JAYPEE NIGRIE SUPER THERMAL POWER PLANT

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED

JNSTPP/ EC/ MoEF/ 2019-20/18

JAIPRAKASH POWER VENTURES LIMITED

May 16th, 2019

To

Additional Principal Chief Conservator of Forests (C), Ministry of Environment, 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 (Oct 2018 – March 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 Division 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

2. Head Office,
MADHYA PRADESH POLLUTION CONTROL BOARD
Paryawaran Parisar,
E-5, Arera colony,

Bhopal - 462016 MADHYA PRADESH, INDIA

3. Regional Office, Site
M.P. Pollution Control Board,
Sector-2 Plot No 217 Navigovan Vibar Corp. Office.

: Jaypee Nigrie Super Thermal Power Plant, 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

Sector-2, Plot No.217, Navjeevan Vihar, 100 Office: 'JA House', 63 Basant Lok, Vasant Vihar, New Delhi - 110 057 (India)
Singrauli
Ph.: +91 (11) 49828679, 49828642 Fax: +91 (11) 26145389

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



Six Monthly Compliance Report Of

Environmental Clearance Period: October' 2018- March' 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

18th 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 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	Hydro-geological study of the area is being carried out by M/s. Hydro Geo-survey Consultants Pvt. Ltd. Jodhpur, Rajasthan and reports submitted to concerned departments timely.
	to the Ministry and concerned agency in	The last study report was submitted in September 2018.
	the State Govt. In case adverse impact on	Water level from existing peizometer wells being carried out monthly.
	ground water quantity & quality is observed, immediate mitigating steps to contain any	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.

	adverse impact on	1 , 1 ,
	ground water shall be	Water.
	undertaken.	
		Presently, JPVL is drawing water from surface water source (Gopad
		River) within quantity allocated (42 MCM) by DoWR , Madhya Pradesh .
iii.	Minimum required	Being Complied, The Water Resource Department, Government of
	environmental flow	Madhya Pradesh has permitted JPVL to draw 42 MCM of water from
	suggested by the	Gopad River for Thermal Power Project.
	competent authority of	,
	the State Govt. shall be	The Minimum recommended discharge is being released in the River
	maintained in the	during lean period (summer season).
	Channel/Rivers even	during rount porrous (curranter coulcort).
	in lean season. It shall	Natural Drainage in the region is not being disturbed due to the activities
	be ensured that	associated with the operation of the plant.
		associated with the operation of the plant.
	natural drainage in the	The Duringt is not abstraction the flow of Direct County The natural
	region is not disturbed	The Project is not obstructing the flow of River Gopad; The natural
	due to activities	drainage of the region is not being affected.
	associated with	
	operation of the plant.	
iv.	A stack of 275 m	Bi-flue Stack of 275 m height is installed with Online monitoring
	height (Bi-flue) shall	equipments for PM, SO ₂ , NOx & Hg.
	be provided with	
	continuous online	The exit velocity of flue gases is more than 25.0 m/sec as stipulated.
	monitoring	
	equipments for SOx	Mercury measurement is also being done through online analyzers.
	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.	
v.		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	
	Unit shall not exceed	
	50 mg/Nm3.	
vi.	O	Noted, To control fugitive emissions all raw material conveying belts are
	the grinding Unit shall	covered. Cyclones followed by bag filters are provided at all transfer
	be controlled and data	points. Additionally, mobile water sprinklers are deployed in Grinding
	on fugitive emission	Unit area to suppress fugitive dust while movement of vehicles on
	shall be maintained in	haulage roads.
	a log book and duly	
	signed by the Head,	

	Environment on a daily basis.			
vii.	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to	Highly efficient Electro Static Pr % have been installed for each than 50 mg/Nm3.	• '	•
	ensure that particulate emission does not exceed 50 mg/Nm3.	Online Continuous Emission M Emissions for both boiler stacks & CPCB servers, and the results	and data is being tra	ansmitted to MPPCB
		For stack U-I average concentration is 40.11 mg/Nm3 mg/Nm3.		•
		For stack U-II average concentration is 40.64 mg/Nm3 mg/Nm3.		O
viii.	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas	Adequate air pollution control (Cyclone followed by bag filters points, jet sprinkler type dust su type dust suppression system in	s) in coal crusher hor ppression system in c	use and coal transfer coal yard and dry fog
	such as in coal handling and ash handling points, transfer areas and	A) 2 numbers of Dust extraction type with Capacity 46,000 m ³ , (Unit #1 & 2) with Capacity 41,00	1 number of Bag ho	~
	other vulnerable dusty areas shall be provided.	B) Dust Suppression system in Trake unloading at track hopper &		
	provided.	C) Jet sprinkler type Dust Sup Bucket wheel stacker cum reclain	· -	Coal Yard area for
		D) Dry fog dust suppression sys	tem for all transfer po	pints.
		Elaborated dust extraction & incorporated in the design of ash		system have been
		Pone number of Dust extractions Filter type with Capacity 14,890 Filter for each Coarse Ash Surg m3/hr and one bag filter at Mainhave been installed.) m3/hr in each Unit e Hopper (Unit #1 &	, one number of Bag 2) with Capacity 8.6
			Number of Bags	Filtering Area
		Intermediate Silo	108	229 sq. mt
		Coarse Ash Surge Hopper	20	30 sq. mt
		Main Fly Ash Silo	108	279.68 sq. mt
		<u> </u>	<u> </u>	1

ix.	Utilization of 100 % Fly ash generated shall be made from 4th year	100% Fly Ash is being utilized as per MoEF & CC vide Notification Nos No. 763 (E) dated September 14, 1999, vide notification No. 2804 (E) dated November 03, 2009 and S.O.254 (E) dated January 25, 2016 for fly ash
	of operation of the	utilization.
	plant. Status of	
	implementation shall	Status of Implementation is being reported to Authorized Regulatory
	be reported to the	Boards regularly.
	regional Office of the	
	Ministry from time to	
	time.	
X.	Fly Ash shall be	Compliance assured. We have established 2 Intermediate silos with
	collected in dry form	capacity 450 metric tonnes each to collect dry fly ash & a fly ash bin of 400
	and storage facility	metric tonnes capacity for utilization of ash in cement grinding unit and a
	(silos) shall be	storage silo of 20,000 metric tonnes capacity for utilization of dry ash.
	provided. 100% fly ash	
	utilization shall be	100% Fly Ash is being utilized as per MoEF & CC vide Notification Nos
	ensured from 4 th year	No. 763 (E) dated September 14, 1999, vide notification No. 2804 (E) dated
	onwards. Unutilized	November 03, 2009 and S.O.254 (E) dated January 25, 2016 for fly ash
	fly ash shall be	utilization.
	disposed off in the ash	
	pond in the form of	Bottom ash is being disposed off in the ash pond in lean Slurry Disposal
	slurry. Mercury and	mode with ash to water ratio typical 1:3, with recirculation of ash water.
	other heavy metals	
	(As, Hg, Cr, Pb etc.)	Regular monitoring of heavy metals is being carried out Half Yearly.
	will be monitored in	
	the bottom ash as also	
	in the effluents	
	emanating from the	
	existing ash pond. No	
	ash shall be disposed	
vi	off in low lying area. Ash pond shall be	Well designed ash dyke with HDPE lining has been established as per the
XI.	lined with HDP/LDP	guidelines of MoEF, CEA & CPCB. Adequate safety measures were taken
	lining or any other	for any unforeseen incidents.
	suitable impermeable	for any annotescent including.
	media such that no	Adequate safety measures also taken to protect the ash dyke from getting
	leachate takes place at	breached.
	any point of time.	
	Adequate safety	
	measures shall also be	
	implemented to	
	protect the ash dyke	
	from getting breached.	
xii.		Not applicable, as the disposal of bottom ash is not envisaged in any
	Ash (if proposed to be	abandoned mines.
	undertaken) in	
	abandoned mines it	
	shall be ensured that	Bottom ash is being disposed off in the ash dyke situated inside the plant
	the bottom and sides	premises in the form of lean slurry Disposal System.

	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.								
xiii.	•	Recirculation	on type	e Closed	cvcle Co	oling wa	ter syste	m with N	Natural Draft
	system with natural				-	_	-		eing treated
	draft cooling towers	_			-				Solid Contact
	shall be provided. The			-			_	_	on Unit (UF)
	Effluents shall be	,		•		•	•		ce Water and
	treated as per the	_				_		-	ssion in Coal
	prescribed norms.	Handling F			jeer war	or is usec	ini Dusi	. ouppres	Bioir iii Coui
	presented norms.		101111 7 1	icus.					
				TREAT	ED EFFI	LUENT A	ANALYS	is	
			For	r the peri					
			10.	the peri	.04 01 01		io iviuit	-019	
				66	TDC	COD	DOD	01.0	C1.1 . 1
		Month	pН	SS	TDS	COD	BOD	O&G	Chlorides
			•	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		Oct-18	7.34	14.7	1002	42.1	10.2	1.11	276.9
		Nov-18	7.38	18.9	1014	48.6	16.2	1.28	279.5
		Dec-18	7.40	22.3	1022	51.4	11.2	1.20	282.4
		Jan-19	7.38	26.0	1036	55.6	14.9	1.40	290.1
		Feb-19	7.34	27.1	1012	59.2	18.0	1.63	301.0
		Mar-19	7.29	25.7	1001	51.3	17.2	1.52	286.0
xiv.	The treated effluents	All the effl	uents a	re being	treated a	adequate	ly in the	ETP. Tre	ated water is
	conforming to the	being reuse	ed with	nin the pl	ant. The	concept o	of "Zero	Discharg	e Condition"
	prescribed standards	implement	ed.						
	only shall be								
	recirculated and	Separate di	rainage	e network	c establis	hed for s	torm wat	ter.	
	reused within the								
	plant. There shall be	Upstream	& dov	vnstream	water o	quality o	of Gopad	l River i	s also being
	no discharge outside	monitored.							
	the plant boundary								
	except during								
	monsoon.								
	Arrangements shall be								
	Tillangements shan be	1							
	made that effluents								
	•								
	made that effluents								
XV.	made that effluents and storm water do not get mixed.	Sewage Tr	eatmei	nt Plant	has been	n installe	ed and	treated v	vater reused
XV.	made that effluents and storm water do not get mixed.	Sewage Tr suitably wi							

	treated sewage shall be used for raising greenbelt/plantation.				SEWAGE AN of October 2018	NALYSIS 8 - March 2019)
	greenben/plantation.	Month	pН	SS (ppm)	COD (ppm)	BOD (ppm)	O & G (ppm)
		Oct-18	7.35	10.7	48.5	11.3	1.58
		Nov-18	7.30	11.7	52.3	13.6	1.86
		Dec-18	7.25	10.4	48.7	12.0	1.74
		Jan-19	7.31	13.2	52.6	14.5	1.86
		Feb-19	7.36	16.0	59.1	17.0	1.72
		Mar-19	7.40	20.1	66.3	21.5	2.02
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	Approval of Water Board Compliance	f the te , Bhopa Report of harvesti e groui	echnology Il and subn of June, 201 ng pit wit	from Regiona nitted the sam 13. hin the towns	al Director, C e to MoEF alo	sent to obtain dentral Ground and with the EC constructed to rface water in
xvii.	furnished. Adequate safety measures shall be	_		-		•	which is also with adequate
	provided in the plant area to	,		-	tive control mo		
	check/minimize spontaneous fires in coal yard, especially				d periodically. sprinklers est		e coal vard.
	during summer season. Copy of these	-			_		rears) of Jaypee
vuiii	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.	Nigrie Supe Industrial H Approval wa	er Therrealth & as grant	mal Power Safety, In- ed on 20.10	r Plant was dore vide lette 0.2016.	Submitted to er No.3087 da	The Director, ted 17/10/2016.
xviii.	auxiliary liquid fuel such as LDO and HFO/LSHS shall be made in the plant area	auxiliary liq consent obtai	uid fue ined fro	el are mad om Departn	le in the plan	nt area in co ives, Nagpur.	nsultation and Thile procuring
	in consultation with the Department of Explosives, Nagpur.	-	-			-	all not be more

The fuel LDO & HFO properly stored in minimum risk area & as per the Sulphur content in the norms fixed by the Chief Controller of Explosives. Disaster Management liquid fuel will not exceed 0.5%. Disaster Plan has been in place prior to Commissioning of the Project. Mock drills are being conducted periodically. Management Plan shall be prepared to meet any eventually in We have formed a separate full-fledged Fire Brigade in the Project Site case of an accident which is also supporting the requirements in the neighboring villages. taking place due to storage of oil. Validity of license from Deputy Chief Controller of Explosives, Bhopal for Petroleum Class C (LDO & HFO) in bulk installation is up to 31st December 2022. xix. Regular monitoring of Eight Piezometer bore wells were laid around the Ash ponds. Regular (Six ground water level Monthly) monitor of heavy metals is being carried out. shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted the to 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. Green belt consisting Complied with and Green belt development/ plantation is being of 3 tiers of plantations carried out inside the plant premises. An effective green belt is being native developed with local species as per CPCB guidelines, Efforts are species further made to develop more green belt in the plant. A nursery is around plant and at established at site. least 100 m width shall be raised. Wherever 100 m width is not Required Green belt & Green cover being developed continuously. feasible a 50 m width shall be raised and Greenbelt is being developed in a phased manner along the periphery adequate justification of the Power Plant and Grinding Unit. shall be submitted to Ministry. ➤ More than 33% of area in and around Power plant including Cement Tree density shall not less plant i.e. around 119.77 hectares of green belt has been developed as than 2500 per ha with per guidelines given by CPCB.

survival rate not less Total number of Plants Planted up to 31.03.2019 is approximately than 70%. 2.9695 lakhs. ➤ During this Financial Year a total of 0.62 lakhs of Trees have been planted. First Aid and sanitation facility provided for the drivers and contract xxi. Aid and First workers during construction phase. sanitation arrangements shall be made for the drivers Site sanitation and housekeeping is maintained regularly. and other contract during workers 10 beds Hospital at site is equipped with all required facilities for First construction phase. > Complied, the steam turbine (ST) is enclosed in the building and xxii. Noise levels acoustic enclosures are provided to minimize noise from these emanating from turbines shall be so machines. controlled such that the noise in the work ➤ All The equipments are provided with acoustic hoods to control noise. zone shall be limited The ambient noise level is well below 75 dBA (day time) and 70 dBA to 75 dBA. For people (night time) as prescribed under EPA rule, 1986. working in the high noise area, requisite Ambient noise levels in and around the Plant area are monitored personal protective monthly. Noise levels are well under the limit. equipment like ear plugs/ear muffs etc ➤ All safety items like Ear muffs, Helmets, Shoes, Nose filters, spectacles are provided to all the employees and made mandatory. Periodic shall provided. be Workers engaged in audiometric check up is being carried out and records are being noisy area such maintained. turbine area, NOISE LEVELS compressors etc shall For the period of October 2018 - March 2019 be periodically examined to maintain audiometric record Month ST-1 ST-2 **Air Compressor House** and for treatment of **Oct-18** 82.7 84.5 74.5 **Nov-18** 83.2 86.6 71.1 hearing loss any including shifting to Dec-18 81.4 84.0 73.9 non noisy /less noisy Jan-19 84.3 85.7 72.8 82.5 83.7 70.0 areas. Feb-19 Mar-19 82.1 72.2 83.9 NOTE - Spot Noise Levels at 1 meter distance from turbine in db(A) Baseline monitoring was conducted during EIA. Weekly monitoring Regular monitoring of xxiii. (Manual/ Offline) during operational phase is being carried out Ground level concentration of SO₂, 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

at any stage these

levels are found to

exceed the prescribed

Four Continues Ambient Air Quality Monitoring Stations (Online/

connected with MPPCB server at Bhopal & CPCB server at Delhi.

Real Time) are provided along the boundary considering the wind

rose/wind directions and the total data of the CEMS and CAAQMS is

limits, necessary control measures shall be provided immediately. The location the of monitoring stations frequency 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.

- ➤ 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, SO₂ & NO_x 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 October 2018 - March 2019

LOCATION: Near STP - Colony area					
	PM2.5	PM10	SO2	NOX	CO
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
Minimum	22.6	52.8	6.1	7.1	0.6
Maximum	31.1	60.6	7.2	10.1	0.7
Average	26.9	55.9	6.7	8.5	0.6
	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	23.5	51.2	6.4	8.2	0.5
Maximum	32.0	63.7	7.8	12.8	0.6
Average	27.8	57.9	7.1	9.7	0.6
LOCA	ATION: N	ear Watch to	wer 22 (G1	rinding Un	it)
	PM2.5	PM10	SO2	NOX	CO
	(µg/m3)	$(\mu g/m3)$	(µg/m3)	(µg/m3)	(mg/m3)
Minimum	30.1	63.9	7.1	10.0	0.6
Maximum	40.1	71.0	10.1	77.4	0.7
Average	34.9	66.7	8.5	22.9	0.6
	LOCATI	ON : Near f	uel storage	tank	
	PM2.5	PM10	SO2	NOX	CO
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
Minimum	25.0	58.2	6.8	8.5	0.6
Maximum	38.3	68.3	9.7	13.1	0.7
Average	31.5	62.3	7.7	10.0	0.6

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.

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.

An amount of Rs. 24.0 xxv. crores shall be earmarked as one time capital cost for CSR programme. Subsequently recurring expenditure of Rs. 4.8 Crore per shall annum earmarked as recurring expenditure **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.
- ➤ The capital fund of Rs 24 Crores is earmarked for CSR activities and Rs. 4.8 Crores per annum fund kept for recurring expenditure.
- ➤ The company is carrying out CSR activities in the vicinity of the Project as per the directions and guidance of the District Administration.
- ➤ Providing drinking water facility benefitting to the nearby villages (Nigrie, Niwas, katai & Hardi & Mahua Ganv and Chamrach and Joba).
- ➤ Unit is also investing on CSR Activities like conducting Medical camps in villages (Nigrie, Niwas, katai & Hardi & Mahua Ganv and Chamrach), Plantation programs (Nigrie, Niwas, katai & Hardi & Mahua Ganv and 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 March, 2019 is Rs 3.13 Crores.

xxvi.

As part of **CSR** programme the company shall conduct need based assessment for the villages nearby to study economic measures with action plan which can help in up liftment of poor section society. of Income generating consistent projects 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

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 was started functioning 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 328 students.
- ➤ Roads have been laid down in Nigrie Village & free electricity supply to the Street Lights is providing in R & R Colony.
- ➤ Restoration & Refurbishment of water reservoirs & ponds taken place in nearby villages (Karondia Nallah in Papal Gaon & Saraiha Talab in Nigrie Ghat Nirman).

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 Joba).
- 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.

> 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 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 removed after the completion of the project.

Labour hutments had been established & developed with all required amenities like toilet, drinking water & infrastructure like internal road etc. for construction phase only.

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 http://envfor.nic.in.
		website of the Moef at http://envior.htc.ht.
	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	
	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	
	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	Complied, We are regularly sending six monthly compliance reports to
XXXI.	upload the status of compliance of the stipulated EC	MOEF & CC Regional Office, CPCB Zonal Office and SPCB every 6 months, The same has been sent by email also.
	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 near the main gate of	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.
	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 also being sent by email.
	compliance of the	Last association as manufile Jordania (1998) N. (2010 C. d. 1998)
	stipulated EC conditions including	Last compliance report had submitted on 20th Nov'2018 for the period of April' 2018- September' 2018 vide our letter no: JNSTPP/ EC/ MoEF/
	results of monitored	2018-19/17 dated Nov 16th, 2018.
	data (both in hard	2010 17/17 dated 1404 10 / 2010.
	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 statement of each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned state pollution control board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with status of compliance of EC conditions and shall also be sent to the	Compliance assured, Submitted Environmental Statement in Form- V to the State Pollution control Board authorities on 10th Sept'18 for the financial year 2017-18 vide letter no. JVPL/EC/ES/2017-18 dated September 05th, 2018. It is put on the website of the company.
	Regional Offices of the	
	Ministry by e-mail.	
xxxiv.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same	Being complied, six monthly Environmental Clearance compliance status report is regularly submitted to MoEF, CPCB and SPCB. Compliance status updated on Company's website.
	periodically and simultaneously send	

	the same by email to	
	the Regional Office,	
	Ministry of	
	Environment and	
	Forests.	
XXXV.	O	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	
	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.	
xxxvi.	Separate funds shall	➤ Complied, Environmental protection measures i.e., Low NOx burners,
	be allocated for	constructions of 275m stack with CEMS, Noise protection, effluent
	implementation of	treatment, sewage treatment, green belt development have been
	environmental	included in project capital cost & Suppression of fugitive emission,
	protection measures	plantation in the periphery of the project area, constant monitoring of
	along with item-wise	the pollution affects within the project area etc.
	break-up. These cost	
	shall be included as	> Dedicated fund has already been allocated and being utilized for
	part of the project cost.	Environmental Protection measures.
	The funds earmarked	

	for the environmental	➤ Environmental protection during Construction is being complied as
	protection measures	per normal procedure.
	shall not be diverted	
	for other purposes and	Recurring expenditures for the period Oct 18 to March 19 is as below:
	year -wise expenditure	
	should be reported to	Green Belt Development - Rs 22,32,000/-
	the Ministry.	Maintenance cost in CHP - Rs 45,64,664/-
	the Millistry.	, , .
		1 ' ' ' '
		Operation Cost of ETP - Rs 1,77,95,081/-
		Operation Cost of STP - Rs 8,04,345/-
xxxvii.	= -	Complied, The project has achieved Financial Closure on 07/05/2010.
	shall inform the	
	Regional Office as well	
	as the Ministry	
	regarding the date of	
	financial closure and	
	final approval of the	
	project by the	
	concerned authorities	
	and the dates of start	
	of land development	
	work and	
	commissioning of	
	plant.	
xxxviii.	1	Company will cooperate and extend full support to the concerned
	be extended to the	authorities.
	Scientists/Officers	
	from the Ministry	
	/Regional Office of the	
	Ministry at	
	Bangalore/CPCB/SPCB	
	who would be	
	monitoring the	
	compliance of	
	environmental status.	
	environnientai status.	