### JAYPEE NIGRIE SUPER THERMAL POWER PLANT

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED

JNSTPP/ EC/ MoEF/ 2019-20/19

JAIPRAKASH POWER VENTURES LIMITED

Nov 20th, 2019

To

Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5. Kendriya Paryayaran Bhawan

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 Unit 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 2019 – Sep 2019) 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 Unit of Jaiprakash Power Ventures Ltd.)

Vinod Sharma
Sr. President (O & M)

Encl. – As above

CC to:

 Central Pollution Control Board Regional Directorate (Central)
 3rd Floor, Sahkar Bhawan, North T.T. Nagar, Bhopal (Madhya Pradesh) 462 003

 Head Office,
 MADHYA PRADESH POLLUTION CONTROL BOARD Paryawaran Parisar,
 E-5, Arera colony,
 Bhopal - 462016

 Regional Office, M.P. Pollution Control Board,

MADHYA PRADESH, INDIA

: Jaypee Nigrie Super Thermal Power Plant, Village & P.O. Nigrie, Tehsil Sarai, Distt. Singrauli (M.P.) Ph.: +91 (7801) 285021 - 36 Fax: +91 (7801) 286020 Email: jpthermal.sidhi@jalindia.co.in

Sector-2, Plot No.217, Navjeevan Vihar, Post: Vindhyanagar : +91 (11) 49828679, 49828642 Fax : +91 (11) 26145389

Regd. Offi

Site

Regd. Office: Complex of Jaypee Nigrie Super Thermal Power Plant, Nigrie Tehsil Sarai, Distt. Singrauli 486669, (Madhya Pradesh)
Ph.: +91 (7801) 286021-39 Fax: +91 (7801) 286020
Website: www.jppowerventures.com CIN: L40101MP1994PLC042920

Singrauli AYPEE

# Six Monthly Compliance Report Of

# Environmental Clearance Period: April 2019 - September 2019

Of

M/s Jaiprakash Power Ventures Ltd.

2x660 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

19th 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	Our R&R plan has been submitted to the Regional Office of the Ministry
	Clearance is subject to	vide our letter No. JPVL/JNSTPP/MOEF/2010 dated 20th January 2011.
	submission of	
	complete details of R	It was subsequently modified incorporating suggestions of MoEF and was
	& R action plan (as	resubmitted vide letter no JPVL/JNSTPP/MOEF/2011 dated 29.06.2011.
	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.	
ii.	Hydro-geological	Hydrogeological study of the Jaypee Thermal Power Plant, Nigrie is being
	study of the area shall	carried out every year by an independent agency M/s Hydro-geosurvey
	be reviewed annually	Consultants Pvt. Ltd, Jodhpur, Rajasthan an National Accreditation Board
	and results submitted	for Education and Training (NABET) Accredited & Quality Council of
	to the Ministry and	India (QCI) Accredited and reports are submitted to concerned
	concerned agency in	departments timely.
	the State Govt. In case	
	adverse impact on	On the basis of Hydro geological studies, it shows that the River flow in
	ground water quantity	the month of June, in last 6 years ranges from 2.92 Cumecs to 1.798
	& quality is observed,	cumecs, which is substantially more than minimum recommended flow of
	immediate mitigating	0.50 cumecs.
	steps to contain any	

	adverse impact on	The last study report was submitted in July 2019.
	ground water shall be undertaken.	Water level check from existing peizometer wells being carried out monthly.
		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.
		Presently, JPVL is drawing water from surface water source (Gopad River) within quantity allocated (42 MCM) by <b>DoWR</b> , <b>Madhya Pradesh</b> .
iii.	Minimum required environmental flow suggested by the	Being Complied, <b>The Water Resource Department, Government of Madhya Pradesh</b> has permitted JPVL to draw 42 MCM of water from Gopad River for Thermal Power Project.
	competent authority of the State Govt. shall be maintained in the Channel/Rivers even	The Minimum recommended discharge is being released in the River during lean period (summer season).
	in lean season. It shall be ensured that natural drainage in the	Natural Drainage in the region is not being disturbed due to the activities associated with the operation of the plant.
	region is not disturbed due to activities associated with	The Project is not obstructing the flow of River Gopad; The natural drainage of the region is not being affected.
	operation of the plant.	
iv.	A stack of 275 m height (Bi-flue) shall be provided with	Bi-flue Stack of 275 m height is installed with Online monitoring equipments for PM, SO <sub>2</sub> , NOx & Hg.
	continuous online monitoring	The exit velocity of flue gases is more than 25.0 m/sec as stipulated.
	equipments for SOx NOx and PM. Exit	Mercury measurement is also being done through online analyzers.
	velocity of flue gases shall not be less than	
	25 m/sec. Mercury emissions from stack	
	shall also be monitored on periodic basis.	
v.	F	Two stacks of 55m each with exit velocity not less than 10 m/s have been
'.	Unit two stacks of 55	installed with Online monitoring equipments for PM in Cement Grinding
	m each with exit	Unit. 2 nos. of Bag Houses attached to cement mills (Roll Press & Ball
	velocity not less than	Mill) with guaranteed emission level of <30 mg/Nm3 at full load. Each
	10 m /s shall be	Bag House has 1188 &780 bags respectively.
	installed. Emission	
	from the Grinding	Jaypee Nigrie Cement Grinding Unit is a Unit of Jaiprakash Power

	Unit shall not exceed	Ventures Limited is presently not in operation since October 2018 due to
	50 mg/Nm3.	non availability of raw material.
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 Grinding Unit area to suppress fugitive dust while movement of vehicles on haulage roads.
vii.	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to	Highly efficient BHEL make Electro Static Precipitators (ESPs) with efficiency of 99.93%, 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 33.56 mg/Nm3, maximum concentration is 43.35 mg/Nm3 & the minimum concentration is 19.41 mg/Nm3 during April – Sep 2019.
		For stack (Unit-II) average concentration of PM is 38.72 mg/Nm3, maximum concentration is 47.66 mg/Nm3 & the minimum concentration is 17.87 mg/Nm3 during April – Sep 2019.
viii.	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas	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	100% Fly Ash is being utilized as per MoEF & CC Notification Nos 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.
	implementation shall be reported to the regional Office of the Ministry from time to time.	Status of Implementation is being reported to Authorized Regulatory Boards regularly.
X.	Fly Ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash 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	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.  100% Fly Ash is being utilized as per MoEF & CC Notification Nos 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.  Bottom ash is being disposed off in the ash pond in lean Slurry Disposal mode with ash to water ratio typical 1:3, with recirculation of ash water.  Regular monitoring of heavy metals is being carried out Half Yearly.
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 getting breached.	Well designed ash dyke with HDPE lining has been established as per the guidelines of MoEF, CEA & CPCB. Adequate safety measures were taken for any unforeseen incidents.  Adequate safety measures also taken to protect the ash dyke from getting breached.
xii.	For disposal of Bottom Ash (if proposed to be undertaken) in abandoned mines it	Not applicable, as presently bottom ash is not disposed in any abandoned mines.

shall be ensured that the bottom and sides of the mined out areas are adequately lined clay with before Bottom Ash is filled up. The project proponent shall inform the state Pollution Control Board well in advance before undertaking the activity.

Closed cycle cooling system with natural

draft cooling towers

shall be provided. The

treated as per

prescribed norms.

shall

be

the

the

**Effluents** 

xiii.

Recirculation type Closed cycle Cooling water system with Natural Draft Cooling Towers has been provided. The blow down is being treated adequately to meet the prescribed norms through High Rate Solid Contact Clarifier (HRSCC), Dual Media Filter (DMF), Ultra Filtration Unit (UF) and RO system and reused in Cooling Tower Makeup, Service Water and HVAC system. The RO reject water is used for Dust Suppression in Coal Handling Plant Areas.

#### TREATED EFFLUENT ANALYSIS For the period of April 2019 – Sept. 2019

Month	pН	SS (ppm)	TDS (ppm)	COD (ppm)	BOD (ppm)	O&G (ppm)	Chlorides (ppm)
April-19	6.24	NIL	12.38	3.22	1.45	NIL	9.02
<b>May-19</b>	6.40	NIL	20.80	2.62	1.18	NIL	15.0
June-19	6.10	NIL	7.80	3.67	1.65	NIL	4.00
July-19	6.33	NIL	10.30	5.14	1.12	NIL	8.60
Aug-19	6.24	NIL	12.00	5.60	2.0	NIL	9.20
Sept-19	6.27	NIL	9.35	6.20	1.9	NIL	9.81

xiv. The treated effluents conforming to prescribed standards

> only shall be recirculated and within reused the plant. There shall be no discharge outside the plant boundary except during

monsoon. Arrangements shall be made that effluents and storm water do not get mixed.

All the effluents are being treated adequately in the ETP. Treated water is being reused within the plant. The concept of "Zero Discharge Condition" implemented.

Separate drainage network established for storm water.

Upstream & downstream water quality of Gopad River is also being monitored.

xv.	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.	_	nin the բ	olant premi TREATED the period	ses for green l SEWAGE AN of April 2019	oelt developm NALYSIS ) – Sept. 2019	
		Month	pН	SS (ppm)	COD (ppm)	BOD (ppm)	O & G (ppm)
		April-19	7.21	12	80	9.8	1.41
		May-19	7.30	18	89	10.2	1.27
		June-19	7.09	28	96	13.2	1.33
		July-19	7.21	20	84	16.6	1.40
		Aug-19	7.18	23	72	19.0	1.20
		Sept-19	7.14	26	66	15.0	1.29
xvii.	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 measures shall be	augment the monsoon sea	harvesti e groun nson.	ing pit with nd water	hin the towns table and to	recharge su	constructed to rface water in which is also with adequate
	provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant lay out shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	Mock drills are being conducted periodically.  Fire hydrant and water jet type sprinklers established in the coal yard.  Reviewed On Site Emergency Plan of Jaypee Nigrie Super Thermal Power Plant was Submitted to The Director, Industrial Health & Safety, Indoorvide OSEP No.RE01121811507294 date 21/01/2019. Approval was granted on 28.01.2019.					
xviii.	Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made in the plant area	_	uid fuel	are made i	in the plant ar		ge facilities fo e obtained fron

in consultation with the Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventually in case of an accident taking place due to storage of oil. Validity of license No. P/HQ/MP/15/2876(P311713) from Deputy Chief Controller of Explosives, Bhopal for Petroleum Class C (LDO & HFO) in bulk installation is up to 31st December 2022.

Onsite Emergency Plan (Disaster Management Plan) has been approved by Director, Industrial Health and Safety, M.P., Indore. This plan covers all type of emergency including storage of oil.

xix. Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers.

Monitoring around the ash pond area shall be carried 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 compared with baseline data so as to ensure that the ground water quality is not adversely affected due to the project.

Eight Piezometer bore wells were laid around the Ash ponds. Regular (Six Monthly) monitoring of heavy metals is being carried out.

S.No.	Location	Arsenic as As in mg/l	Mercury as Hg in mg/l	Chromium as Cr in mg/l	Lead as Pb in mg/l
Plant 9	ne Data in Site (Nigri e) in 2009	< 0.01	< 0.001	< 0.05	< 0.01
1.	Near NDCT	BDL(<0.01)	BDL(<0.001)	BDL(<0.03)	BDL(<0.01)
2.	Near Crusher	BDL(<0.01)	BDL(<0.001)	BDL(<0.03)	BDL(<0.01)
3.	Near STP	BDL(<0.01)	BDL(<0.001)	BDL(<0.03)	BDL(<0.01)
4.	Near SP School	BDL(<0.01)	BDL(<0.001)	BDL(<0.03)	BDL(<0.01)
5.	Near R- II	BDL(<0.01)	BDL(<0.001)	BDL(<0.03)	BDL(<0.01)
6.	Near Gate-3	BDL(<0.01)	BDL(<0.001)	BDL(<0.03)	BDL(<0.01)
7.	Near Awas Gate	BDL(<0.01)	BDL(<0.001)	BDL(<0.03)	BDL(<0.01)
8.	Near Wagon Tippler	BDL(<0.01)	BDL(<0.001)	BDL(<0.03)	BDL(<0.01)

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

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.

	adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with	More than 33% of area in and around Power plant including Cement plant i.e. around 119.77 hectares of green belt has been developed as per guidelines given by CPCB.
	survival rate not less than 70%.	Total number of Plants Planted up to 30.09.2019 is approximately 3.394 lakhs.
		During this period (April, 19 – Sep, 19) total of 0.425 lakhs of Trees have been planted in 16 Ha.
xxi.	sanitation	First Aid and sanitation facility provided for the drivers and contract workers during construction phase.
	arrangements shall be made for the drivers and other contract	Site sanitation and housekeeping is maintained regularly.
	workers during construction phase.	10 beds Hospital at site is equipped with all required facilities for First Aid.
xxii.	Noise levels emanating from turbines shall be so	Complied, the steam turbine (ST) is enclosed in the building and acoustic enclosures are provided to minimize noise from these machines.
	controlled such that the noise in the work zone shall be limited to 75 dBA. For people	All The equipments are provided with acoustic hoods to control noise. The ambient noise level is well below 75 dBA (day time) and 70 dBA (night time) as prescribed under EPA rule, 1986.
	working in the high noise area, requisite personal protective	Ambient noise levels in and around the Plant area are monitored monthly. Noise levels are well under the limit.
	equipment like ear plugs/ear muffs etc shall be provided. Workers engaged in	All safety items like Ear muffs, Helmets, Shoes, Nose filters, spectacles are provided to all the employees and made mandatory. Periodic audiometric check up is being carried out and records are being maintained.
	noisy area such as turbine area, air compressors etc shall be periodically	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 18001:2007 (OHSAS - Occupational Health and Safety Management
	examined to maintain audiometric record and for treatment of	Systems).
	any hearing loss including shifting to non noisy /less noisy areas.	
xxiii.	Regular monitoring of Ground level concentration of SO <sub>2</sub> ,	Baseline monitoring was conducted during EIA. Weekly monitoring (Manual/ Offline) during operational phase is being carried out regularly.
	NOx, RSPM and Hg shall be carried out in	In case of any exceedance, necessary control measures are ensured.
	the impact zone and records maintained. If	Four Continuous Ambient Air Quality Monitoring Stations (Online/ Real Time) are provided along the boundary considering the wind rose/wind

at any stage these levels are found to exceed the prescribed limits, necessary control measures shall provided be immediately. The location the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.

directions and the total data of the CEMS and CAAQMS 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.

Regular monitoring of PM10, PM2.5, SO<sub>2</sub> & NO<sub>x</sub> 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 2019 – Sept. 2019

	PM2.5 PM10 SO2 NOX CO				
	(μg/m3)	(µg/m3)	(μg/m3)	(μg/m3)	(mg/m3)
Minimum	14.4	34.0	3.8	7.7	0.520
Maximum	29.2	59.1	7.1	14.0	0.550
Average	21.9	47.7	5.6	10.3	0.534
	LOCATIO	N : Near H2	Gas cylind	ler shed	
	PM2.5	PM10	SO2	NOX	CO
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
Minimum	17.7	38.5	5.4	7.7	0.530
Maximum	38.8	68.3	8.4	15.8	0.555
Average	27.3	53.2	6.7	10.5	0.544
LOCA	ATION: No	ear Watch to	ower 22 (G1	rinding Un	it)
	PM2.5	PM10	SO2	NOX	CO
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
Minimum	23.0	49.8	5.5	8.7	0.510
Maximum	46.6	73.2	7.7	14.0	0.561
Average	33.8	60.9	6.4	10.7	0.534
	LOCATI	ON : Near f	uel storage	tank	
	PM2.5	PM10	SO2	NOX	CO
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
Minimum	24.1	48.8	5.7	7.9	0.530
	10.6	70.3	7.6	17.2	0.566
Maximum	43.6	70.5	7.0		0.000

xxiv. A good action plan for R & R (if applicable) with package for the affected project persons be submitted and implemented as per prevalent R & R policy within three months from the date

The report has been submitted to MoEF & CC on 20th Jan 2011 vide our letter No. JPVL/JNSTPP/MoEF/2010.

It was subsequently modified incorporating suggestions of MOEF and was resubmitted vide letter no. - JPVL /JNSTPP/MoEF/2011 dated 29.06.2011.

of issue of this letter. An amount of Rs. 24.0 A separate budget earmarked for CSR activities. CSR study report already submitted to the ministry vide letter no. - JPVL/JNSTPP/MOEF/2010 dated crores shall earmarked as one time 20.01.2011 and 29.06.2011. capital cost for CSR programme. For CSR activities capital outlay of more than Rs. 24 crores has been made. Subsequently The company is carrying out CSR activities in the vicinity of the recurring expenditure of Rs. 4.8 Crore per Project as per the directions and guidance of the District annum shall Administration. earmarked as recurring expenditure **CSR** activities. Providing drinking water facility benefitting to the nearby villages Details of the activities (Nigrie, Niwas, katai & Hardi & Mahua Ganv and Chamrach and Joba). to be undertaken shall be submitted within one month along with Unit is also investing on CSR Activities like conducting Medical camps in villages (Nigrie, Niwas, katai & Hardi & Mahua Ganv and Chamrach), road map for Plantation programs (Nigrie, Niwas, katai & Hardi & Mahua Ganv and implementation. Joba), Road development activities (Nigrie), women empowerment and maintenance of Bore wells in nearby villages (Nigrie) & providing furniture/building material to local offices (Primary & Middle School in Nigrie and Higher Secondary School in Niwas, Promotion of Safety/Cultural/ sports in Rural Areas/villages (Nigrie, Niwas) Total expenditure incurred up to September, 2019 is Rs 3.45 Crores. Based on Need Base Assessment Study for development of nearby CSR xxvi. As part programme the villages, an action plan was worked out for income generating projects for up-liftment of poor section of society. company shall conduct need based assessment for The following activities were undertaken: the nearby villages to economic study 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 measures with action plan which can help in session. up liftment of poor section of society. Free Education & Free Mid Day Meals provided to the children of affected village Nigrie & Sardar patel School, Nigrie. Income generating consistent projects Free Health Check Up & Health cards provided to the 328 students. with the traditional skills of the people Roads have been laid down in Nigrie Village & free electricity supply besides development to the Street Lights is provided in R & R Colony. of fodder farm, fruit orchards, bearing Restoration & Refurbishment of water reservoirs & ponds taken place vocational training etc. in nearby villages (Karondia Nallah in Papal Gaon & Saraiha Talab in can form a part of Nigrie Ghat Nirman). programme. such

Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted take up self employment and jobs.

Providing Mobile Hospital & Ambulance Service to affected villages (Nigrie, Niwas, katai & Hardi & Mahua Ganv and Chamrach and Ioba).

An Average of 3645 patients are being benefited every month by the Primary Health Center.

A Dispensary was also setup in R & R colony. An Average of 300 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 about 250 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 on "Trasform Singrauli" in FY 2018 19 is 3.91 Lakhs & in FY 2019 - 20 is 1.20 Lakhs.

#### Swatch Bharath Mission:-

- 1. Provided Dust Bins in 31 Angan Wadi Centres.
- 2. Awareness programmes conducted through posters Swachata Abiyan in Angan Wadi Cenetrs & rural arears.
- 3. 180 Fruit Yielding plants have been planted through Gram Pnachayath in 6 villages.

xxvii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure 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 Labour hutments had been established & developed with all required amenities like toilet, drinking water & infrastructure like internal road etc.

	removed after the	
	completion of the	
	project.	
xxviii.	The project proponent	As mandated, We have informed the public through the local newspapers
	shall advertise in at	announcement 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 <a href="http://envfor.nic.in.">http://envfor.nic.in.</a>
	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 <a href="http://">http://</a>	
	<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	
	mensite of the	

	company by the proponent.	
xxx.	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	We have formed a separate full-fledged Environment Management Cell headed by Vice President, & supported by Dy. General Manager & Asst. Officer and Chemists of laboratory and Technician for implementation and compliance.
xxxi.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emission) shall be displayed as a convenient location near the main gate of the company in the	Complied, We are regularly sending six monthly compliance reports to MOEF & CC Regional Office, CPCB Zonal Office and SPCB every 6 months, 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.
xxxii.	public domain.  The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by email) to the respective	Complied, six monthly compliance reports are regularly submitted to MoEF, CPCB & MPPCB.  The same is also being sent by email.  Last compliance report had submitted on 16th May 2019 for the period of October 2018 - March 2019 vide our letter no: JNSTPP/ EC/ MoEF/2019-20/18 dated May 16th, 2019. It is uploaded on the website of the company.

	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 22nd June 19 for the
	financial year ending	financial year 2018-19 vide letter no. JVPL/EC/ES/2018-19 dated June 22nd,
	31st March in Form-V	2019. 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	
	on meir 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 first of the f
	the implementation of	Display board installed in front of main gate.
	the stipulated	Display board instance in front of main gate.
	conditions. A	Results are being displayed at Main gate of the plant.
	complete set of	Results are being displayed at Maint gate of the plant.
	documents including	
	Environmental Impact	
	Assessment Report	
	and Environment	
	Management Plan along with the	
	additional information	
	submitted from time	
	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. <b>Criteria</b>	
	pollutants levels	
	including NOx (from	
	stack & ambient air)	
	shall be displayed at	
	the main gate of the	
	power plant.	
xxxvi.	_	Complied, Dedicated fund has already been allocated and being utilized
	be allocated for	for Environmental Protection Measures i.e., Low NOx burners,
	implementation of	constructions of 275m stack with CEMS, Noise protection, effluent
	environmental	treatment, sewage treatment, green belt development have been included
	protection measures	in project capital cost & Suppression of fugitive emission, plantation in the
	along with item-wise	periphery of the project area, constant monitoring of the pollution affects
	break-up. These cost	within the project area etc. are being undertaken on regular basis.
<u> </u>		are project area etc. are being undertained our regular busis.

	shall be included as	
	part of the project cost.	Recurring expenditures for the period April 19 to Sep 19 is as below:
	The funds earmarked	Recuiring experientates for the period ripin 15 to 5cp 15 is as below.
	for the environmental	Green Belt Development - Rs 40,60,500/-
	protection measures	Maintenance cost in CHP - Rs 41,57,189/-
	shall not be diverted	Operation cost in ESP - Rs 5,18,64,638/-
	for other purposes and	Operation Cost of ETP - Rs 2,14,32,517/-
	year -wise expenditure	Operation Cost of STP - Rs 11,99,446/-
	should be reported to	110 11/22/110/
	the Ministry.	
xxxvii.	The project authorities	Complied, The project has achieved Financial Closure on <b>07/05/2010</b> .
	shall inform the	1 / 1 /
	Regional Office as well	Unit- I was commissioned on 01/09/2014 & information was sent to
	as the Ministry	MPPCB.
	regarding the date of	
	financial closure and	Unit- II was commissioned on 24/03/2015 & information was sent to
	final approval of the	MPPCB.
	project by the	
	concerned authorities	Cement Grinding Unit was commissioned on 09/10/2014 & information
	and the dates of start	was sent to MPPCB.
	of land development	
	work and	
	commissioning of	
	plant.	
xxxviii.	1	Company has been fully cooperating and extending full support to the
	be extended to the	concerned authorities.
	Scientists/Officers	
	from the Ministry	
	/Regional Office of the	
	Ministry at Bangalore/CPCB/SPCB	
	who would be	
	monitoring the	
	compliance of	
	environmental status.	
	cityiioiiiicittai statas.	