JAYPEE NIGRIE SUPER THERMAL POWER PLANT

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED

ISO CERTIFIED: 9001:2015, 14001:2015 & 45001:2018







QUALITY

ENVIRONMENT

HEALTH & SAFETY

INSTPP/ EC/ MoEF/2022-23/26

16th May, 2023

The 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

Sub: Submission of Half Yearly Environmental Clearance Compliance Report of Jaypee Nigrie Super Thermal Power Plant (A Division of Jaiprakash Power Ventures Limited), 2x660 MW Coal Based Super Critical Thermal Power Plant and 4.0 MTPA Cement Grinding Unit at Village Nigrie, Tehsil Sarai, Dist. Singrauli 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 (October, 2022 - March, 2023) of Jaypee Nigrie Super Thermal Power Plant, 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 Plant (A Division of Jaiprakash Power Ventures Ltd.)

May 16/05/2023 Vinod Sharma

Unit Head

Encl. - As above

CC to:

- The Regional Directorate (Central), Central Pollution Control Board, 3rd Floor, Sahkar Bhawan, 1. North T.T Nagar, Bhopal- 462003.
- The Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5 Area 2. Colony, Bhopal - 462016, Madhya Pradesh.
- Regional office MP Pollution Control Board, Bhakuar, Naugarh, Singrauli 486 887 (M.P.) 3.

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Corp. Office: 'JA House', 63 Basant Lok, Vasant Vihar, New Delhi - 110 057 (India) Ph: +91 (11) 49828679, 49828642, Fax: +91 (11) 26145389

Regd. Office: Complex of Jaypee Nigrie Super Thermal Power Plant, Tehsil - Sarai, Distt. - Singrauli - 486669 (Madhya Pradesh) Ph: +91 (7801) 286021 - 39, Fax: +91 (7801) 286020

CIN: L40101MP1994PLC042920

Website: www.jppowerventures.com



Half - Yearly Compliance Report Of

Environmental Clearance Period: October, 2022–March, 2023

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 (2x660 MW) Coal based Thermal Power Plant

26th Half Yearly Environmental Clearance Compliance statement of the stipulation of MoEF

EC Letter No.:- J-13012/223/2007-IA.II(T) 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	Terms and Conditions	Compliance Status report			
No.	Description as per EC letter				
i.	Environmental Clearance is subject to submission of complete details of R & R action plan (as applicable) with time schedule for implementation to the 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	Our R&R plan has been submitted to the Regional Office of the Ministry vide our letter No. JPVL/JNSTPP/MOEF/2010 on dated 20th January, 2011. It was subsequently modified incorporating suggestions of MoEF and was further resubmitted vide letter no JPVL/ JNSTPP/MOEF/2011 dated 29.06.2011.			
given. Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity & quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.		Hydrogeological study of the plant and its buffer zone (10 km radius area) 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 last study report was submitted in Sept, 2022 for the year 2021-2022. Water level check from existing Piezometer wells are being regularly carried out on monthly basis. 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 Water.			
iii.	Minimum required environmental flow suggested by the competent authority of the State Govt.	Being Complied, The Water Resource Department and Government of Madhya Pradesh has permitted JPVL to draw 42 MCM of water from Gopad River for Jaypee Nigrie Super Thermal Power Plant. The Minimum recommended discharge is being released in the River			

iv.	shall be maintained in the Channel/Rivers even in lean season. It shall be ensured that natural drainage in the region is not disturbed due to activities associated with operation of the plant. A stack of 275 m height (Bi-	during lean period (i.e. from January to May). 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. On the basis of last 10 years Hydro geological studies, it shows that the River flow in the month of May/June ranges from minimum 1.073 cumecs (m³/sec) to maximum 2.97 cumecs (m³/sec), which is substantially more than the 0.50 cumecs (m³/sec) i.e. minimum flow recommended by Water resources department. Bi-flue Stack of 275 m height is installed with Continuous Online Stack
14.	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.	monitoring equipment's for parameters PM, SO ₂ , NOx & Hg. The exit velocity of flue gases is more than 25.0m/sec as stipulated. Mercury measurement is also being done through installed 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 from the Grinding Unit shall not exceed 50 mg/Nm ³ .	Cement Grinding Unit Two stacks of height 55m (each) with exit velocity not less than 10 m/s have been installed with Continuous Online Stack monitoring equipment's for parameter PM. Further 2 nos. of Bag Houses attached to Cement Mills (Roll Press & Ball Mill) having respectively 1188 & 780 bags with guaranteed emission level less than 30 mg/Nm³ at full load.
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 daily basis.	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 Cement Grinding Unit area to suppress fugitive dust generated during movement of vehicles on haulage roads.
vii.	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³.	Highly efficient BHEL make Electrostatic Precipitators (ESPs) with efficiency of 99.95% have been installed for each boiler to meet particulate emission less than 50 mg/Nm³. Online Continuous Emission Monitoring System is installed to Monitor Emissions for both stacks (Unit 1 & Unit2) and data is being regularly transmitted to MPPCB & CPCB servers on real time basis and the results are within the prescribed norms. For stack (Unit-I): Average concentration of PM is 39.41 mg/Nm³, maximum concentration is 42.98 mg/Nm³ & the minimum concentration is 33.27 mg/Nm³ during October, 2022 – March, 2023. For stack (Unit-II): Average concentration of PM is 36.86 mg/Nm³,
		maximum concentration is 41.34 mg/Nm³ & the minimum concentration is 25.17 mg/Nm³ during October, 2022 – March, 2023.

viii. Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.

Adequate Air Pollution Control measures such as Dust Extraction System (Cyclone followed by Bag Filters) are installed 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.

Arrangement for Dust Suppression

- A) Two number of Dust Extraction Systems in Crusher House are Bag house type with Capacity 46,000 m³ and 1 number of Bag house for each Bunker (Unit 1 & 2) with Capacity 41,000 m³.
- B) Dust Suppression systems are installed in Track Hopper and all 4 Paddle Feeders, for rake unloading at track hopper. Dust Suppression systems are also installed in 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.
- E) Elaborate dust extraction & dust suppression system have been incorporated in the design of ash handling plant.
- ❖ One number of Dust extractions 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 be reported to the regional Office of the Ministry from time to time.

100.09 % of Fly Ash has been utilized during Financial year April, 2022 to March, 2023 as per MoEF & CC Notification No. 763 (E) dated September 14, 1999 and its subsequent amendments on ash utilization from coal or lignite thermal power plants.

Status of Implementation is being reported to Authorized Regulatory Boards on regular basis.

Fly Ash has been utilized during period October, 2022 – March, 2023 is 133.35 %.

Fly Ash shall be collected in dry form and storage facility (silos) shall provided. 100% fly utilization shall be ensured from 4th year onwards. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.

Complied with.

We have established 2 Intermediate silos to collect dry fly ash with each capacity of 450 MT & a fly ash bin of 400 MT capacities for utilization of dry ash in cement grinding unit and a storage silo of 20,000 MT capacities for utilization of dry ash.

100.09 % of Fly Ash has been utilized during Financial year April, 2022 to March, 2023 as per MoEF, New Delhi Notification No. 763 (E) dated September 14, 1999 and its subsequent amendments on ash utilization from coal or lignite thermal power plants.

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.

Regular Monitoring of Heavy Metals is being carried out in the bottom ash and ash pond water on Six monthly basis.

xi.	Ash pond shall be lined with HDP/LDP lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from	The Design of One Ash Pond with two lagoons has been done by M/s Development Consultants Pvt. Ltd. (DCPL) a renowned designing agency. M/s DCPL drawing of One Ash Pond with two lagoons has been submitted to MPPCB vide letter no. JPVL/COORD/ POLL/2013-14 dated January 21st, 2014. The drawing No. is K6A24–DWG-C-595 Rev. 4. The Ash Dyke has been constructed with upstream & downstream slopes (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.							
	getting breached.	One Ash Pond with two lagoons is built over an area of 21.20 ha and equipped with 100% Ash water recirculation facility to prevent any ash mixed water discharge to outside. The Ash Dyke is situated within intact boundary wall of Power Plant.							
xii.	For disposal of Bottom Ash (if proposed to be 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	Being Complied. Prior permission has been taken from MPPCB for reclamation of abandoned mine by fly ash filling.							
xiii.	undertaking the activity. Closed Cycle Cooling System with natural draft cooling towers shall be provided. The Effluents shall be treated as per the prescribed norms.	treated adequately to meet the prescribed norms through High Rate Solid Contact Clarifier (HRSCC), Dual Media Filter (DMF), Ultra							
			F.	or the period	TDS	COD			Chlorid
		Month	pН	SS (ppm)	(ppm	(ppm	BOD (ppm)	O&G (ppm)	es (ppm)
		Oct-22	7.53	*BLQ (**LOQ-1.0) *BLQ	12.0	7.68	*BLQ (**LOQ-2.0) *BLQ	*BLQ (**LOQ-0.4) *BLQ	3.18
		Nov-22	7.41	(**LOQ-1.0) *BLQ	15.0	6.40	(**LOQ-2.0) *BLQ	(**LOQ-0.4)	3.77
		Dec-22	7.29	(**LOQ-1.0) *BLQ	14.4	9.60	(**LOQ-2.0) *BLO	(**LOQ-0.4) *BLQ	2.58
		Jan-23 Feb-23	7.56 7.48	(**LOQ-1.0) *BLQ (**LOQ-1.0)	13.3 14.00	8.40 11.52	(**LOQ-2.0) *BLQ (**LOQ-2.0)	(**LOQ-0.4) *BLQ (**LOQ-0.4)	1.98 3.18
		Mar-23	7.73	*BLQ (**LOQ-1.0)	13.60	9.60	*BLQ (**LOQ-2.0)	*BLQ (**LOQ-0.4)	2.98
		•		nit of Quantificat			of Quantification	on	
xiv.	The treated effluents conforming to the prescribed standards only	Treated	water	ted effluents is being re ge Condition	used w	vithin t	the plant its	•	

shall be re-circulated and No any mixing of storm water occurs as there is a separate drainage reused within the plant. network established for storm water. There shall be no discharge Upstream & Downstream water quality of Gopad River is also being outside the plant boundary monitored. except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed. Sewage Treatment Plants have been installed of capacity 1000 KLD and xv. A sewage treatment plant shall be provided and the 100 KLD. Treated water reused suitably within the plant premises for treated sewage shall be used green belt development purposes. TREATED SEWAGE WATER ANALYSIS raising (1000 KLD STP in Township Area) greenbelt/plantation. For the period of October, 2022 – March, 2023 O & G SS BOD COD Month pΗ (ppm) (ppm) (ppm) (ppm) Oct-22 7.35 28.0 14.0 76.8 1.80 Nov-22 7.42 35.0 16.0 62.4 2.40 Dec-22 7.31 24.0 13.0 72.9 2.00 Jan-23 7.63 20.0 15.0 1.92 76.8 Feb-23 7.21 17.0 11.0 84.4 1.75 Mar-23 7.38 23.0 2.10 13.0 92.6 TREATED SEWAGE WATER ANALYSIS (100 KLD STP in Plant Area) For the period of October, 2022 – March, 2023 **BOD** COD O & G SS Month pН (ppm) (ppm) (ppm) (ppm) Oct-22 7.22 14.0 7.0 38.40 1.60 Nov-22 7.18 22.0 10.0 52.2 1.80 Dec-22 7.25 19.0 8.0 1.00 46.1 7.40 17.0 Jan-23 9.0 54.6 1.35 7.34 14.0 57.6 Feb-23 10.0 1.60 49.9 Mar-23 7.02 11.0 8.0 1.70 xvi. Rainwater harvesting Rain Water Harvesting scheme has been prepared & submitted to obtain approval of the technology from Regional Director, Central should be adopted. Central Ground water Ground Water Board, Bhopal and submitted the same to the MoEF Authority/Board shall be along with the EC Compliance Report of June, 2013. consulted for finalization of Rain water harvesting pit within the township area has been appropriate rainwater harvesting technology constructed to augment the ground water table and to recharge ground within a period of three water during monsoon season. months from the date of clearance and details shall be furnished. Adequate safety measures Fire-fighting team along with requisite equipment's is available at site xvii. shall be provided in the & same also supporting the requirements of the neighboring villages to check/ plant area to take preventive control measures along with adequate safety measures.

Mock drills are being conducted periodically.

minimize spontaneous fires

coal yard, especially

during summer season. Fire hydrant and water jet type sprinklers are installed in the coal yard. Copy of these measures Reviewed On Site Emergency Plan of Jaypee Nigrie Super Thermal with full details along with Power Plant was Submitted to The Director, Industrial Health & Safety, location plant lay out shall Indore vide OSEP No.RE22122211507294 and approval of the same was be submitted to the Ministry granted on dated 13.01.2023 having validity up to 12/01/2025. as well as to the Regional Office of the Ministry. xviii. Storage facilities for Storage facilities for auxiliary liquid fuel are made in the plant area and auxiliary liquid fuel such as license obtained from Department of Explosives, Nagpur/Bhopal. LDO and HFO/LSHS shall Validity of license No. P/HQ/MP/15/2876(P311713) from Jt. Chief be made in the plant area in Controller of Explosives, Bhopal, for Petroleum Class C (LDO & HFO) consultation with in bulk installation was obtained on dated 09/01/2023 having validity Department of Explosives, up to 31st December 2027. Nagpur. Sulphur content in Onsite Emergency Plan (Disaster Management Plan) has been approved the liquid fuel will not by Director, Industrial Health and Safety, Indore (M.P), vide. OSEP exceed 0.5%. Disaster No.RE22122211507294, having validity up to 12/01/2025. This plan Management Plan shall be covers all type of emergency including storage of oil. prepared to meet eventuality in case of an accident taking place due to storage of oil. xix. Regular monitoring Regular monitoring of ground water level by establishing a network of ground water level shall be 8 nos. of piezometer wells with in plant area is being carried out on carried out by establishing a monthly basis. network of existing wells and constructing Monitoring of ground water (Piezometer wells) for heavy metals (Hg, new piezometers. Cr, As, Pb) is being carried out regularly on six Monthly basis. Monitoring around the ash pond area shall be carried Third Party Test Report is annexed as **Annexure – I.** out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project. Green belt consisting of 3 Complied with. xx. tiers of plantations of native ➤ Green belt development/ plantation is being carried out inside the species around plant and at plant premises. An effective green belt is being developed with least 100 m width shall be suitable native species as per CPCB guidelines, Efforts are further raised. Wherever 100 m made to develop more green belt in the plant. A nursery is also width is not feasible a 50 m established at site. width shall be raised and ➤ Green belt & Green cover is being developed continuously.

adequate justification shall

Ministry. Tree density shall not less than 2500 per ha

submitted

Greenbelt is being developed in a phased manner along the periphery

▶33% of total area has been developed as Green belt area located in and

around plant including cement grinding unit i.e. around 144.21

of the Power Plant and Grinding Unit.

xxi. First Aid and sanitation arrangements shall be made for the drivers and other contract workers during the drivers and other contract workers during the drivers and sanitation facility provided for the drivers and contract workers during construction phase. Site sanitation and housekeeping is being maintained regularly. 10 bedded Hospital equipped with all required facilities for First Aid and sanitation facility provided for the drivers and contract workers during the drivers and contract workers and other contract workers during the drivers and contract workers and contract workers during the drivers and contract workers and other contract workers during the drivers and contract workers and other contract workers during the drivers and contract workers and other contract workers during the drivers and contract workers and other contract workers during the drivers and contract workers are drivers and contract workers are drivers and contract workers are drivers and contract workers.
construction phase. available at site.
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 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. xxiii. Regular monitoring of Ground level concentration of SO ₂ , NO ₃ , 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 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. Compliance Regular monitoring results are being submitted to MPPCB quart within the provided in consultation with SPCB. Regular monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Regular monitoring results are being submitted to MPPCB quart within the prescribed norms. Compliance Report. Compliance Repor

		AAQMS Results					
		For the period of October, 2022 – March, 2023					
			LOCA	ATION : Ne	ar STP - Colo	ony area	
			PM _{2.5}	PM ₁₀	SO ₂	NO ₂	СО
			(μg/m³)	(µg/m³)	(μg/m³)	(μg/m³)	(mg/m³)
		Minimum	21.7	44.6	6.0	11.5	0.490
		Maximum	24.1	49.1	7.3	13.0	0.550
		Average	22.8	46.6	6.4	12.2	0.526
			LOCAT	TION : Near	H ₂ Gas cylin	nder shed	
			PM _{2.5}	PM ₁₀	SO_2	NO ₂	СО
			$(\mu g/m^3)$	(μg/m³)	$(\mu g/m^3)$	$(\mu g/m^3)$	(mg/m³)
		Minimum	24.3	49.4	6.3	12.4	0.550
		Maximum	28.6	56.1	8.3	14.9	0.616
		Average	26.0	52.2	7.3	13.5	0.574
		LO	OCATION	: Near Wato	h tower 22 (Grinding Un	it)
			PM _{2.5}	PM ₁₀	SO ₂	NO ₂	СО
			(μg/m³)	(µg/m³)	(μg/m³)	(μg/m³)	(mg/m ³)
		Minimum	25.5	52.8	6.7	12.9	0.540
		Maximum	28.8	58.0	8.5	15.1	0.578
		Average	27.4	55.5	7.5	13.7	0.556
			LOCA	ATION : Ne	ar fuel stora	ge tank	1
			PM _{2.5}	PM ₁₀	SO ₂	NO ₂	СО
			(μg/m³)	(µg/m³)	(μg/m³)	(μg/m³)	(mg/m ³)
		Minimum	26.4	52.5	7.1	12.9	0.560
		Maximum	28.1	56.7	8.4	14.7	0.609
		Average	27.4	54.0	7.9	13.9	0.588
xxiv.	A good action plan for R & R (if applicable) with package for the project affected persons be submitted and implemented as per prevalent R & R policy within three months from the date of issue of this letter.	letter No. JPV It was subse	VL/JNSTPF quently m	P/MoEF/201 odified inco	0. orporating s	uggestions o	2011 vide our of MOEF and F/2011 dated

An amount of Rs. 24.0 xxv. crores shall be earmarked as one time capital cost for **CSR** programme. Subsequently a recurring expenditure of Rs. 4.80 Crore per annum shall be recurring earmarked as expenditure for **CSR** activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.

- ➤ A separate budget earmarked for CSR activities. CSR study report already submitted to the Ministry vide letter no. JPVL/JNSTPP/MOEF/2010 dated 20.01.2011 and 29.06.2011.
- ➤ For CSR activities capital outlay of more than Rs. 24.00 crores has been made.
- ➤ The company is carrying out CSR activities in the vicinity of the Project as per the directions and guidance of the District Administration.
- ➤ Unit is also investing on CSR Activities on Rural Development Projects like PCC road construction in Niwas village (near Phoolmati Temple), Pipe Bridge development on Karondiya Nallah for connecting Papal village to Chamrach village. Construct Boundary wall in Govt. Middle School, Nigrie.
- ➤ Free Cataract operation to nearby 26 peoples.
- ➤ Deepening, Restoration & Refurbishment of 2 no. of ponds in nearby villages Niwas and Papal.
- ➤ Construction of six Handpumps in nearby villages Nigrie, Bharsedi, and Chamrach for drinking water facility.
- ➤ Providing furniture to Police Department, Deosar. Skill development trainings imparted for Women empowerment.
- ➤ Promotion of Safety/Cultural/sports activities in nearby Rural Areas/villages (Nigrie & Niwas), providing water via water tankers to the nearby villages as per requirement.
- ➤ Promoting Education through Sardar Patel School under Jaiprakash Sewa Sansthan & Gopad Viklang Sikasha Vikas Samiti, Village-Katai.

Total expenditure incurred up to March, 2023 is Rs 7.2841 Crores.

xxvi. As part of CSR programme

the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help upliftment of poor section of society. Income generating projects consistent with the the traditional skills of 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 income generating programmes. This will be in addition to Based on Need Based Assessment Study for development of nearby villages, an action plan was worked out for income generating projects for upliftment of poor section of society.

The following activities were undertaken:

- ➤ Sardar Patel Uchchtar Madhyamik Vidyalaya was started up to class Vth 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 229 students.
- ➤ Free electricity supply is provided to the Street Lights in R & R Colony.
- Providing Mobile Hospital & Ambulance Service to affected villages (Nigrie, Niwas, Katai, Hardi, Mahuagaon, Chamrach and Joba).
- ➤ PCC road construction in Niwas village (near Phoolmati Temple), Pipe Bridge development on Karondiya Nallah for connecting Papal village to Chamrach village.
- ➤ A Dispensary was also setup in R & R colony for providing treatment facilities to the nearby residents.

	vocational training for individuals imparted to take up self-employment and jobs.	 Provide financial aid to Gopad Viklang Sikasha Vikas Samiti, Village-Katai, Indian Red cross society and Chainsingh Markam Trust. "Transform Singrauli" Project under Indian government and MP Government: Providing free Medical Check-up facility, Ambulance facility, Free Medicines in nearby villages (Nigrie, Niwas, Katai, Hardi, Mahuagaon and Chhamrach). Established/Started Kuteer Udyog, Training Center for Stitching and honey bee keeping. Expenditure incurred on "Trasform Singrauli" during period October, 2022 – March, 2023 is Rs. 2.50 Lakhs.
xxvii.	Provision shall be made for the housing 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 etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Labour hutments had been established & developed with all required amenities like toilet, drinking water & infrastructure, Medical health care etc.
xxviii.	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in.	As mandated, We have informed the public through the local newspaper announcements in vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with State Pollution Control Board and may also seen at website of the MoEF&CC at http://envfor.nic.in.
xxix.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal corporation,	Copy of EC accorded has been submitted to local panchayat & Zilaparishad. We have uploaded copy of EC letter in our company website.

	II.l I 1 D . 1 1 (l	
	Urban Local Body and the	
	local NGO, if any from	
	whom suggestions/	
	representations, if any,	
	received while processing	
	the proposal. The clearance	
	letter shall also be put on	
	the website of the company	
	by the proponent.	
xxx.	A separate Environment	We have formed a separate full-fledged Environment Management Cell
	Management Cell with	headed by Vice President supported by Dy. General Manager, Asst.
	qualified staff shall be set	Manager, Chemists of laboratory & Technician for implementation and
	up for implementation of	compliance of the stipulated environmental safeguards.
	the stipulated	
	environmental safeguards.	
xxxi.	The proponent shall upload	Complied, We are regularly submitting Six Monthly EC Compliance
	the status of compliance of	reports to MoEF& CC Regional Office, CPCB Zonal Office and SPCB.
	the stipulated EC	reports to more a secretary energy of the restant of the and of the
	conditions, including results	Six Monthly Compliance Reports on EC conditions including results of
	of monitored data on their	monitoring data is being uploaded on company's website and we have
	website and shall update	also made available display in front of the main gate for displaying of
	the same periodically. It	ambient air quality data as well as stack emissions levels of both the
	shall simultaneously be sent	units.
	to the Regional Office	units.
	MoEF, the respective Zonal	
	Office of CPCB and the	
	SPCB. The criteria pollutant levels namely; SPM, RSPM,	
	5	
	SO ₂ , NO _x (ambient levels as well as stack emission) shall	
	,	
	be displayed as a	
	convenient location near the	
	main gate of the company in	
••	the public domain.	
xxxii.	The project proponent shall	Complied, Six Monthly Compliance reports are being regularly
	also submit six monthly	submitted to MoEF, CPCB & MPPCB.
	reports on the status of	
	compliance of the stipulated	Last EC Compliance report for the period of April, 2022 to September,
	EC conditions including	2022 was submitted vide our letter no: JNSTPP/ EC/ MoEF/2022-23/25
	results of monitored data	on dated 25thNovember, 2022 and copy of the same is also uploaded on
	(both in hard copies as well	the company website.
	by e-mail) to the respective	
	Regional Office of MoEF,	
	the respective Zonal Office	
	of CPCB and the SPCB.	
xxxiii.	The environment statement	Compliance assured, Submitted Environmental Statement in Form- V
	of each financial year	for the Financial year 2021 -22 to the State Pollution Control Board
	ending 31st March in Form-	authorities vide our letter no. JVPL/EC/ES/2021-22 on dated May 17 th ,
	V as is mandated to be	2022 and the same was also uploaded on the company website.
	submitted by the project	
	proponent to the concerned	

	11	
	state pollution control board	
	as prescribed under the	
	Environment (Protection)	
	Rules, 1986, as amended	
	subsequently, shall also be	
	1	
	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.		Paing complied Six Monthly Environmental Clearance compliance
XXXIV.	The project proponent shall	Being complied, Six Monthly Environmental Clearance compliance
	submit six monthly reports	status report is being regularly submitted to MoEF, CPCB and SPCB.
	on the status of the	Compliance status updated on Company's website.
	implementation of the	Compilate status apaated on company s website.
	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	
	1	
	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
	Ministry of Environment &	Compliance status report is regularly submitted to MoEF, CPCB and
	Forests will monitor the	SPCB.
	implementation of the	
	stipulated conditions.	Compliance status updated on Company's website.
	A complete set of	Display board installed in front of main gate.
		Results are being displayed at Main gate of the plant.
	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 upload the	
	compliance status in their	

	. 1.2 1 1						
	website and update 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.						
xxxvi.	Separate funds shall be	Complied, Dedicated fund has alre	ady been allocated included in				
70,000	allocated for	Project Capital Cost and being utiliz	,				
	implementation of						
	environmental protection		Measures i.e., Low NOx Burners, Constructions of 275m Stack with CEMS, Protection measures from Noise, Waste Water Treatment Plant,				
	measures along with item-	Sewage Treatment Plant, Green Belt D	Pevelopment.				
	wise break-up. These cost	Suppression of Fugitive Emission, M	aintaining ZLD. Plantation in the				
	shall be included as part of	periphery of the project area, const	0				
	the project cost.	affects within the project area etc.					
	The funds earmarked for	basis.	are being undertaken on regular				
	the environmental		10.1. 2022 15.1.2022				
	protection measures shall	Recurring expenditures for the period	od October, 2022 – March, 2023 is				
	not be diverted for other	as below:	D 15 12 000/				
	purposes and year -wise	Green Belt Development	Rs 15,12,000/-				
	expenditure should be reported to the Ministry.	Maintenance cost in CHP	Rs 51,17,479/-				
	reported to the Ministry.	Operation cost in ESP	Rs 9,86,89,484/-				
		Operation Cost of ETP	Rs 83,94,643/-				
		Operation Cost of STP	Rs 12,33,236/-				
xxxvii.	The project authorities shall	Complied, The project has achieved F	inancial Closure on 07/05/2010.				
	inform the Regional Office	Unit- I was commissioned on 01/09	/2014 & information was sent to				
	as well as the Ministry	MPPCB vide letter No. JNSTPP/PCB/2					
	regarding the date of						
	financial closure and final	Unit- II was commissioned on 24/03 MPPCB vide letter No. JNSTPP/PCB/2					
	approval of the project by	MFFCB vide letter No. JNSTFF/FCb/2	2015-16 Dated May 26, 2015.				
	the concerned authorities	Cement Grinding Unit was commissi					
	and the dates of start of land development work and	was sent to MPPCB vide letter No.	JNSTPP/PCB/2015-16 Dated May				
	development work and commissioning of plant.	28 th , 2015.					
xxxviii	Full cooperation shall be	Company has been fully cooperating	and extending full support to the				
70077111	extended to the Scientists/	concerned authorities and will also co					
	Officers from the Ministry /						
	Regional Office of the						
	Ministry at Bangalore/						
	CPCB/SPCB who would be						
	monitoring the compliance						
	of environmental status.						
xxxix.	Bag house and dust	2 nos. of Bag Houses are attached to	Coment Mills (Poll Press & Poll				
XXXIX.	Bag house and dust suppression shall be	Mill) with guaranteed emission level	•				
	installed in packing area to	Bag House has 1188 & 780 bags respec	o .				
	control the particulate and		·				
	fugitive emissions.	To control fugitive emissions follow	ing measures have been taken:				
		1. All raw material conveying belts are	e covered.				
							

	 Cyclones followed by Bag Filters are provided at all transfer points. Mobile water sprinklers are deployed in Grinding Unit area to suppress fugitive dust while movement of vehicles on haulage roads.
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Test Report

Sample Number:

VEL/JNSTPP/W/01

Name & Address of the Party:

M/s Jaypee Nigrie Super Thermal

Power Plant

(A Division of Jaiparkash Power Ventures Limited) Village & P.O. Nigrie, Tehsil-Sarai, Distt. Singrauli

(M.P.)

Sample Description: Sample Collected by:

Piezo well water (Heavy Metals) Vardan Enviro Lab Representative

Preservation:

Refrigerated

Parameter Required: Analysis Protocol:

As Per Client Requirement

APHA 22nd Edition 2012

Report No .:

Format No.:

Party Reference No.:

Reporting Date:

Period of Analysis: Receipt Date:

Sampling Date: Sampling Quantity:

Sampling Type:

Test Method

VEL/WW/23/01/16/01

5.10 F-01

NIL

20/01/2023

16/01/2023 - 20/01/2023

16/01/2023 11/01/2023

2.0Ltr.

APHA 22nd Edition 3111B

S. No.	Locations	#Arsenic as As in mg/l	#Mercury as Hg in mg/l	Chromium as Cr in mg/l	Lead as Pb in mg/
In	strument used for analysis	ICP-MS (7800) Agilent	ICP-MS (7800) Agilent	ICP-MS (7800) Agilent	ICP-MS (7800) Agilent
1.	Near NDCT	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
2.	Near Crusher	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
3.	Near STP Plant in Colony	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
4.	Near Sardar Patel School	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
5.	Near Reservoir II	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
6.	Near Gate No.3	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
7.	Near Awas Gate	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
8.	Near Wagon Tippler	BLQ (LOQ-0.005)	BLQ (LOQ-0.0005)	BLQ (LOQ-0.002)	BLQ (LOQ-0.002)
Ins	trument Detection Limit	0.005 mg/l	0.0005 mg/l	0.002 mg/l	
	Limits of IS 10500:2012		olouce mg/r	0.002 mg/1	0.002 mg/l
	Requirement (Acceptable Limits)	0.01	0.001	0.05	0.01
	Permissible Limit in the Absence of Alternate Source	No Relaxation	No Relaxation	No Relaxation	No Relaxation

mit of Quantification, **LOQ- Limit of Quantification.

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