05 | 1.5 |
| 20 | Lead as Pb (mg/l) | BDL | 0.01 | No Relaxation |
| 21 | Manganese as
Mn (mg/l) | BDL | 0.1 | 0.3 |
| 22 | Selenium as Se (
mg/l) | BDL | 0.01 | No Relaxation |
| 23 | Arsenic as
As (mg/I) | BDL | 0.01 | 0.05 |
| 24 | Zinc as Zn (mg/l | BDL | 5 | 15 |
| 25 | Mercury as Hg
(mg/l) | BDL | 0.001 | No
Relaxation |
| 26 | Residual free
Chlorine (mg/l) | BDL | 0.2 | 1.0 |
| 27 | Phenolic
Compound
(mg/l) | BDL | 0.001 | 0.002 |
| 28 | Anionic
Detergent
(mg/l) | BDL | 0.2 | 1.0 |
| 29 | Cyanides (mg/l) | BDL | 0.005 | No Relaxatior |
| 31 | E. Coli | Absent | | pe detectable
00 ml sample |
| 32 | T. Coliform
per/100 ml | Absent | | oe detectable
10 ml sample |

Environmental Statement Report, 2021-2022

Annexure - 3

Surface Water Sampling Results

February -2022

Date of sampling: 12.02.2022

Sr. No	Parameters	Pariyat River	Temor River near Pati village	100 Meter from confluence point	Standards	Vater Quality (as per IS and amendment Permissible
1	Colour (Hazen Unit)	*BDL(**DL	*BDL(**DL	_	Desirable 5	Permissible 15
_	(1.0)	1.0)			
2	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Turbidity (NTU)	5.0	2.0		1	5
4	pH (at 25 °C)	7.39	7.46	7.26	6.5-8.5	No relaxation
5	Total Dissolved Solids (mg/l)	253	208	395	500	2000
6	TSS mg/l	6.8	6.0	29.3	-	-
7	Total Hardness as CaCO₃ (mg/l)	182.36	116.4	-	200	600
8	Alkalinity as CaCO ₃ , (mg/l)	141.8	145.8	-	200	600
9	Sulphate as SO ₄ (mg/l)	6.67	7.52	7.81	200	400
10	Chloride as Cl (mg/l)	24.15	27.86	-	250	1000
11	Nitrate as NO3 mg/I	2.42	6.87	-	45	No relaxation
12	Calcium as Ca mg/l	32.66	26.44	-	75	200
13	BOD mg/l	5.23	4.32	13.5	-	-
14	Magnesium as Mg (mg/l)	24.47	8.45	-	30	100
15	Iron as Fe (mg/I)	0.12	0.11	-	1.0	No relaxation
16	Fluoride as F (mg/l)	0.58	0.51	-	1.0	1.5
17	COD mg/l	22.55	24.6	50.84	-	-
18	Boron (as B) (mg/l)	*BDL(**DL 0.2)	*BDL(**DL 0.2)	-	0.5	0.1
19	Cadmium as Cd (mg/I)	*BDL(**DL 0.002)	*BDL(**DL 0.002)	*BDL(**DL 0.002)	0.003	No relaxation
20	Chromium as Cr (mg/l)	*BDL(**DL 0.02)	*BDL(**DL 0.02)	*BDL(**DL 0.02)	0.05	No relaxation

660 MW Coal Based Thermal Power Plant

At Villages Barela and Gorakhpur, Tehsil Ghansore, District Seoni (Madhya Pradesh)

Environmental Statement Report, 2021-2022

21	Copper as Cu (mg/l)	*BDL(**DL	*BDL(**DL	-	0.05	1.5
		0.02)	0.02)			
22	Lead as Pb (mg/l)	*BDL(**DL	*BDL(**DL	*BDL(**DL	0.01	No relaxation
		0.005)	0.005)	0.005)		
23	Manganese as Mn	*BDL(**DL	*BDL(**DL	-	0.1	0.3
	(mg/l)	0.05)	0.05)			
24	Selenium as Se (*BDL(**DL	*BDL(**DL	-	0.01	No relaxation
	mg/l)	0.005)	0.005)			
25	Arsenic as	BDL	BDL	BDL	0.01	No relaxation
	As (mg/l)					
26	Zinc as Zn (mg/l	BDL	BDL		5	15
27	Mercury as Hg (mg/l)	BDL	BDL	BDL	0.001	No relaxation
28	Residual free	BDL	BDL	-	0.2	1.0
	Chlorine (mg/l)					
29	Phenolic Compound	BDL	BDL	-	-	-
	(mg/l)					
30	Anionic Detergent	BDL	BDL	-		
	(mg/l)					
32	Cyanides (mg/l)	BDL	BDL	-		
33	Oil & Grease			2.2		

Environmental Statement Report, 2021-2022

Annexure - 4

Ambient Noise Level Results

February -2022

S. No.	Name Of Sampling /		Noise level Monitoring Unit - dB (A)		
	Monitoring Location	Date of Sampling	Day Time Leq (6.00 am to 10.00 pm)	Night Time Leq (10.00 pm to 6.00 am)	
1	Project Site	10/02/2022 to 11/02/2022	58.17	46.22	
2	Village -Barela	11/02/2022 to 12/02/2022	52.9	40.68	
3	Village - Gorakhpur	10/02/2022 to 11/02/2022	54.76	39.6	
4	Village - Guneri	12/02/2022 to 13/02/2022	50.4	40.68	
5	Village - Dola	12/02/2022 to 13/02/2022	54.3	42.08	
6	Village – Binaiki	10/02/2022 to 11/02/2022	52.81	42.67	
7	Village - Panarjhir	11/02/2022 to 12/02/2022	51.9	39.68	

Submission Receipts of green belt plan.



Jhabua Power Ltd.

Village - Barela, Post : Attaria, Tahsil - Ghansore Dist. Seom, Pin - 480997 (Madhya Pradesh)

JPMJBPI368

Date :24-06-2011

To,

The GCF, Forest Department, Seoni (M.P.)

Sub: Proposal for plantation scheme around plant area.

Dear Sir.

M/s Jhabua Power Limited is setting up 1 x 800 MW coal based Thermal Power Plant at Village Barela-Gorakhpur, Tehsil – Ghansore, District – Seoni As a measure for conservation of environment and to provide a buffer between the sources of pollution and the surrounding areas the green belt is been proposed around the plant boundary. The proposed area for green belt development is around 103 Acre for Phase-I. Jhabua Power Limited kindly request you to guide us with a plantation schame with the species of saplings that can be grown effectively in green belt area.

Thanking You

A.N. Mishra Head Project

Jhabua Power Lld.

Enct. :- Plot Plan highlighting green belt area.



AVANTHA

Registered Office, 7º Floor, Macmet House, 10 B. O.C. Ganguly Sarran, Kolkatta, 7(3-020, W.S. Corporate Office, Thapar House, 124 Janpath, New Delhi, 110001 (India)

Tel: +91, 11 23368905 Fax + 91-11-23368779

Fly ash utilization plan

PROGRES	SSIVE FLY AS	SH UTILIZ. ED COAL	ATION PLA	AN	
ITEM DESCRIPTION	Unit	1st Year	2nd Year	3rd Year	4th Year
Tota Production of Ash	MeT/Annum	0.1824	0.1824	0.1824	0.1824
Fly Ash Bricks, Blocks, Tiles made with fly ash, lime & gypsum	MeT/Annum	0.022	0.024	0.025	0.025
Paving, Blocks, Paving Tiles, Checker Tiles. Cement wil be used as binder.		0.016	0.018	0.018	0.018
Cement Manufaturing	MeT/Annum	0.034	0.07	0.1	0.12
Clay based building materials suck as bricks & blocks.	MeT/Annum	0.011	0.012	0.012	0.012
Concret, mortarand plaster	MeT/Annum	0.01	0.01	0.01	0.01
Total Consumption	MeT/Annum	0.093	0.131	0.165	0.185
Total Utilization	%	50.99	71.82	90.46	101.43

Wildlife Conservation plan





e-mail: dfotuseoni@mp.gov.in dfonseoni@mpforest.org

कार्यालय, वनमंडलाधिकारी, उत्तर सिवनी वनमंडल

पत्र क्रमांक / मा.चि. / **246** 5

सिवनी दिनांक 18/9/0/3

प्रति.

मुख्य महाप्रबंधक, झाबुआ पावर प्रोजेक्ट, ग्राम-बरेला, पोस्ट-अत्तरिया, तहसील-घंसीर, जिला-सिवनी।

EIA study for praposed expansion from 600 MW to 1260 MW by addition of 1 X 660 MW coal based supercritical power plant at Barela & Gorakhpur, Tehsil:Ghansore, District:Seoni (M.P.).

संदर्भ :- आपका पत्र क्रमांक निल, दिनांक 17.09.2013.

उपरोक्त विषयांतर्गत संदर्भित पत्र के परिप्रेक्ष्य में स्थिनी जिले के उत्तर सिवनी वनमंडल के परिक्षेत्र शिकारा के ग्राम बरेला गोरखपुर में स्थापित किये जा रहे विद्युत संयंत्र के निर्माण के Environmental Impect Assessment (EIA) के संबंध में परियोजना क्षेत्र के 10 कि.मी. परिधि के अंतर्गत आने वाले फ्लोरा एवं फौना की सूची एवं मानचित्र को प्रमाणित करने का निवेदन किया गया है। तदानुसार मानचित्र एवं फौना की सूची के सूची में प्रमाणीकरण उपरांत प्रतिवेदन आपकी ओर अग्रिम कार्यवाही हेतु संलग्न प्रेषित है।

संलग्न :- उपरोक्तानुसार।

वनमङ्लाधकारा सत्तर सिवनी वनमंडल

पृ. क्रमांक/मा.चि./ 2465

प्रतिलिपि :- मुख्य वन संरक्षक, सिवनी वृत्त सिवनी की ओर उपरोक्त संदर्भ में सूचनार्थ

सम्प्रेषित।

वनमंडलाधिकारी

क्तर सिवनी वनगंडर

18 9 13

विम् हार्क



WILD LIFE CONSERVATION PLAN

1 X 660 MW COAL BASED SUPERCRITICAL THERMAL POWER PLANT

At

Village-Barela & Gorakhpur, Tehsil- Ghansore District- Seoni Madhya Pradesh

Project Proponent



M/s Jhabua Power Ltd

1.0 INTRODUCTION

M/s. Jhabua Power Ltd. (JPL), intends for the expansion of existing power plant capacity from 600 MW to 1260 MW by addition of 1 \times 660 MW coal based supercritical Thermal Power Plant in the existing premises at Barela and Gorakhpur villages in District Seoni in Madhya Pradesh.

1.1 Purpose of the Report

As per Environmental Impact Assessment EIA Notification dated 14th September, 2006, commissioning or operation of thermal power plants (≥500 MW) falls under category 'A' under project type 1(D) and requires Environmental Clearance (EC) to be obtained from MoEF before the commencement of ground activity.

Inline with the said Notification, MoEF has prescribed the TOR for the preparation of EIA/EMP report for the proposed coal based power project during the meeting held on October 18-19, 2010. Based on the TOR conditions stipulated by MoEF vide letter No. J-13012/63/2010-IA.II (T) dated 8th December 2010 & addendum in TOR vide letter no J-13012/63/2010-IA.II (T) dated 6th September 2011. A detailed flora and fauna studies have been carried out and prepared wildlife conservation plan for observed/reported aninal species.

1.2 Identification of Project and Project Proponent

1.2.1 About the Project

The proposed expansion project (1X660 MW Coal Based Power Plant) will be located near Barela and Gorakhpur villages, Seoni district, Madhya Pradesh. This project is inline with the central government's massive power capacity addition plan, which sets a target of adding 78,700 MW of power generation capacity in the country in the 11th plan (2007-2012) out of which more than 15000 MW are expected to be met by the private sector. This proposed project at Seoni district by **M/s Jhabua Power Ltd.** would assist in meeting the increased demand of power.

It is envisaged that the required coal for the power plant will be imported from Indoneshia. JPL has approached Ministry of Coal (MoC) for the long term coal linkage under prevailing policy of Government. Alternatively, JPL is also envisaging using imported coal from South Kalimantan/Banjarmasin, Indonesia, pending a formal coal linkage.

1.2.2 Project Proponent

M/s. Jhabua Power Ltd. (JPL), intends for the expansion of existing power plant capacity from 600 MW to 1260 MW by addition of 1 \times 660 MW coal based supercritical Thermal Power Plant in the existing premises at Barela and Gorakhpur villages in District Seoni in Madhya Pradesh.

1.3 Briof Description of Project

The proposed project would require 385.79-acre (≈156.13-ha) of land including the ash pond and green belt area. In the proposed power plant expansion one (1) boilers with super critical technology will be installed which will be fired on coal. The total imported coal requirement of the project at 85% Plant Load Factor (PLF) is 2.85 MTPA. The water requirement will be about 15.33 MCM, which will be drawn from Bargi Reservoir. One existing di -flue stack of 275-m with ESP of

more than 99.99% efficiency will be provided to control particulate matter to below 50-mg/Nm³.

1.3.1 Project Cost

The cost of the total project is about Rs. 3500 crores, which includes Rs 193 Crores for environmental protection measures. The project will be commissioned in 24 months.

1.3.2 Description of the Site

The land identified for the proposed project is about 385.79 acres. The land in the plant site is rocky land with a general elevation of about **536-550 m MSL**.

The mean maximum and mean minimum ambient tamperatures in the area as per IMD-Seoni for the period of 10 years are recorded to be 48.4°C (June) and 13.7°C (December) respectively. The relative humidity varies from 48% to 78%, the rain fall in the region is about 1346 mm. seismically, the site falls under Zone-II.

1.3.3 Environmental Setting of the Site

The environmental setting of the proposed plant sita is given in **Table-1**. The location map of the project and study area map of 10-km radius around the proposed site are given in **Figure-1** and **Figure-2** respectively. The co-ordinates of the plant site and ash pond site are marked on topo-sheet and enclosed as **Figure-2**. Aerial distance & direction of Bargl reservoir is shown in **Figure-3**

TABLE-1
ENVIRONMENTAL SETTING OF THE SITE

Sr.No.	Particulars		Details
1	Plant Location	Barela and Gorak Madhya Pradesh	hpur villages of Seoni district,
2	Plant site coordinates	CORDINATES	
		<u>La</u> titude	Longitude
		22°43'40" N to 22°44'20" N	79°54'35" E to 79°55'35" E
3	Ash pond coordinates	CORDINATES	
		Latitude	Longitude
		22º44'4.83" N	79º55'15.30" E
4	Climatic Conditions (IMD, Second	ni)	
a)	Temperature		
	Mean maximum	48.4 °C (June)	
	Mean minimum	13.7°C (Decemb	er <u>)</u>
b)	Mean Annual Rainfall	1346 mm	
c)	Relative Humidity	48 % - 78%	
d)	Predominant wind directions	North -East	
6	Plant site Elevation above MSL	536-550 m abov	e MSL

Wildlife Conservation Plan of Proposed expansion by addition of 1X660 MW Supercritical Coal Based Thermal Power Plant at Barela and Gorakhpur Villages, Seonl District, Madhya Pradesh.

Sr.No.	Particulars	Details
7	Plant site Toposheet	55 N/14
8	Present land use at the site	Mixed barren & Rocky land with shrubs
9	Nearest highway	NH-7 (18-km, NW)
10	Nearest railway station	Jabalpur (60-km, NNE)
11	Nearest Airstrip	Jabalpur (60-km, NNE)
12	Nearest major water bodies	- Patwara River (6.5-km, WSW)
	-	- Bhagori River (5.0-km, ESE)
		- Tamur River (6.5 km, W)
		- Paryat River (3.0 km, WSW)
		- Gadheri (4.5 km, WSW)
13	Water source for the project	Bargi Reservoir (10 Km, NE)
14	Nearest town/City	Ghansore (8.5-km, SSE)
15	Nearest village	Gorakhpur (0.6-km, NE)
16	Hills/valleys	
17	Archaeologically important places	Nil in 15-km radius
18	Protected areas as per	Nil in 15-km radius
10	Wildlife Protection Act,1972	(4) 11 13 (4) (400
	(Tiger reserve, Elephant	
	reserve, Biospheres, National	
	parks, Wildlife sanctuaries,	
	community reserves and	
	conservation reserves)	
19	Reserved / Protected Forests	11 forests exists around study area
		Sr. Name of the Forest Block, distance
		& direction from project site.
		1 Rote (RF), 3.0 Km, N to NE
		2 Barwakchhar (RF), 7.5 Km, N to NE
		3 Katori (RF), 9.0 km , NW
		4 Dhoma (RF), 3.0 km, NW
		5 Diwara (RF), 4.7 km, NW
		6 Ghansore (RF), 7.5 km, S
		7 Bhattekhari (RF), 1.5 km, WNW to SW
		8 Bichhua (RF), 3.5 km, ESE
		9 Jaitpur (RF), 8.0 km, SW
		10 Barela (RF), 0.0 km, SE
		11 Partapgarh (RF), 8.0 km, ESE
20	Seismicity	Seismic Zone-II as per IS 1893 (Part I): 2002
21	Defence Installations	None in 15-km radius area
22	Major industries in 15-km radius	No major industries are present in 15-km radius.
23	State Boundary	Uttar Pradesh & Maharastra State boundary

Note: All distances mentioned are aerial distances, Source: EIA studies,

Wildlife Conservation Plan of Proposed expansion by addition of 1X660 MW Supercritical Coal Based Thermal Power Plant at Barela and Gorakhpur Villages, Seoni District, Mndhya Pradesh.

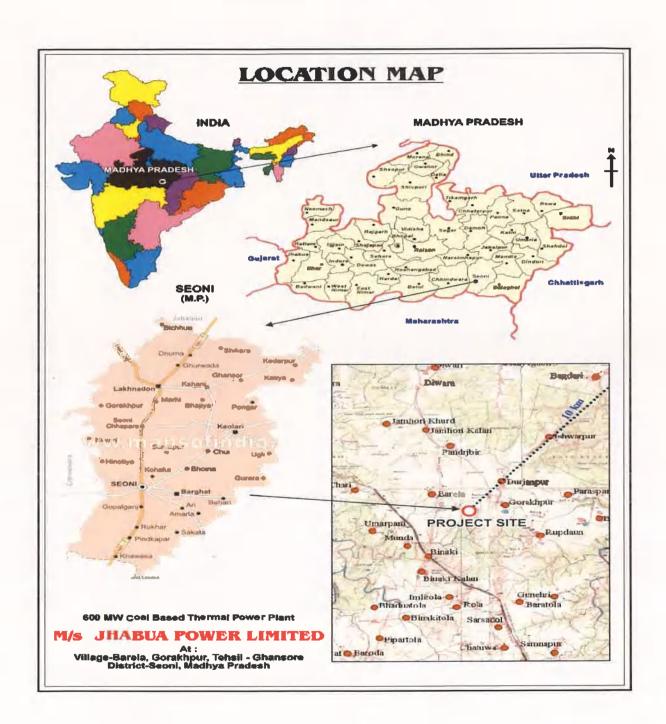
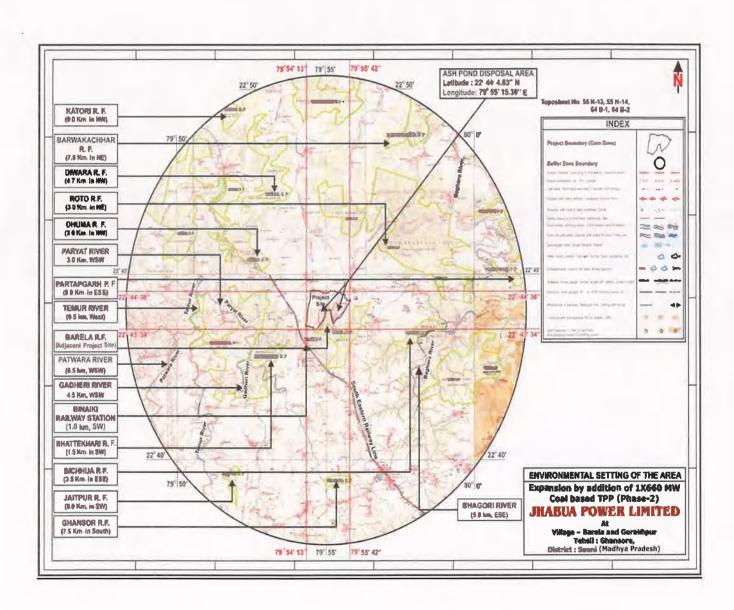


FIGURE-1 VICINITY MAP



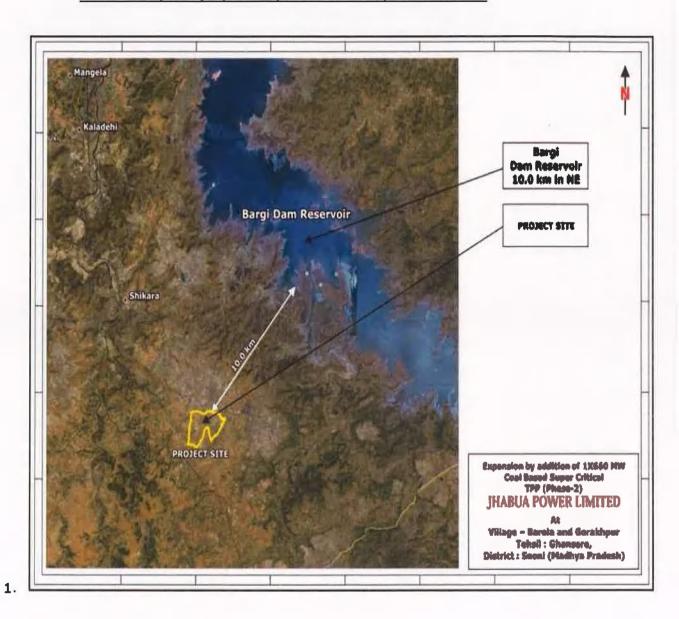
Wildlife Conservation Plan of Proposed expansion by addition of 1X660 MW Supercritical Coal Based Thermal Power Plant at Barela and Gorakhpur Villages, Seoni District, Madhya Pradesh.

FIGURE-2 STUDY AREA MAP (10 KM RADIUS)



Wildilfe Conservation Plan of Proposed expansion by addition of 1X660 MW Supercritical Coal Based Thermal Power Plant at Barela and Gorakhpur Villages, Seoni District, Madhya Pradesh.

FIGURE-3
AERIAL DISTANCE & DIRECTION OF BARGI RESERVOIR

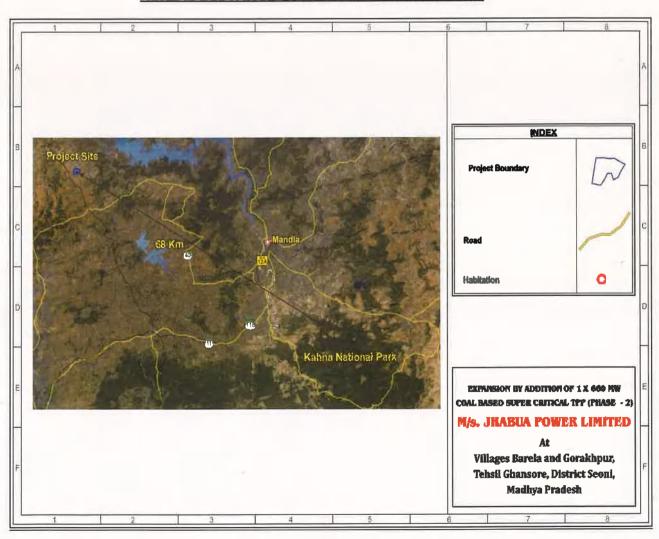


7

1.3.4 National Park and Wild life Sanctuaries

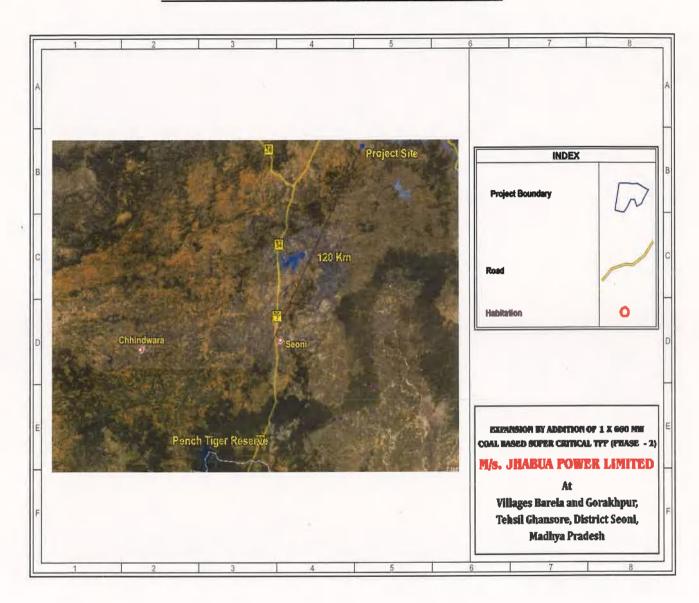
M/s Jhabua Power Ltd. has followed the guidelines of Ministry of Environment & Forest for site selection of coal based thermal power stations. As per MoEF guideline location of thermal power stations are avoided within 25 Km of the outer periphery of the National park and wildlife sanctuaries. The nearest national park is Kanha & Pench National park is 68 Km & 120 Km respectively which is far away from the M/s Jhabua Pewer Plant. Satellite imaginary showing the aerial distance of Kanha & Pench national park is given in **Figure 4 & 5**.

FIGURE-4
AERIAL DISTANCE OF KANHA NATIONAL PARK



Wildlife Conservation Plan of Proposed expansion by addition of 1X660 MW Supercritical Coal Based Thermal Power Plant at Barela and Gorakhpur Villages, Seoni District, Madhya Pradesh.

FIGURE-5 AERIAL DISTANCE OF PENCH NATIONAL PARK



2.0 WILDLIFE CONSERVATION PLAN

2.1 Forest Blocks in Study Area

The records of forest department and survey of India maps reveal that there are 11 forest blocks within 10-km radius of the proposed project site and details are presented in **Table-2.**

TABLE-2
DETAILS OF FOREST IN STUDY AREA

Sr. No.	Name of the Forest Block	Distance from Project Site (km)	Direction from Project Site
Forest	Blocks in 10-km radius	,	
1	Roto (RF)	3.0	N to SE
2	Barwakchhar (RF)	7.5	N to NE
3	Katori (RF)	9.0	NW
4	Dhoma (RF)	3.0	NW_
5	Diwara (RF)	4.7	NW
6	Ghansore (RF)	7.5	S
7	Bhattekhari (RF)	1.5	WNW to SW
8	Bichhua (RF)	3.5	ESE
9	Jaitpur (RF)	8.0	SW
10	Barela (RF)	0.0	SE
11	Partapgarh (RF)	8.0	ESE

Source: EIA report of JM Environet

Forests of Seoni district are mainly open scrub type and some dry deciduous can be broadly classified into two major groups e.g. Moist Tropical Forests and Dry Tropical Forests. There is no clear dividing line between these two forest groups. One group of forest gradually merges with the other. According to Champian & Seth's revised classification of Forest types of India, these forests have been further classified, as detailed below, into different types and sub-types depending upon physiognomy, moisture conditions, fioral composition and other variables.

Group - 1	Open scrub forest
Group 5	Tropical Dry deciduous forests.

The second degradation stage of dry deciduous forest is this type of forest. It is an open forest but typically, formation of original forest is lost and the trees stand apart singly or in small groups particularly in valleys in more or less heavy grass in which certain fire resistant plants persist. These fire resistant plants gradually and slowly try to establish themselves as trees. However, in most of the cases such plants do not get established as trees because of fire and other blotic factors.

All the above described climatic types are susceptible to be reduced to open savannah type. The intensive biotic interference in such forest areas causes conspicuous presence of grass which is otherwise a secondary feature in those forests (Climatic type). Some of the grass species encountered in these types of forests are *Oryza rufipogon*, *Eragrostis unioloides*, *Heteropogon contortus*, *Arundinella setos and Saccharum spontaneum*.

Though the preponderance of the grasses is the characteristic features in these forests, the tree species found to be occurring here are *Emblica officinalls*, *Bridella*

retusa, Acacia nilotica, Acacia sundra etc. These trees have very short boles and are mostly crooked and unsound. In fact, scattered bushes and such low trees among grasses are a very common composition observed in these savannah forests of this Division. Most of these degraded forest blocks are the result of long and continued over exploitation. The resultant effect has been reduction in natural regeneration of many tree species leading to complete wiping out of established seedlings of dominant species.

2.2 Objectives of Study

The present study was undertaken with the following objectives:

- To assess the nature and distribution of vegetation in and around the proposed project site
- To assess the distribution of animal life spectra;
- To understand the productivity of the water bodies;
- To ascertain migratory routes of fauna and possibility of breeding grounds.
- Identification of suitable area of minor wildlife
- Preparation of wildlife conservation plan

2.3 Methodology Adopted for the Survey

To achieve the above objectives a detailed study of the area was undertaken in 10-km radius area as proposed project site as centre. The different methods adopted were as follows:

- Compilation of secondary data with respect to the study area from published literature and Government agencies;
- Generation of primary data by undertaking systematic ecological studies in the area; and
- Gathering data for ethnobiology.

2.4 Floristic Composition- Primary Survey

Floristic Richness

During field survey, maximum 118 number of plant species were recorded from the study area. The list of plant species recorded in the study area is given in **Table -3**.

Life form spectrum is a reflection of plant community. A plant community is governed by several factors like climatic, edaphic, topographic and biotic. Even local variations in environment affect components of plant community.

In the study area, maximum numbers of species are therophytes, followed by phanerophytes. These classes are followed by hemicryptophytes and geophytes. Hydrophytes were found in very few numbers.

Presence of large number of phanerophytes (shrubs and trees) and therophytes (annuals or herbaceous vegetation) indicates semiarid to tropical vegetation structure.

Hemicryptophytes (predominantly grasses and sedges) were found to be significant in the area. These indicate fertile and wet soil in upper layer of soil profile. Recorded plant species from forest area are presented in **Table -3.**

TABLE -3
LIST OF FLORA INSTUDY AREA

\$R. NO	Common Name	Botanical Name
1	Khair	Acacia cathechu
2	Neem	Azadirachta indica
3	Pipal	Ficus religiosa
4	Sagon	Tectona grandis
5	Khair	Acacia cathechu
6	Australian Babul	Acacia auriculaeformis
7	Babul	Acacia niiotica
8	Haldu	Adina cordifoiia
9	Bel	Aegie marmelos
10	Kala Siras	Albizzia lebbek
11	Safed Siras	Albizzia procera, Benth
12	Dhavda	Anogeissus latifolia
13	Kadamba	Anthocephaius cadamba
14	Kaju	Anacardium occidentaie
15	Sitafal	Annona squamosa
16	Vanbhindi	Abeimoschus crinitus
17	Bhindi	Abeimoschus esculentus
18	Kanghi	Abutiion Indicum
19	Apamarg	Achyranthes aspera
20	Cholai	Amaranthus viridis
21	Adusa	Adhatoda vasica
22	Kachnar	Bauhinia variegata
23	Semal	Bombax ceiba
24	Taad	Borassus flabeilifer
25	Palas	Butea monosperma
26	Aamta	Bauhinia malabarica
27	Bottie brush	Callistemon citrinus
28	Amaltas	Cassia fistula
29	Sandan	Cassia siamea
30	Kumbhi	Careya arborea
31	Nariyal	Cocus nucifera
32	Dahivan	Cordia dichotoma
33	Lasoda	Cordia macleodii
34	Lasora	Cordia myxa
35	Chirota	Cassia tora
36	Mandupkarni	Centella asiatica
37	Safed Musli	Chloropodium arundinaceum

20	T. D. Sala	
38	Hurhur	Cleome gynandra
39	Jungli arabi	Colocasia indica
40	Kali Musli	Curculigo orchioides
41	Jangli Haldi	Curcuma aromatica
42	Aak	Caiotropis gigantea
43	Safed Aak	Caiotropis procera
44	Kadbur	Canthium parviflorum
45	Karonda	Carissa opaea
46	Raat ki Rani	Cestrum nocturnum
47	Shishu	Daibergia sisoo
48	Tendu	Diospyras meianoxyion
49	Kala shisham	Daibergia iatlfora
50	Gulmohar	Delonix regia
51	Chota gulmohar	Delonix eiata
52	Kala Tendu	Diospyros montana
53	Kala Dhatura	Detura metei
54	Dhatura	Detura stramonium
55	Jangli Mehandi	Dodonaea viscosa
56	Amla	Emblica offcinalis
57	Thuar	Euphorbia iiguiarla
58	Hirankhuri	Emilia sonchifolia
59	Shankhpushpi	Evolvuius aisinoides
60	Van tulsi	Eranthemum purpurascens
61	Pipal	Ficus religiosa
62	Kakai	Fiacourtia indica
63	Katha	Feronia ilmonia
64	Paraspipal	Ficus arnottlana
6566	Bargad	Ficus bengalensis
67	Anjir	Ficus carica
68	Gular	Ficus racemosa
69	Silver Oak	Grevelea robusta
70	Dhaman	Grewia tiliifolia
71	Gudhal	Hibicus rosa-sinensis
72	Shakarkand	Ipomoea batata
73	Jacaranda	Jacaranda mimosadfolis
74	Kunda	Jasminum muitiflorum
75	Ratanjot	Jatropha curcas
76	Ratanjot	Jatropha gossypifolia
77	Lendia	Lagerstroemia parviflora
78	Subabul	Leucaena ieucocephala
79	Kathbel	Limonia acidissima
80	Mahndi	Lawsonia inermis

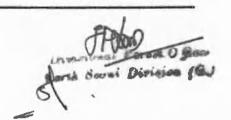
Wildife Conservation Plan of Proposed expansion by addition of 1X660 MW Supercritical Coal Based Thermal Power Plant at Barela and Gorakhpur Villages, Seonl District, Madhya Pradesh.





Wildlife Conservation Plan of Proposed expansion by addition of 1X660 MW Supercritical Coal Based Thermal Power Plant at Barela and Gorakhpur Villages, Seoni District, Madhya Pradesh.

81	Mahua	Madhuca indica
82	Aam	Magnifera indica
83	Kaari	Miliusa Tomentosa
84	Shahtut	Morus alba
85	Mithi Neem	Murraya koenigii
86	Chui-mui	Mimosa pudica
87	Kamal	Nelumbo nucliera
88	Kaner	Nerium Indicum
89	Van Tulsa	Ocimum basilicum
90	Tulsi	Ocimum sanctum
91	Van Singhada	Ottelia alismoides
92	Jangle Jalebi	Pithecellobium dulce
93	Codachinta	Peltophorum peterocarpum
94	Champa	Plumeria rubra
95	Ashok	Polyathia longifolia
96	Karanj	Pongamia pinnata
97	Gajar ghas	Parthenium hysterophorus
98	Bhui amla	Phyllanthus amarus
99	Sarpgandha	Rauvolfia sepentina
100	Chandan	Santalum album
101	Ritha	Sapindus emarginatus
102	Kusum	Scleichara oleosa
103	Kulu	Sterculia urens
104	Jamun	Syzygium cumini
105	Makoi	Solanum villosum
106	Gorakhmundi	Sphaeranthus indicus
107	Imli	Tamarindus indica
108	Arjun	Terminalia arjuna
109	Sagon	Tectona grandis
110	Deshi Badam	Terminalia catappa
111	Paras pipal	Thespesia popuinea
112	Singhada	Trapa natans
113	Gokharu	Tribulus terrestris
114	Vajradanti	Tephrosia purpurea
115	Jangli pyaz	Urginea indica
116	Ashwagandha	Withania somnifera
117	Bada Gorakhu	Xanthium strumarium
118	Ber	Ziziphus xylopyra



Analysis of Flora

- The Red Book Data of species does not include any of these species.
- As the above species are not endemic, rare or endangered, any ecological benign inevitable developmental activity may be undertaken precautionary measures of ecological sustainability e.g. controlled noise level, controlled emission and green belt development.
- The study area did not record the presence of any of the Critically Threatened species.

2.5 Endangered Plants

Floristic studies were conducted October 2010-January 2011 to know the presence of any endangered/threatened/endemic plant species in plant area and surrounding 10-km radius. The study area did not record the presence of any critically threatened species. The records of Botanical Survey of India and Forest department also did not indicate presence of any endangered and or vulnerable species in this area.

2.6 Fauna-Primary Survey

No national park or sanctuary is present in the study area. Common mammals, birds and reptiles are observed. Domestic animals were only noted during the study period. Wild animals are not found in the study area. List of fauna is presented in **Table 4.**

The observed and recorded wild animal species in 10-km radius and their conservation status as per Wildlife (Protection) Act, 1972 has been verified. List of fauna is presented in **Table 4.**

TABLE 4
LIST OF FAUNA IN STUDY AREA

S. No.	Common Name	Zoological Name
1.	Brahminy myna	Sturnus pagodarum
2.	Crow - pheasant	Cendropus sinensis
3.	Rat	R. rattus
4.	Jungle crow	Carvus macrorhynehas
5.	House crow	Carvus spienrhynehas
6.	Crow - pheasant	Cendropus sinensis
7.	Black drongo	Dicruus adsimilis
8.	White bellied drongo	Dicruus caeruleesceens

	T	
9.	Little erget	Egretta garzetta ·
10.	Red vanted bulbul	Pycnonotus cater
11.	Spotted dove	Streptopelia chinensis
12.	Brown wood dove	Streptopelia senegalensis
13.	Brahminy myna	Sturnus pagodarum
14.	Common Babblers	Turoldes caudatus
15.	Large Brown flying squirrel	Petaurista petaurista
16.	White tailed wood rat	Rattus blanfordl
17.	Frog	Rana Tigrina
18.	Common Lizard	Varanus species
19.	Hanuman / Langur	Presbytis entellus
20.	Siyar / Jackal	Canis aureus
21.	Newla /small Indian Mongoose	Herpestes auropunctatus
22.	Rat	R. rattus
23.	Monkey	Maaca mulata
24.	Bater / Common Quall	Coturnix asistica
25.	Kabutar / Blue Rock Pigeon	Columba livia
26.	Hariyal / Green Pigeon	Treron Phoenicoptera
27.	Bagula / Grey Heron	Ardea cinerea
28.	Chil / Brahminy Kite	Hallaster Indus
29.	Koyal	Eudynamys Scolopacea
30.	Koyai/ Kuku	Cuculus canorus
31.	Niikant / Indian Roller	Corocias bengalensis
32.	Jungle Maina	Acridotheres fuscus
33.	Jungle Kawua / Jungle Crow	Corvus macrorhyncos
34.	Desi Kawua / Common Crow	Corvus Splendense
35.	Totta / Roser Ringed Parakeet	Psittacula Krameri
36.	Girgit /Garden Lizard	Calotes versicolor
37.	Karant / Common Kralt	Bungarus Casruleus



Wildlife Conservation Plan of Proposed expansion by addition of 1X660 MW Supercritical Coal Based Thermal Power Plant at Barela and Gorakhpur Villages, Seoni District, Madhya Pradesh.

38	Kalang / Cobra	Naja naja naja
39	Dhaman / Rat Snake	Ptyas mucosus
40	Phursa / Russell's Viper	Viperas russelli
41	Panipa snap / Watar snake	Enhydris enhydris
42	Chelwa	Cheia atpar
43	Rohu	Labeo rohita
44	Tangra	Mystus bleekeri
45	Mangur	Calarias mangur
46	Common mongoose	Herpestes edwarrdii

Birds, Reptiles, Butterflies, Amphibians and Mammals were recorded which belong to Schedule-II animals and rest belongs to Schedule-III and IV and V of Wildlife (Protection) Act, 1972. The list of fauna recorded in the study area is given in **Table 4.**

Analysis of Fauna

- There is no National park, Wild life Sanctuary, Biosphere Reserve, Wild life Corridor, Tiger Reserve within 10 km radius area from the proposed project site.
- Rare, endemic & threatened species, etc are not found with 10 km radius area of the proposed project site.
- No Schedule -1 species were observed in the study area during the field survey.

2.7 Details of observed scheduled-II animal species

1. Langur (Presbytis entellus)

Langur (Presbytis entellus) is a lanky, long-tailed monkey of Haryana, with bushy eyebrows and a chin tuft. It has a small slender body with long tail and long hands. 'Langur' means 'having a long tail'. The langur is gray washed with buff or silvery shades, often with a white head, but with a black face. It has crests of hair on the head. It is found in India, Tibet, Nepal, and Sri Lanka. It lives in humid forests

Phono Sarriso Par

Size:

The male weighs 9 - 15 kg, the female weighs 4 - 8 kg but in the Himalayas it grows much larger. Most of them are of a slender build, about 2 feet long with a 2 1/2 foot tail.

Behavior:

Langurs are easy going. A high ranking female may sometimes slap a lower one. A dominant male stares at a subordinate, slaps the ground, grimaces, crouches, and suddenly stands again, grunting. He then tosses his head and chases the other one, hitting and even biting him. A subordinate will often come to the dominant one, present-turn, a sign of submission – then lie down while the dominant one grooms him. They spend 2-4 hours at midday resting and grooming each other. Langurs live in groups; the group consists of many females and one or two dominant males. Males chase each other to defend their territory and to establish mating rights. In Haryana, the Leopards are the main threats to Langurs. Using their speed and climbing ability they bring down the Langurs quite easily.

Reproduction:

The female breeds at 3 1/2 years of age. Gestation lasts 200 days. They usually only have one young. She nurses fer 10 - 12 months. Births are spaced every 2 years or so. The young is dark brown at birth and stays this color for 3 - 5 months. The infant clings to its parent unaided. Other females stay with the mother to touch and lick the infant and pass it around among them.

Description:

Langurs don't like water and cannot swim. They can jump up to 10 meters, and cross small rivers and streams. They sleep on trees and come down to ground for foraging and to drink water. They are excellent climbers and can jump from tree to tree when threatened. Also they travel on ground from place to place in small groups. Hindus in India worship these animals and they can be found following worshipers in temples who offer them food. Normally one young is born and the mother Langur carries the baby for about six months. Being mammals the young ones are fed with milk. The Langur population in India is quite high and hence they are not so threatened.

2. Monkey (Macacca Mullata):

Description

The Rhesus macaque is brown or grey in color and has a pink face, which is bereft of fur. Its tail is of medium length and averages between 20.7 and 22.9 cm (8.1 and 9.0 in). Adult males measure approximately 53 cm (21 in) on average and weigh about 7.7 kg (17 lb). Females are smaller, averaging 47 cm (19 in) in length and 5.3 kg (12 lb) in weight.

Distribution and Habitat

Rhesus macaques are native to northern India, Bangladesh, Pakistan, Nepal, Burma, Thailand, Afghanistan, Vietnam, southern China, and some neighboring areas. The Rhesus monkey has the widest geographic ranges of any nonhuman primate, occupying a great diversity of altitudes throughout Central, South, and Southeast Asia. Inhabiting arid, open areas, Rhesus macaques may be found in grasslands, woodlands and in mountainous regions up to 2,500 m (8,200 ft) in elevation. They are regular swimmers. Babies as young as a few days old can swim, and adults are known to swim over a half mile between islands, but are often found drowned in small groups where their drinking waters lie. Rhesus macaques are noted for their tendency to move from rural to urban areas, coming to rely on handouts or refuse from humans.[3] They have become a pest in some areas, perceived as a possible risk to public health and safety.

A diurnal animal, the Rhesus macaque is both arboreal and terrestrial, mostly herbivorous feeding on leaves and pine needles, roots, and the occasional insect or small animal. They have specialized pouch-like cheeks, allowing it to temporarily hoard its food.

Common Mongoose (Herpestes Edwardii)

The Indian Gray Mongoose or Common Grey Mongoose (Herpestes edwardsii) is a species of mongoose found in southern India and Sri Lanka. The gray mongoose is commonly found in open forests, scrub lands and cultivated fields, often close to human habitation. It lives in burrows, hedgerows and thickets, among groves of trees, taking shelter under rocks or bushes and even in drains. It is very bold and inquisitive but wary, seldom venturing far from cover. It climbs well. Usually found singly or in pairs. It preys on rodents, snakes, birds' eggs and hatchlings, lizards and variety of invertebrates. Along the Chambal river it occasionally feeds on gharial eggs. It breeds throughout the year.

Description

The Indian grey mongoose, or common grey mongoose is a medium sized tawny or yellowish grey with a lighter underside, darker feet (this separates it from the syntopic Small Asian Mongoose), and dark red tail tip. They have a reddish tint to their heads. Their tail length equals their body length. Body length: 14-17 inches (36-45cm) Tail length: 17 inches (45 cm), weight: 2-4 lb. (0.89-1.7kg). Males are significantly larger than the females

3.0 THREATS TO WILDLIFE AND THEIR HABITAT

Habitat Degradation

The herbivores need leaf, fruit and flowers etc of various plants to browse. The wild animals also need vegetation as a cover. Maximum forest open scrub areas exist in study area in degraded condition. If this process continues, degradation of the open scrub areas will proceed in a galloping speed. This need to be checked and suitable alternatives should be feund out and sites having some depth of soil deposit need to be afforested by species suitable to the site condition.

Soil erosion and Loss of Moisture

The area shall be prone to erosion due to absence of vegetation; steeper slope; activities like development of industrial areas and construction of house besides grazing of cattle and movement of vehicles. Moisture loss shall also be acute unless the ground is clothed and other measures are taken. Intensive soil conservation measures are to be adopted to restore the site condition. If these conditions are allowed to continue and further aggravate due to mining and other ancillary activities unchecked, the hill slopes shall further degrade to a point of no return. The wild animals shall suffer due to want of water, cover and food. The perennial and seasonal streams shall dry up not only to the detriment of wild animals but also the natural vegetation. The surrounding area within the Zone of Influence of 10Kms also shall also suffer similar fate if remedial measures are not taken.

Water Conservation

The requirement of water for the wildlife is limited. At present only a few species exist in the area like jackal, mongoose, snakes, rats, lizards etc. But gradually when adequate measures are ensured to grow vegetation and protection is provided more wildlife may prefer this area. But with mining water shall be scarce fer them. To meet their water requirement, few existing seasonal streams should be taken care and managed to the possible extent to conserve rain water till summer season is over.

Dependence on Forest

Local people shall continue to depend on the small depleted forest patches of the area for their fuel, fencing, construction, food, fodder and heating needs. Once good vegetation comes up may be due to protection or afforestation, the local tribal will collect fuel wood, small timber etc for their bonafled use. Therefore, while planning for gap planting or protection to the existing vegetation it should be ensured that they should not be illicitly felled. For this purpose farm and social forestry with suitable species mix need be taken up in villages. They should also serve as niches for wild animals.

Lack of Awareness

All the above measures need involvement of local villagers, VSS members, youth, women of the locality and employees of various government and non-government

department. But at present such awareness is lacking. Besides lot of people shall be inducted to the area who are not aware of the need for conservation of wildlife. Unless such awareness is promoted through different means any effort in this direction shall be futile.

Garbage & Liquid Wastes

Due to daily congregation of huge work force and others lots of solid as well as liquid wastes shall accumulate in and around the mine. They shall not only cover the ground, they may be ingested by wild animals causing their death. Regeneration shall also be affected. They may even choke the streams and water bodies. The liquid wastes shall contaminate the soil and if drunk by thirsty animals may cause diseases in them or even death. This may even trigger epidemics.

Mitigation Measures

According to the wildlife protection act 1972 no threatoned or endangered species of animals present in the study area. Hence the wild animals can find shelter there if they are made conducive to their stay with proper food, water cover and safety from fire and poaching. Hence the following steps are recommended for providing the same.

Protection and Impact of Forest Patches

There are good numbers of minor fauna found in forest area which are in degraded condition. They came for grazing from down the hillock slopes. Hence these patches need be fully protected and planted up with species that can establish there in order to provide food, cover and safety for them. Of course, rain fall appears to be quite sufficient. Domestic livestock also do visit the area, though in small number. Forest Guards can be engaged to provide protection to the area and prevent fire to the grass land during dry months. They can seek support from the mining work force if needed. As it is fairly flat ground, fire watchers or additional staff may not be needed. Mixed plantations of indigenous species, preferably with edible fruit, flower, leaves etc. should be grown. The following planting technique shall be adopted.

Raising Plantation

Plantation of hardy indigenous species, preferably those found in the neighbouring hill slopes can be planted up in 0.5 m³ pits, filled with borrowed valley soil and organic manure. Application of Rhizobium or Azotobactor shall also be used fer establishment of seedlings. They should be planted up with 2 years old healthy saplings immediately after the onset of monsoon at a spacing of 2.5mX2.5m. Bio-pesticides like neem oil cake etc can be applied, as the area is white ant prone. For all plants grown on the sloping ground, half moon trenches may be provided. Planting can also be taken up on 0.5m width x 0.5m deep x 5m length staggered trenches dug up along the contour at 5m intervals. This will help soil and moisture conservation and make water available to the plants. Clod mulching can be done immediately after the rains to prevent evaporation losses due to capillary action. The species recommended are Amla, Karj, Khamir, Guimohar, Sisoma, Bahada, Bara, Neem, Mohua, Kachanar, Arjun, Pentaforam,

Jack fruit, Mango, Gambhari etc. Seeds of edible grass or berries may be sown embedded in soil/cow dung pellets or slips may be planted for improving fodder availability. Causalities should be replaced in $1^{\rm st}$, $2^{\rm nd}$ and $3^{\rm rd}$ year with well grown seedlings in later part of July in $1^{\rm st}$ year and late June succeeding years. The plantation should be maintained for 5 years.

Soil and Moisture Conservation Measures

Soil erosion and moisture loss due to unchecked runoff during torrential rains may increase further, thereby depleting the hillock slopes and affecting agriculture in the surrounding areas. Hence they should be checked. Hence, all gullies should be check dammed with rubble and vegetative barriers. This will also provide drinking water for smaller wild animals like hares, snakes, lizards, ground birds.

Awareness Promotion

Awareness should be created among the mining work force through different programmes on wildlife and forest conservation so that they do not harm the wild animals and their habitat. This can be done through observation of different functions like Vana Mahotsava and wildlife week etc. Talk by prominent people, film shows and visit to PA's, Zoos and Museums etc.

Measures to be taken in the Immediate Surrounding of the Power Plant

The road transportation etc shall definitely have adverse impact of the surrounding area of 10 km radius (Zone of Influence). Of course, its impact beyond this zone can not be completely ruled out. But, there is bound to be much pronounced impact on the immediate vicinity, particularly the slopes of the plateau on which the lease shall be operational. Hence, it is propesed to separately indicate remedial measures for the hill slope and other surrounding areas including villages.

Forest Protection

The slopes fianking are quite steep, though quite rich in floral diversity. Of course the vegetation is sparsely distributed due to human pressure. There are pronounced gullies descending down the slopes. There are also perennial streams. Shifting/fixed cultivation is also practiced in pockets. Hence it is not only essential to protect whatever vegetation exists, but also to enrich the same. Of course the soil depth appoars to be quite good, as seen from the plantations raised on hill slopes of other neighbouring hills. There are only 3 V.S.S. now. More VSS may be formed to cover the entire hill slope and they should be strengthened and incentive may be provided to them. The blank areas may be planted up with indigenously occurring species. Similar planting technique may be adopted as indicated for the area within the lease. Weeding operation should always be done along the contour.

Fire Protection

With protection and additional plantation, lot of leaf litter shall be generated and grass shall dry up during summer months to make them combustible. This will not only affect the ground vegetation, this may create drier conditions and burn

the young ground dwelling animals and birds, their young ones and eggs. As most fire is man made and accidental, the local poople may be sensitized regarding adverse effect of fire. Fire lines may be cleared before summer months and six fire watchers may be engaged out of local youth in fire protection work during 5 months from February to May. Four watch posts at vantage points along the lip of the plateau may be erected for providing clear view of the entire hill slope. The watchers may be provided with simple fire fighting tools like spades, bill hooks, axes, buckets and brooms etc. The mining force may provide help to fight fire when required.

Soil and Moisture Conservation

Ail gullies should be plugged through check dams of rubble, masonry or vegetation at suitable intervals depending on the slope to reduce the velocity of flowing water and to recharge the ground water. This shall also arrest soil loss. In other slopes, staggered contour trenches of $0.5 \, \mathrm{m} \times 0.5 \, \mathrm{m} \times 5.0 \, \mathrm{m}$ may be dug at suitable intervals depending on slope. The dug out soil should be placed on down hill side partly covering the trench and planting can be taken up on the deposited soil.

Grazing

As stall feeding is not in practice for the livestock here, they roam freely destroying forests and compacting the soil. The cattle breed can be improved through Artificial Insemination and stall feeding encouraged. Besides, the V.S.S. should sensitize people not to allow grazing of cattle in the forest areas. Such grazing causes spread of communicable disease to the wild animais.

Protection and improvement of forest patches

In this district, forests are more or less confined to hill slopes. But most of them have been laid barren due to different human activities including 'Podu' or shifting cultivation. In order to provide habitat for wildlife it is essential not only to protect them, but also clothe them with vegetation of indigenous species. While V.S.S. Should be formed and strengthened all around the forest patches, R.F. or otherwise, they should be planted up following the techniques indicated for the area within the lease. Similar soll and moisture conservation measures besides fire prevention measures may be taken. For this 4 fire watchers out of local youth should be appointed for 5 months every year. These measures shall help in improving much needed wator requirement of the area. The 'Jhola' cuitivators are very much dependant on such water flowing in perennial streams.

Social Forestry

Due te efforts made for Social Forestry Project in the past many good village woodlots are still seen in the district. In order to improve wildlife status it will be necessary to raise village woodlots, institutional planting, planting on farm bunds, back yards, road avenues and village commons. Different ornamental, fuel, fodder, fruit, flower trees like Amla, Karj, Khamir, Gulmohar, Sisoma, Bahada, Bara, Neem, Mohua, Kachanar, Arjun, Pentaforum, Jack fruit, Mango, Kadam etc. Rain tree, Ficus, Chhatian, Peltoforum, Mahagony, Cashew nut, Karanja, Neem, Red sanders, Sandal wood, Paladhua(*Erithrina*), Teak, Akasmalli, Spathodia,

Jacaranda, Bara Koli (*Zyzyphus*), Aswattha, Simuli, Sunari and tropical pines etc can be taken up depending on its suitability and site conditions. Two year old healthy seedlings should be planted on 0.5 m3 pits with the involvement of individuals, Panchayat, V.S.S., concerned institutions, Forest Department or NGOs, who should also take care of their maintenance. This will also help bring down pressure on the forest patches occurring in the area, while providing 'niches' for different wild animals and birds.

Providing Alternate Avocation (Eco-Development)

Forests are usually depleted due to dependence of the people on them for their livelihood. If alternate avocations are provided to those not finding employment in the mines, particularly elderly, women and physically challenged persons they shall continue to depend on these depleted forests. They can be provided support for vegetable/mushroom growing, horticulture, diary, apiary, poultry, talloring, embroidery, indigenous food processing etc and their marketing. These products shall find market in the industrialized beit here. Similarly support for small technical jobs like repairs to household equipments, radio, T.V., bicycle, two-wheeler, electric wiring etc can be provided to those who have aptitude for the same. They can also be encouraged to set up small shops, tea-stalls etc. For all these they may be linked to SHGs (self-help group) and/or financial institutions.

Awareness Promotion

The wildlife, whose status may improve due to different measures suggested above, shall not be safe unless the local people, particularly the younger ones are made aware of the need for conservation. Hence efforts should be made in schools and colleges and V.S.S. to promote awareness. This can be done by celebrations of different conservation functions, talks, film shows, audio-visual alds, brochures, posters, competitions, photography and visit to PA's, Zoos, Museums and other wildlife areas etc.

4.0 Financial Assistance

The details of financial assistance to wild conservation plan is presented in **Table-5**. Wildlife Conservation will be implemented for 10 years period.

TABLE-5
BUDGET ESTIMATION FOR WILDLIFE CONSERVATION

Sr. No.	Particulars of Activities	Capital cost (Rs. In Lakhs)	Recurring cost (Rs.In Lakhs)
1	Protection of forest patches and regeneration of habitat.	2.0	1.0
2	Raising plantation in forest area.	3.0	1.5
3	Soil & moisture conservation measures(construction of Field bunds & loose boulder check dams, Ring basin structure)	1.5	1.5
4	Social/Agro forestry	0.75	0.75
5	Providing strengthening lively- hood initiative (Alternative income/employment generation schemes through Self Help Groups)	7.85	3.0
6	Wildlife protection awareness programme and community workshops (through exhibitions, film shows, awareness talks from various experts).	2.0	1.0
7	Rescue of animals with in study area.	2.0	2.0
Total		19,1	10,75

Annexure -13

Receipts of last compliance report submission

From:

Anoop srivastava

Sent:

28 May 2022 10:00

To:

'yogendra78@nic.in' 'sudheer.ch@gov.in'

Cc: Subject:

Submission of Six Monthly Compliance Report - 1x660 MW Coal Based Thermal

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

Pradesh

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) for 1x660 MW Coal based Thermal Power Piant 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.

Anoop Kr. Srivastava



May 27, 2022

To,

The Director,

Ministry of Environment, Forests & Cilmate Change 3rd Fioor, Vayu Biock, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Deihi-110003

Sub.: Submission of Six Monthly Compliance Report - 1x660 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil-Ghansore, Distt.-Seoni, Madhya Pradesh.

Rof.: MoEF letter no. J 13012/63/2010-IA.II (T) Dated 21th August'2014 & 6th August 2021

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 Delhi and referenced above) for 1x660 MW Coal based Thermai 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 (October' 2021 to March' 2022)

Jhabua Power Limited

(CIN: U40105WB1995PLC068616)

VIIIage Barela, PO Attaria, Tehsil Ghansore, District Seoni-480997, Madhya Pradesh, India

Registered Office: Macmet House, 7th Floor, 10B, OC Ganguly Sarani, Kolkata-700 020, West Bengal, India Corporate Office: Unit No.-307, 3rd Floor, ABW Tower, (Near IFFCO Chowk) M.G. Road, Gurugram - Pin-122002 (Haryana) Tel.: +91-124-4392000/01 Fax: +91-124-4376496 E-mail: communications@avanthapower.com www.avanthapower.com



From:

Anoop srivastava

Sent:

28 May 2022 10:08

To:

'apccfbhopal@gmail.com'

Subject:

Submission of Six Monthly Compliance Report - 1x660 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 Ciearance (letter issued by MoEF, New Deihi and referenced above) for 1x660 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.

Anoop Kr. Srivastava



May 27, 2022

To,

The Director.

Regional Office, Ministry of Environment & Forests

Kendriya Paryavaran Bhavan, Link Road No.3,

Bhopal-462016

Sub.: Submission of Six Monthly Compliance Report - 1x660 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil-Ghansore, Distt.-Seoni, Madhya Pradesh.

Ref.: MoEF letter no. J 13012/63/2010-IA.II (T) Dated 21th August'2014 & 6th August 2021

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 1x660 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 (October' 2021 to March' 2022)

Jhabua Power Limited

(CIN: U40105WB1995PLC088616)

Village Barela, PO Attaria, Tehsil Ghansore, District Seoni-480997, Madhya Pradesh, India

Registered Office: Macmet House, 7th Floor, 10B, OC Ganguly Sarani, Kolkata-700 020, West Bengal, India Corporate Office: Unit No.-307, 3rd Floor, ABW Tower, (Near IFFCO Chowk) M.G. Road, Gurugram - Pin-122002 (Haryana) Tel.: +91-124-4392000/01 Fax: +91-124-4376496 E-mail: communications@avanthapower.com www.avanthapower.com



From:

Anoop srivastava

Sent:

28 May 2022 10:02

To:

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

Subject:

Submission of Six Monthly Compliance Report - 1x660 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.-Seoni, Madhya

Pradesh.

Attachments:

CPCB 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) for 1x660 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.

Anoop Kr. Srivastava



May 27, 2022

To,

The Chairman,

Central Poliution Control Board Parivesh Bhawan, East Arjun Nagar, Delhi - 110 032

Sub.: Submission of Six Monthly Compliance Report - 1x660 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil-Ghansore, Distt.-Seoni, Madhya Pradesh.

Ref.: MoEF letter no. J 13012/63/2010-IA.II (T) Dated 21th August'2014 & 6th August 2021

Dear Sir,

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Kindly acknowledge.

Regards,

For Jhabua Power Ltd.

Authorized Signatory

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

Jhabua Power Limited

(CIN: U40105WB1995PLC068616)

Village Barela, PO Attaria, Tehsil Ghansore, District Seonl-480997, Madhya Pradesh, India

Registered Office: Macmet House, 7th Floor, 10B, OC Ganguly Sarani, Kolkata-700 020, West Bengal, India Corporate Office: Unit No.-307, 3rd Floor, ABW Tower, (Near IFFCO Chowk) M.G. Road, Gurugram - Pin-122002 (Haryana) Tel.: +91-124-4392000/01 Fax: +91-124-4378496 E-mail: communications@avanthapower.com www.avanthapower.com



From:

Anoop srivastava

Sent:

28 May 2022 10:07

To:

'cpcb.bhopal@gmail.com'

Subject:

Submission of Six Monthly Compliance Report - 1x660 MW Coal Based Thermal

Power Plant, Villages- Barela & Gorakpur, 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 1x660 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.

Anoop Kr. Srivastava



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 - 1x660 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil-Ghansore, Distt.-Seoni, Madhya Pradesh.

Ref.: MoEF letter no. J 13012/63/2010-IA.II (T) Dated 21th August'2014 & 6th August 2021

Dear Sir,

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Regards,

For Jhabua Power Ltd.

Authorized Signatory

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

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Village Barela, PO Attaria, Tehsii Ghansore, District Seoni-480997, Madhya Pradesh, India

Registered Office: Macmet House, 7th Floor, 10B, OC Ganguly Sarani, Kolkata-700 020, West Bengal, India Corporate Office: Unit No.-307, 3rd Floor, ABW Tower, (Near IFFCO Chowk) M.G. Road, Gurugram - Pin-122002 (Haryana) Tel.: +91-124-4392000/01 Fax: +91-124-4376496 E-mail: communications@avanthapower.com www.avanthpower.com



From:

Anoop srivastava

Sent:

28 May 2022 10:04

To:

ms-mppcb@mp.gov.in

Subject:

Submission of Six Monthly Compliance Report - 1x660 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil- Ghansore, Distt.-Seoni, Madhya

Pradesh.

Attachments:

MPPCB 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 1x660 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.

Anoop Kr. Srivastava



May 27, 2022

To,

The Member Secretary,

Madhya Pradesh Poilution Control Board, E-5, Arera Coiony, Paryawaran Parisar, Bhopal -16, Madhya Pradesh

Sub.: Submission of Six Monthly Compliance Report - 1x660 MW Coal Based Thermal Power Plant, Villages- Barela & Gorakpur, Tehsil-Ghansore, Distt.-Seoni, Madhya Pradesh.

Ref.: MoEF letter no. J 13012/63/2010-IA.II (T) Dated 21th August'2014 & 6th August 2021

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 1x660 MW Coal based Thermal Power Plant at Villages- Barela & Gorakpur, Tehsii- Ghansore, Distt.-Seonl, Madhya Pradesh of M/s Jhabua Power Ltd. Soft copy is uploaded on MoEF & CC web site-Parivesh.

Kindiy acknowledge.

Regards,

For Jhabua Power Ltd.

Authorized Signatory

