JAYPEÈ NIGRIE SUPER THERMAL POWER PLANT

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED ISO CERTIFIED: 9001: 2015, 14001: 2015 & 18001: 2007







QUALITY

ENVIRONMENT

HEALTH & SAFETY

JNSTPP/ EC/ MoEF/ 2020-21/21

Oct 26th, 2020

To

Additional Principal Chief Conservator of Forests (C),

Ministry of Env., Forest and Climate Change, Regional Office (WZ), E-5,

Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3,

Ravishankar Nagar, Bhopal - 462016

<u>Sub</u>: Submission of Half Yearly Environmental Clearance Compliance Report of Jaypee Nigrie Super Thermal Power Project (A Division of Jaiprakash Power Ventures Limited) of 2x660 MW Coal Based Super Critical Thermal Power Plant and 4.0 MTPA Cement Grinding Unit at Village Nigrie, Tehsil Sarai, Singrauli Dist. in Madhya Pradesh.

Sir,

With reference to the above mentioned subject we are submitting the compliance report to stipulated conditions of E.C. in hard and soft copy for the period (April 2020 – September 2020) of Jaypee Nigrie Super Thermal Power Project, EC reference nos.: J-13012/223/2007-IA-II (T) dated 25.02.2010 and its amendment dated 13.07.2012 for the JNSTPP (2x660 MW) & JNCGU (4.0 MTPA) for your kind records please.

Thanking You

Yours Faithfully

For Jaypee Nigrie Super Thermal Power Project

(A Division of Jaiprakash Power Ventures Ltd.)

Vinod Sharma

Sr. President (O & M)

Encl. - As above

CC to:

- The Regional Directorate (Central), Central Pollution Control Board, 3rd Floor, Sahkar Bhawan, North T.T Nagar, Bhopal- 462003
- The Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5 Area Colony, Bhopal – 462016, Madhya Pradesh
- Regional office MP Pollution control board, Bhakuar, Naugarh, Singrauli 486 887 (M.P.)

Site : Jaypee Nigrie Super Thermal Power Project, Village & P.O. Nigrie, Tehsil Sarai, Distt.Singrauli (M.P.),
Ph.: +91 (7801) 286021-36 Fax: +91 (7801) 286020 Email: jpthermal.sidhi@jalindia.co.in

Corp. Office: JA House, 63, Basant Lok, Vasant Vihar, New Delhi - 110 057 (India)

Regd Office

Ph.: +91 (11) 49828679,49828642 Fax: +91 (11) 26145389

Complex of Jaypee Nigrie Super Thermal Power Plant, Nigrie Tehsil Sarai, Distt. Singrauli 486669, (Madhya Pradesh)

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Half - Yearly Compliance Report Of

Environmental Clearance Period: April 2020 - September 2020

Of

M/s Jaiprakash Power Ventures Ltd.

2 x 660 MW Jaypee Nigrie Super Thermal Power Plant

2.0 MTPA (Installed) Jaypee Nigrie Cement Grinding Unit
At

(V) Nigrie, (T) Sarai, (D) Singrauli, Madhya Pradesh

Submitted To:

Regional Office, Western Zone
Ministry Of Environment, Forest & Climate Change
&
Zonal Office, Central Pollution Control Board, Bhopal

&

Madhya Pradesh Pollution Control Board, Bhopal

JAIPRAKASH POWER VENTURES LIMITED

1320 MW Coal based Thermal Power Project

21st Half Yearly Environmental Compliances statement of the stipulation of MoEF

EC Letter No.:- J-13012/223/2007-IA.II dated 25.02.2010 and Subsequent amendment in Environmental Clearance vide Letter No.J-13012/223/2007-IA.II (T) Dated 13.07.2012

Clause No.	Terms and Conditions Description as per EC letter	Compliance Status report
i.	Environmental Clearance is subject to submission of	Our R&R plan has been submitted to the Regional Office of the Ministry vide our letter No. JPVL/JNSTPP/MOEF/2010 dated 20th January 2011.
	complete details of R & R action plan (as applicable) with time schedule for implementation to the	It was subsequently modified incorporating suggestions of MoEF and was resubmitted vide letter no JPVL/JNSTPP/MOEF/2011 dated 29.06.2011.
	Regional Office of the Ministry and the Competent Authority in the state govt. The details shall include	
	name of head of family wise details, the area of homestead land and other land to	
	be acquired and the compensation paid/proposed to be paid etc. The time	
	schedule of implementation shall be given.	
ii.	Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in	Hydrogeological study of the Jaypee Nigrie Super Thermal Power Plant, Nigrie is being carried out every year by an independent agency M/s Hydro-geosurvey Consultants Pvt. Ltd, Jodhpur, Rajasthan a National Accreditation Board for Education and Training (NABET) Accredited & Quality Council of India (QCI) Accredited agency and reports are being submitted to concerned departments timely.
	the State Govt. In case adverse impact on ground water quantity & quality is observed, immediate mitigating steps to contain any	The last study report was submitted in August 2020. Water level check from existing peizometer wells being carried out monthly.

	adverse impact on ground water shall be undertaken.	Periodic review is being done. Quality of ground water is being monitored in and around the plant premises. Ground water level in nearby villages is also being monitored to know the seasonal fluctuations. There is no adverse impact found in the quality & quantity of Ground
iii.	environmental flow suggested by the competent authority of the State Govt. shall be maintained in the Channel/Rivers even in lean season. It shall be ensured that natural drainage in the region is not disturbed	Water. Being Complied, The Water Resource Department, Government of Madhya Pradesh has permitted JPVL to draw 42 MCM of water from Gopad River for Thermal Power Project. The Minimum recommended discharge is being released in the River during lean period (Summer Season from March to June). On the basis of Hydro geological studies, it shows that the River flow in the month of June, in last 8 years ranges from 1.798 cumecs (m3/sec) minimum to 2.97 cumecs (m3/sec) maximum, which is substantially more than minimum recommended flow of 0.50 cumecs (m3/sec).
	due to activities associated with operation of the plant.	The lean flow of Gopad river and its tributaries could not be measured in the last week of May, 2020, as the team which used to measure the lean flow could not visit the area due to lock down effective from 24 th March, 2020. However, the lean flow will be measured in May, 2021 when it will be feasible to mobilize the team for the field studies. Natural Drainage in the region is not being disturbed due to the activities associated with the operation of the plant. The Project is not obstructing the flow of River Gopad; The natural drainage of the region is not being affected.
iv.	A stack of 275 m height (Bi-flue) shall be provided with continuous online monitoring equipments for SOx, NOx and PM. Exit velocity of flue gases shall not be less than 25 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.	Bi-flue Stack of 275 m height is installed with Online monitoring equipments for PM, SO ₂ , NOx & Hg. The exit velocity of flue gases is more than 25.0 m/sec as stipulated. Mercury measurement is also being done through online analyzers.
v.	For cement Grinding Unit two stacks of 55 m each with exit velocity not less than 10 m /s shall be installed. Emission	Two stacks of 55m each with exit velocity not less than 10 m/s have been installed with Online monitoring equipments for PM in Cement Grinding Unit. 2 nos. of Bag Houses attached to Cement Mills (Roll Press & Ball Mill) with guaranteed emission level of <30 mg/Nm3 at full load. Each Bag House has 1188 & 780 bags respectively.

	(
	from the Grinding Unit shall not exceed	
	50 mg/Nm3.	
vi.	Fugitive emission in the Grinding Unit shall be controlled and data on fugitive emission shall be maintained in a log book and duly signed by the Head, Environment on a	To control fugitive emissions all raw material conveying belts are covered. Cyclones followed by bag filters are provided at all transfer points. Additionally, mobile water sprinklers are deployed in Grinding Unit area to suppress fugitive dust while movement of vehicles on haulage roads.
••	daily basis.	THE LANGE OF THE PARTY OF THE P
vii.	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to	Highly efficient BHEL make Electro Static Precipitators (ESPs) with efficiency of 99.95%, have been installed for each boiler to meet particulate emission less than 50 mg/Nm3.
	ensure that particulate emission does not exceed 50 mg/Nm3.	Online Continuous Emission Monitoring System is installed to Monitor Emissions for both boiler stacks and data is being transmitted to MPPCB & CPCB servers on real time basis and the results are within the Norms.
		For stack (Unit-I) average concentration of PM is 39.28 mg/Nm3, maximum concentration is 48.33 mg/Nm3 & the minimum concentration is 27.34 mg/Nm3 during April 2020 – September 2020.
		For stack (Unit-II) average concentration of PM is 39.83 mg/Nm3, maximum concentration is 48.61 mg/Nm3 & the minimum concentration is 15.27 mg/Nm3 during April 2020 – September 2020.
viii.	extraction system such as cyclones/bag filters	Adequate Air Pollution Control measures such as Dust Extraction System (Cyclone followed by Bag Filters) in coal crusher house and coal transfer points, Jet Sprinkler type Dust Suppression System in coal yard and Dry Fog type Dust Suppression System in belt conveyors have been provided.
	such as in coal handling and ash handling points, transfer areas and	A) 2 numbers of Dust Extraction Systems in Crusher House are Bag house type with Capacity 46,000 m³, 1 number of Bag house for each Bunker (Unit #1 & 2) with Capacity 41,000 m³
	other vulnerable dusty areas shall be provided.	B) Dust Suppression systems are installed in Track Hopper for all 4 Paddle Feeders, for rake unloading at track hopper & for Emergency reclaiming hopper.
		C) Jet Sprinkler type Dust Suppression System is installed in Coal Yard area for Bucket wheel stacker cum reclaimer.
		D) Dry Fog Dust Suppression system installed at all transfer points.
		Elaborate dust extraction & dust suppression system have been incorporated in the design of ash handling plant.

		➤ One number of Dust extraction systems in Intermediate Silo is Bag Filter type in each Unit, one number of Bag Filter for each Coarse Ash Surge Hopper (Unit #1 & 2) and two bag filters at Main Fly Ash Silo have been installed.
ix.	Utilization of 100 % Fly ash generated shall be made from 4th year of operation of the plant. Status of implementation shall	94.17 % of Fly Ash has been utilized during April 2020 to September 2020 as per MoEF & CC Notification No. 763 (E) dated September 14, 1999, notification No. 2804 (E) dated November 03, 2009 and S.O.254 (E) dated January 25, 2016 for fly ash utilization. Status of Implementation is being reported to Authorized Regulatory
	be reported to the regional Office of the Ministry from time to time.	Boards regularly.
X.	Fly Ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash	Compliance assured. We have established 2 Intermediate silos with capacity 450 metric tonnes each to collect dry fly ash & a fly ash bin of 400 metric tonnes capacity for utilization of ash in cement grinding unit and a storage silo of 20,000 metric tonnes capacity for utilization of dry ash.
	utilization shall be ensured from 4 th year onwards. Unutilized fly ash shall be disposed off in the ash	94.17 % of Fly Ash has been utilized during April 2020 to September 2020 as per MoEF & CC Notification No. 763 (E) dated September 14, 1999, notification No. 2804 (E) dated November 03, 2009 and S.O.254 (E) dated January 25, 2016 for fly ash utilization.
	pond in the form of slurry. Mercury and other heavy metals (As, Hg, Cr, Pb etc.)	Bottom ash is being disposed off in the ash pond in lean Slurry Disposal mode with ash to water ratio typical 1:2.8, with 100% recirculation of ash water.
	will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No	Regular monitoring of heavy metals is being carried out Half Yearly.
	ash shall be disposed off in low lying area.	
xi.	•	Design of Ash Pond has been done by M/s Development Consultants Pvt. Ltd. (DCPL) a renowned designing agency. M/s DCPL drawing has been submitted to MPPCB vide letter no. JPVL/COORD/POLL/2013-14 dated January 21, 2014. The drawing No. is K6A24–DWG-C-595 Rev. 4. The Ash Dyke has been constructed with upstream & downstream slopes
	any point of time. Adequate safety measures shall also be implemented to	(1V:2H). Ash Dyke has been constructed with HDPE lining on inner side and over that PCC (75mm) layer has been provided to protect it and eliminates any possibility of breach of embankment.
	protect the ash dyke from getting breached.	Ash Pond is built over an area of 21.2 ha and is consisting of two ponds & equipped with 100% Ash Water Recirculation facility to prevent any ash mixed water discharge to outside. The Ash Dyke is situated within intact

		boundary v	vall of	Power Pl	ant.				
xii.	For disposal of Bottom					ash is n	ot dispos	sed in an	y abandoned
	Ash (if proposed to be	mines.		•	•		•	•	
	undertaken) in								
	abandoned mines it								
	shall be ensured that								
	the bottom and sides								
	of the mined out areas								
	are adequately lined								
	with clay before								
	Bottom Ash is filled								
	up. The project								
	proponent shall								
	inform the state								
	Pollution Control								
	Board well in advance								
	before undertaking the								
•••	activity.	D : 1 ::		<i>C</i> 1 1.	2 1 0	1. 147			I
xiii.	, ,				-	_	-		Natural Draft
	System with natural	_			-				eing treated
	draft cooling towers shall be provided. The			-			_	~	Solid Contact on Unit (UF)
	Effluents shall be	,				,	•		wer Makeup,
	treated as per the				-			_	sed for Dust
	prescribed norms.	Suppression			-		reject w	atti is u	sea for Dust
	presented norms.	Suppression		ar rarrar		t i ii cus.			
		TREATED EFFLUENT ANALYSIS							
			For	he perio	d of Apr	il 2020 –	Septeml	oer 2020	
				CC	TDC	COD	POD	000	C1-11
		Month	pН	SS (mmm)	TDS	COD	BOD	O&G	Chlorides
				(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		Apr-20	7.16	NIL	9.50	2.6	NIL	NIL	1.99
		May-20	7.79	NIL	11.60	2.9	NIL	NIL	2.18
		Jun-20	7.76	NIL	14.00	4.0	NIL	NIL	3.80
		Jul-20	7.66	NIL	13.20	3.8	NIL	NIL	2.64
		Aug-20	7.89	NIL	13.50	5.3	NIL	NIL	3.93
		Sep-20	7.48	NIL	12.60	4.2	NIL	NIL	3.27
xiv.	The treated effluents			0			5		ated water is
	conforming to the	_		in the pla	ant. The	concept o	of "Zero	Discharg	e Condition"
	prescribed standards	implemente	ed.						
	only shall be								
	recirculated and	Separate dr	ainage	network	establisl	hed for st	torm wat	er.	
	reused within the					•	4.0		
	plant. There shall be	-		vnstream	water o	quality c	ot Gopac	l Kiver i	s also being
	no discharge outside	monitored.							
1	the plant boundary								
	except during								

		1					
	monsoon.						
	Arrangements shall be						
	made that effluents						
	and storm water do						
	not get mixed.						
xv.	A sewage treatment	U					d water reused
	plant shall be	suitably with	nin the p	olant premi	ses for green b	elt developm	ent.
	provided and the						
	treated sewage shall	TREATED			YSIS (1000 KI		-
	be used for raising		For the	e period of	April 2020 – S	September 202	20
	greenbelt/plantation.		1	66	COD	non-	
		Month	pН	SS	COD	BOD	O & G
			_	(ppm)	(ppm)	(ppm)	(ppm)
		Apr-20	7.56	12.4	90.8	9.2	2.10
		May-20	7.62	11.1	93.4	8.8	1.96
		Jun-20	7.68	12.0	91.6	9.0	2.00
		Jul-20	7.19	12.0	90.2	11.3	2.22
		Aug-20	7.22	18.0	106.1	15.5	2.02
		Sep-20	7.02	13.0	93.7	10.3	2.15
		TREAT			ALYSIS (100 F		
			For the	e period of	April 2020 – S	September 202	20
						T	
					~ ~ ~		
		Month	pН	SS	COD	BOD	O & G
		Month	pН	(ppm)	(ppm)	(ppm)	(ppm)
		Apr-20	7.25	(ppm) 10.1	(ppm) 72.6	(ppm) 8.5	(ppm) 1.52
		Apr-20 May-20	7.25 7.44	(ppm) 10.1 9.8	(ppm) 72.6 70.6	(ppm) 8.5 8.0	(ppm) 1.52 1.34
		Apr-20 May-20 Jun-20	7.25 7.44 7.54	(ppm) 10.1 9.8 10.0	(ppm) 72.6 70.6 72.8	(ppm) 8.5 8.0 6.0	(ppm) 1.52 1.34 1.00
		Apr-20 May-20 Jun-20 Jul-20	7.25 7.44 7.54 7.31	(ppm) 10.1 9.8 10.0 10.0	(ppm) 72.6 70.6 72.8 69.4	(ppm) 8.5 8.0 6.0 9.2	(ppm) 1.52 1.34 1.00 1.32
		Apr-20 May-20 Jun-20	7.25 7.44 7.54	(ppm) 10.1 9.8 10.0	(ppm) 72.6 70.6 72.8	(ppm) 8.5 8.0 6.0 9.2 11.5	(ppm) 1.52 1.34 1.00
		Apr-20 May-20 Jun-20 Jul-20	7.25 7.44 7.54 7.31	(ppm) 10.1 9.8 10.0 10.0	(ppm) 72.6 70.6 72.8 69.4	(ppm) 8.5 8.0 6.0 9.2	(ppm) 1.52 1.34 1.00 1.32
xvi.	Rainwater harvesting	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water	7.25 7.44 7.54 7.31 7.53 7.24	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schem	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared &	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain
xvi.	should be adopted.	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the te	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schemechnology	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regiona	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & Il Director, C	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain
xvi.	should be adopted. Central Groundwater	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of Water Board	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the te	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional itted the same	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & Il Director, C	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain
xvi.	should be adopted. Central Groundwater Authority/Board shall	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the te	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional itted the same	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & Il Director, C	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain
xvi.	should be adopted. Central Groundwater Authority/Board shall be consulted for	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of Water Board Compliance	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the te	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology and submof June, 201	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional itted the same 3.	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & de to MoEF alco	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC
xvi.	should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval or Water Board Compliance Rain water h	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the te	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology all and submof June, 201	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional nitted the same 3.	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & all Director, Ce to MoEF alco	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC
xvi.	should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of Water Board Compliance Rain water h	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the tell, Bhopa Report charvesting the growth g	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology all and submof June, 201	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional nitted the same 3.	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & all Director, Ce to MoEF alco	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC
xvi.	should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval or Water Board Compliance Rain water h	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the tell, Bhopa Report charvesting the growth g	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology all and submof June, 201	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional nitted the same 3.	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & all Director, Ce to MoEF alco	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC
xvi.	should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of Water Board Compliance Rain water h	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the tell, Bhopa Report charvesting the growth g	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology all and submof June, 201	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional nitted the same 3.	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & all Director, Ce to MoEF alco	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC
xvi.	should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of Water Board Compliance Rain water h	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the tell, Bhopa Report charvesting the growth g	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology all and submof June, 201	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional nitted the same 3.	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & all Director, Ce to MoEF alco	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC
xvi.	should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of Water Board Compliance Rain water h	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the tell, Bhopa Report charvesting the growth g	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology all and submof June, 201	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional nitted the same 3.	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & all Director, Ce to MoEF alco	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC
xvi.	should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of Water Board Compliance Rain water h	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the tell, Bhopa Report charvesting the growth g	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology all and submof June, 201	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional nitted the same 3.	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & all Director, Ce to MoEF alco	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC
	should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of Water Board Compliance Rain water It to augment monsoon sea	7.25 7.44 7.54 7.31 7.53 7.24 Harves f the tell, Bhopa Report charvesting the ground soon.	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schenechnology and submof June, 201 ng pit with bound water	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional titled the same 3. in the townshir table and to	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & l Director, Ce to MoEF alco	1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC
xvi.	should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished. Adequate safety	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of Water Board Compliance Rain water It to augment monsoon sea	7.25 7.44 7.54 7.31 7.53 7.24 Harvest the tellocation the ground soon.	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schene echnology all and submof June, 201 and pit with bound water	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional and the same 3. in the townshir table and to be a same are in part of the same are in pa	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & d Director, Ce to MoEF alco	(ppm) 1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC
	should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Rain Water Approval of Water Board Compliance Rain water It to augment monsoon sea	7.25 7.44 7.54 7.31 7.53 7.24 Harvest the tell, Bhopa Report the grown asson.	(ppm) 10.1 9.8 10.0 10.0 13.0 9.0 sting schene schnology all and submof June, 201 and pit with bound water arequisite trairements in	(ppm) 72.6 70.6 72.8 69.4 86.5 62.4 ne has been from Regional and the same 3. in the townshir table and to be a same are in part of the same are in pa	(ppm) 8.5 8.0 6.0 9.2 11.5 7.7 prepared & l Director, Ce to MoEF alcomplete at site original policies or colleges.	1.52 1.34 1.00 1.32 1.50 1.71 sent to obtain Central Ground ong with the EC

	area to	Mock drills are being conducted periodically.
	check/minimize spontaneous fires in	Fire hydrant and water jet type sprinklers established in the coal yard.
	coal yard, especially	The regulation which you by propriations could notice an une country of the
	during summer	Reviewed On Site Emergency Plan of Jaypee Nigrie Super Thermal Power
	season. Copy of these	Plant was Submitted to The Director, Industrial Health & Safety, Indore
	measures with full	vide OSEP No.RE01121811507294 date 21/01/2019. Approval was granted
	details along with	on 28.01.2019.
	location plant lay out	
	shall be submitted to	
	the Ministry as well as	
	to the Regional Office of the Ministry.	
xviii.	Storage facilities for	The design of the plant meets the requirements. Storage facilities for
AVIII.	auxiliary liquid fuel	auxiliary liquid fuel are made in the plant area and license obtained from
	such as LDO and	Department of Explosives, Nagpur/ Bhopal.
	HFO/LSHS shall be	
	made in the plant area	Validity of license No. P/HQ/MP/15/2876(P311713) from Deputy Chief
	in consultation with	Controller of Explosives, Bhopal for Petroleum Class C (LDO & HFO) in
	the Department of	bulk installation is up to 31st December 2022.
	Explosives, Nagpur.	
	Sulphur content in the	Onsite Emergency Plan (Disaster Management Plan) has been approved
	liquid fuel will not	by Director, Industrial Health and Safety, M.P., vide. OSEP NO:
	exceed 0.5%. Disaster Management Plan	RE01121811507294, Indore Dated: 28/01/2019. This plan covers all type of
	shall be prepared to	emergency including storage of oil.
	meet any eventuality	
	in case of an accident	
	taking place due to	
	storage of oil.	
xix.	Regular monitoring of	Eight Piezometer bore wells were laid around the Ash ponds. Regular (Six
	ground water level	Monthly) monitoring of heavy metals is being carried out.
	shall be carried out by	
	establishing a network	Third Party Test Report is annexed as Annexure – I.
	of existing wells and constructing new	
	piezometers.	
	prezenteters.	
	Monitoring around the	
	ash pond area shall be	
	carried out	
	particularly for heavy	
	metals (Hg, Cr, As, Pb)	
	and records	
	maintained and	
	submitted to the	
	Regional Office of this	
	Ministry. The data so obtained should be	
	obtained Should be	

	compared with the baseline data so as to ensure that the ground water quality is not adversely affected due	
xx.	Green belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 70%.	 Complied with and Green belt development/ plantation is being carried out inside the plant premises. An effective green belt is being developed with local species as per CPCB guidelines, Efforts are further made to develop more green belt in the plant. A nursery is established at site. Required Green belt & Green cover being developed continuously. Greenbelt is being developed in a phased manner along the periphery of the Power Plant and Grinding Unit. More than 33% of area in and around Power plant including Cement plant i.e. around 182 hectares of green belt has been developed as per guidelines given by CPCB. Total number of Plants Planted up to 30.09.2020 is approximately 4.525 lakhs.
		 During this period (April, 2020 – September, 2020) total of 0.32 lakhs of Trees have been planted in 12.8 Ha.
xxi.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First Aid and sanitation facility provided for the drivers and contract workers during construction phase. Site sanitation and housekeeping is maintained regularly. 10 beds Hospital at site is equipped with all required facilities for First Aid.
xxii.	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like ear plugs/ear muffs etc shall be provided. Workers engaged in noisy area such as turbine area, air	Complied, the steam turbines (ST) are enclosed in the building and acoustic enclosures are provided to minimize noise from these machines. All The equipments are provided with acoustic hoods to control noise. The ambient noise levels are well below 75 dBA (day time) and 70 dBA (night time) as prescribed under EPA rule, 1986. Ambient noise levels in and around the Plant area are monitored monthly. Noise levels are well under the limit. All safety items like Ear muffs, Ear Plugs are provided to all the workers & employees and made mandatory. Periodic audiometric check up is being carried out and records are being maintained. Further the Company has obtained IMS - Integrated Management System Certificate covering ISO 9001:2015 (QMS – Quality Management System), ISO 14001:2015 (EMS - Environmental Management Systems) & ISO

compressors etc shall
be periodically
examined to maintain
audiometric record
and for treatment of
any hearing loss
including shifting to
non noisy /less noisy
areas.

18001:2007 (OHSAS - Occupational Health and Safety Assessment Series).

xxiii.

Regular monitoring of Ground level concentration of SO₂, NOx, RSPM 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 frequency and of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.

- ➤ Baseline monitoring was conducted during EIA. Weekly monitoring (Manual/ Offline) during operational phase is being carried out regularly.
- ➤ In case of any exceedance, necessary control measures are ensured.
- Four Continuous Ambient Air Quality Monitoring Stations (Online/Real Time) are provided along the boundary considering the wind rose/wind directions and the data of the CAAQMS, CEMS and CEQMS is connected with MPPCB server at Bhopal & CPCB server at Delhi.
- ➤ Compliance on EC conditions including results of monitoring data is being uploaded in company web site along with EC Compliance Report and displayed at the main gate of the company.
- Quarterly Environmental Monitoring Reports are also made available on the website of the company.
- ➤ Regular monitoring of PM10, PM2.5, SO₂ & NO₂ and CO is being carried out as per frequency & monitoring results are well within the norm.
- Offline Monitoring results are being submitted to MPPCB quarterly.
 AAQM Results

For the period of April 2020 – September 2020

LOCATION: Near STP - Colony area						
SO ₂ (μg/m3)	NO ₂ (μg/m3)	PM10 (μg/m3)	PM2.5 (μg/m3)	CO (mg/m3)		
4.8	10.2	30.1	13.4	0.313		
7.5	11.7	54.0	23.9	0.486		
5.9	10.8	42.1	18.5	0.421		
L	OCATION : Ne	ar H2 Gas cylind	er shed			
SO ₂ (μg/m3)	NO ₂ (μg/m3)	PM10 (μg/m3)	PM2.5 (μg/m3)	CO (mg/m3)		
6.8	12.4	39.9	16.6	0.489		
10.1	16.5	66.1	30.3	0.582		
8.3	13.8	51.2	22.8	0.547		
	SO ₂ (μg/m3) 4.8 7.5 5.9 L SO ₂ (μg/m3) 6.8 10.1	SO2 (μg/m3) NO2 (μg/m3) 4.8 10.2 7.5 11.7 5.9 10.8 LOCATION : Ne SO2 (μg/m3) (μg/m3) 6.8 12.4 10.1 16.5	SO2 (μg/m3) NO2 (μg/m3) PM10 (μg/m3) 4.8 10.2 30.1 7.5 11.7 54.0 5.9 10.8 42.1 LOCATION : Near H2 Gas cylind SO2 (μg/m3) (μg/m3) (μg/m3) (μg/m3) (μg/m3) 6.8 12.4 39.9 10.1 16.5 66.1	SO2 (μg/m3) NO2 (μg/m3) PM10 (μg/m3) PM2.5 (μg/m3) 4.8 10.2 30.1 13.4 7.5 11.7 54.0 23.9 5.9 10.8 42.1 18.5 LOCATION : Near H2 Gas cylinder shed SO2 (μg/m3) (μg/m3) (μg/m3) (μg/m3) (μg/m3) (μg/m3) (μg/m3) 6.8 12.4 39.9 16.6 10.1 16.5 66.1 30.3		

			LOCA	TION : Near Wa	atch tower 22 (Gr	inding Unit)	
			SO ₂	NO ₂	PM10	PM2.5	СО
			(μg/m3)	(μg/m3)	(μg/m3)	(μg/m3)	(mg/m3)
		Minimum	6.5	12.1	42.4	18.1	0.402
		Maximum	9.5	15.4	69.1	32.1	0.724
		Average	7.8	13.4	55.3	24.9	0.547
				T 1	Near fuel storage		
			SO ₂ (µg/m3)	NO2 (μg/m3)	PM10 (μg/m3)	PM2.5 (μg/m3)	CO (mg/m3)
		Minimum	6.9	13.7	44.7	18.9	0.542
		Maximum	10.1	15.9	67.1	33.6	0.748
		Average	7.8	14.5	56.1	26.7	0.644
xxiv.	A good action plan for	_					2011 vide our
	R & R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R & R policy within three months from the date of issue of this letter.	It was sub	osequently omitted vio		corporating s	00	of MOEF and F/2011 dated
xxv.		> A sepa	arate budge	et earmarked	d for CSR ac	tivities. CSR	study report
	crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure	already JPVL/J	y submitt NSTPP/MC	ted to th PEF/2010 date	he ministry ed 20.01.2011	y vide le and 29.06.201	tter no
	of Rs. 4.8 Crore per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities	Project Admin	as per istration.	the directi	ons and g	uidance of	the District
	to be undertaken shall be submitted within one month along with	Joba).					hamrach and
	road map for implementation.	Project katai & (Nigrie develo furnitu Promo provid Temple Niwas,	s like cond to Hardi & e, Niwas, l pment activate/building tion of Sa ing Medicives in Papal to Nigrie &	lucting Med Mahua Ganvatai & Hanvaties (Nigries material to fety/Culturane Distribute Gaon, katai, Contribution	ical camps in and Champerdi & Mahumer), women end local officed in sports in the declaration of Diasaster of Diasaster end control camps in the declaration of Diasaster end control camps in the camps	n villages (Narach), Plantati a Ganv and mpowerment es (Govt. Of a Rural Area villagers Co storation of Po er Manageme	Development ligrie, Niwas, ion programs Joba), Road & providing fice, School), as/villages & onstruction of onds in Katai, ent (Groceries Patel School

- under Jaiprakash Sewa Sansthan & Jay Jyoti School under Jaiprakash Sewa Sansthan & Gopad Viklang Sikasha Vikas Samiti, Village-Katai.
- ➤ Construction of Kitchen Shed in Gopad Viklang Sikasha Vikas Samiti,Village-Katai.
- Hand Pumps repaired in Nigrie, katai Villages.
- ➤ Total expenditure incurred up to September, 2020 is Rs 4.264 Crores.

xxvi.

part CSR As programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in up liftment of poor section society. of Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will in addition vocational training for individuals imparted take up self employment and jobs.

Based on Need Base Assessment Study for development of nearby villages, an action plan was worked out for income generating projects for up-liftment of poor section of society.

The following activities were undertaken:

- ➤ Sardar Patel Uchchtar Madhyamik Vidyalaya started for up to class five w.e.f. July, 2011 and subsequently upgraded up to 10th class in July'2016 session.
- ➤ Free Education & Free Mid Day Meals provided to the children of affected village Nigrie & Sardar patel School, Nigrie.
- Free Health Check Up & Health cards provided to the 245 students.
- ➤ Roads have been laid down in Nigrie Village & free electricity supply to the Street Lights is provided in R & R Colony.
- Undulated land in the Primary School, Nigrie has been converted into Play Ground.
- ➤ Restoration & Refurbishment of water reservoirs & ponds taken place in nearby villages (Gambhira Talab & Bandhwatara Talab, Katai).
- ➤ Providing Mobile Hospital & Ambulance Service to affected villages (Nigrie, Niwas, katai & Hardi & Mahua Ganv and Chamrach and Joba).
- ➤ An Average of 3453 patients are being benefited every month by the Primary Health Center.
- A Dispensary was also setup in R & R colony. An Average of 600 patients are being benefited every month.
- "Trasform Singrauli" Project under Indian government and MP Government:-
 - 1. Provided Free Medical Checkup facility & Free Medicines in

Nigrie, Niwas, katai & Hardi & Mahua Ganv and Chamrach Villages. 2. Continual supply of Protein Powder, Iron Syrups & Jaggery and Horse Gram to Pregnant Women in above mentioned 6 villages. 3. Multi Vitamin Drops & Zinc Drops have been provided to Malnourished Babies in the villages. 4. Expenditure incurred under "Disaster Management" during COVID -19 Pandemic Lockdown is 1.40 Lakhs. 5. Groceries distributed in the vicinity of the project area Due to COVID -19 Pandemic Disease. 6. 5000 Nose Masks have been distributed in the villages nearby the project area to protect villagers from COVID -19 Pandemic Disease. **Swatch Bharath Mission:** 1. 300 Fruit Yielding plants & 200 other plants have been planted through Gram Panachayath in 6 villages. 2. Provided Utensil (Bartan) for Gopad Viklang Samiti. 3. Eye cataract surgery under Phacoemulsification of villagers. Construction of Public toilet in Nigrie Village. xxvii. Provision shall Labour hutments had been established & developed with all required made for the housing amenities like toilet, drinking water & infrastructure like internal road etc. of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche The etc. housing may be in the form of temporary structures be removed after the completion of the

	project.	
xxviii.	* /	As mandated, We have informed the public through the local newspaper
XX V 111.	shall advertise in at	announcements in vernacular language that the project has been accorded
	least two local	environmental clearance by the ministry and copies of the clearance letter
	newspapers widely	are available with state pollution control board and may also seen at
	circulated in the	website of the MoEF at http://envfor.nic.in.
	region around the	website of the MoEF at http://envior.nic.ni.
	project, one of which	
	shall be in the	
	vernacular language	
	of the locality	
	concerned within	
	seven days from the	
	date of this clearance	
	letter, informing that	
	the project has been	
	accorded	
	environmental	
	clearance and copies	
	of clearance letter are	
	available with the	
	State Pollution Control	
	Board/Committee and	
	may also be seen at	
	Website of the	
	Ministry of	
	Environment and	
	Forests at http://	
	<u>/envfor.nic.in.</u>	
xxix.	A copy of the	Copy of EC accorded has been sent to local panchayat & Zila parishad.
	clearance letter shall	We have uploaded our EC in our company website.
	be sent by the	
	proponent to	
	concerned Panchayat,	
	Zila Parishad/	
	Municipal	
	corporation, Urban	
	Local Body and the	
	local NGO, if any from	
	whom suggestions/	
	representations, if any,	
	received while	
	processing the	
	proposal. The	
	clearance letter shall	
	also be put on the	
	website of the	
	company by the	
	1 ,	
	proponent.	

xxx.	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental	We have formed a separate full-fledged Environment Management Cell headed by Vice President, & supported by Dy. General Manager & Environment Officer and Chemists of laboratory and Technician for implementation and compliance.
	safeguards.	
xxxi.	upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emission) shall be displayed as a convenient location	Complied, We are regularly sending six monthly compliance reports to MOEF & CC Regional Office, CPCB Zonal Office and SPCB every 6 monthly, The same has been sent by email also. Six monthly Compliance on EC conditions including results of monitoring data is being uploaded on company's website and we have also made available ambient air quality levels as well as stack emissions from both units in LED Display in front of the main gate.
	near the main gate of	
	the company in the	
	public domain.	
xxxii.	The project proponent shall also submit six monthly reports on	Complied, six monthly compliance reports are regularly submitted to MoEF, CPCB & MPPCB.
	the status of	The same is also being sent by email.
	compliance of the	
	stipulated EC	Last compliance report had submitted on 19th May 2020 for the period of
	conditions including	October, 2019 - March, 2020 vide our letter no: JNSTPP/ EC/ MoEF/2020-
	results of monitored	21/20 dated May 16 th , 2020. It is uploaded on the website of the company.
	data (both in hard	
	copies as well by e-	
	mail) to the respective	
	Regional Office of	
	MoEF, the respective	
	Zonal Office of CPCB	
	and the SPCB.	

xxxiii.	The environment	Compliance assured, Submitted Environmental Statement in Form- V to
	statement of each	the State Pollution control Board authorities on 28th May 2020 for the
	financial year ending	financial year 2019 -20 vide letter no. JVPL/EC/ES/2019 -20 dated May 27th,
	31st March in Form-V	2020. It is uploaded on the website of the company.
	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	
	status of compliance of	
	EC conditions and	
	shall also be sent to	
	the respective	
	_	
	Regional Offices of the	
	Ministry by e-mail.	
xxxiv.	The project proponent	Being complied, six monthly Environmental Clearance compliance status
	shall submit six	report is regularly submitted to MoEF, CPCB and SPCB.
	monthly reports on	
	the status of the	Compliance status updated on Company's website.
	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 email to	
	the Regional Office,	
	Ministry of	
	Environment and	
	Forests.	
xxxv.	Regional Office of the	Will be complied with, Six monthly Environmental Clearance compliance
	Ministry of	status report is regularly submitted to MoEF, CPCB and SPCB.
	Environment &	Compliance status updated on Company's website.
	Forests will monitor	
	the implementation of	Display board installed in front of main gate.
	the stipulated	
	conditions. A	Results are being displayed at Main gate of the plant.
	complete set of	0 1 7 0 1
	documents including	
	Environmental Impact	
	Assessment Report	
	and Environment	
	Management Plan	
	along with the	
	additional information	
	submitted from time	
	to time shall be	
	forwarded to the	
	Regional Office for	
	their use during	
	monitoring. Project	
	proponent will up-	
	load the compliance	
	status in their website	
	and up-date the same	
	from time to time at	
	least six monthly	
	basis. Criteria	
	pollutants levels	
	including NOx (from	
	stack & ambient air)	
	shall be displayed at	
	the main gate of the	
	power plant.	

Separate funds shall Complied, Dedicated fund has already been allocated and being utilized xxxvi. be allocated for for Environmental Protection Measures i.e., Low NOx Burners, implementation of Constructions of 275m Stack with CEMS, protection from Noise, Effluent environmental Treatment, Sewage Treatment, Green Belt Development have been included in Project Capital Cost & Suppression of Fugitive Emission, protection measures Plantation in the periphery of the project Area, constant monitoring of the along with item-wise break-up. These cost pollution affects within the project area etc. are being undertaken on shall be included as regular basis. part of the project cost. The funds earmarked Recurring expenditures for the period April 2020 to September 2020 is for the environmental as below: protection measures shall not be diverted Green Belt Development 34,32,000/-Rs for other purposes and 41,08,487/-Maintenance cost in CHP Rs year -wise expenditure Operation cost in ESP 9,05,77,846/-Rs should be reported to 1,02,51,943/-Operation Cost of ETP Rs the Ministry. Operation Cost of STP Rs 9,93,770/xxxvii. The project authorities Complied, The project has achieved Financial Closure on 07/05/2010. shall inform the Regional Office as well Unit- I was commissioned on 01/09/2014 & information was sent to as the Ministry MPPCB vide letter No. JNSTPP/PCB/2014-15 Dated November 3, 2014. regarding the date of financial closure and Unit- II was commissioned on 24/03/2015 & information was sent to final approval of the MPPCB vide letter No. JNSTPP/PCB/2015-16 Dated May 26th, 2015. project bv concerned authorities Cement Grinding Unit was commissioned on 09/10/2014 & information and the dates of start was sent to MPPCB vide letter No. JNSTPP/PCB/2015-16 Dated May 28th, of land development 2015. work and commissioning of plant. Company has been fully cooperating and extending full support to the xxxviii. Full cooperation shall be extended to the concerned authorities. Scientists/Officers

Ministry

from

who

Ministry

the

/Regional Office of the

Bangalore/CPCB/SPCB

would

	monitoring the			
	compliance of			
	environmental status.			
xxxix.	Bag house and dust	2 nos. of Bag Houses attached to Cement Mills (Roll Press & Ball Mill)		
	suppression shall be	with guaranteed emission level of <30 mg/Nm3 at full load. Each Bag		
	installed in packing	House has 1188 & 780 bags respectively.		
	area to control the			
	particulate and	To control fugitive emissions all raw material conveying belts are covered.		
	fugitive emissions.	Cyclones followed by Bag Filters are provided at all transfer points.		
		Additionally, mobile water sprinklers are deployed in Grinding Unit area		
		to suppress fugitive dust while movement of vehicles on haulage roads.		



Vardan EnviroLab

Laboratory: Plot No. 24, 25, Narayan Vihar B Block, Jaipur (Raj.) 302035 Corp. Off.: Plot No. 82A, Sector- 5, IMT Manesar, Gurugram- 122051

MoEF & CC Recognised |ISO 9001| OHSAS 45001)

Test Report

Sample Number:

VEL/JPSTPP/W/01

Name & Address of Party:

M/s Jaypee Nigrie Super Thermal

Power Plant

(A Division Of Jaiparkash Power

Venture Limited)

Village & PO, Nigrie, Tehsil: Sarai,

District: Singrauli, (MP)

Sample Description:

Sample Collected by:

Preservation:

Parameter Required: Sampling & Analysis Protocol: Heavy Metals in Ground Water Vardan EnviroLab Representative

Refrigerated As Per Client Requirement

APHA 23rd Edition 2017

Report No.:

Format No.:

VEL/WW/2006250001 5.10 F-01

Party Reference No.:

NIL

Reporting Date:

29/06/2020

Period of Analysis:

Receipt Date:

25/06/2020-29/06/2020 25/06/2020

Sampling Date:

24/06/2020

Sampling Quantity:

2.0 Ltr.

Sampling Type:

TEST RESULTS

S. No.	Locations	Arsenic as As	Mercury as Hg	Chromium as Cr	Lead as Pb
Instrument used for Analysis		AAS Thermo Scientific Model No. AA 303	AAS Thermo Scientific Model No. AA 303	AAS Thermo Scientific Model No. AA 303	AAS Thermo Scientific Model No. AA 303
1	Near ND-CT	BDL	BDL	BDL	BDL
2.	Near Crusher	BDL	BDL	BDL	BDL
3.	Near STP Plant Colony	BDL	BDL	BDL	BDL
4.	Nr. Sardar Patel School	BDL	BDL	BDL	BDL
5.	Nr. Reservoir II	BDL	BDL	BDL	BDL
6.	Nr. Gate No.3	BDL	BDL	BDL	BDL
7.	Nr. Awas Gate	BDL	BDL	BDL	BDL
8.	Wagon Tippler	BDL	BDL	BDL	BDL
Instrum	ient Detection Limit	0.005 mg/l	0.0005 mg/l	0.005 mg/l	0.005 mg/l
	Limit as per IS 10500:2012	3			
	Requirement (Acceptable Limits)	0.01	0.001	0.005	0.01
	Permissible Limit in the Absence of Alternate Source	0.05	No Relaxation	No Relaxation	No Relaxation

Checked By

Note: a) The results listed refer only to the tested samples & applicable parameters

b) Total liabilities of our lab will be restricted to the invoice amount only

c) The Sample will be destroyed after retention time unless otherwise specified

