JAYPEE NIGRIE SUPER THERMAL POWER PLANT

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED JNSTPP/ EC/ MoEF/ 2017-18/16

May 21st, 2018

To MoEF and CC, Headquarters, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi - 110 003 INDIA

Sub: 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 2017 - March 2018) 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:

- 1. Additional Principal Chief Conservator of Forests (C), Regional Office (WZ), Ministry Of Environment, Forest and Climate Change, E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal - 462016
- 2. Central Pollution Control Board, Head Office, Parivesh Bhawan, East Arjun Nagar, Delhi-110032
- 3. Central Pollution Control Board, Regional Directorate, Sahkar Bhawan, Bhadbhada Road, North TT Nagar, Bhopal, Madhya Pradesh 462003
- Madhya Pradesh State Pollution Control Board, Head Office, 4. Paryavaran Parisar, Sector E-5, Arera Colony, Bhopal - 462 016 Madhya Pradesh, India
- 5. M.P. Pollution Control Board, Regional Office, Navjeevan Vihar, Plot No.217, Post: Vindhyanagar, Sector-2, Singrauli

Site

: 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

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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' 2017- March' 2018

Of

M/s Jaiprakash Power Ventures Ltd.

2x660 MW Jaypee Nigrie Super Thermal Power Plant &
2.0 MTPA Jaypee Nigrie Cement Grinding Unit

(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

16th 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 State Govt. In case adverse impact on ground water quantity & quality is observed,	The last study was done in 2017. Water level from existing peizometer wells being carried out four times a year in premonsoon (April), monsoon (August), post-monsoon (November) and winter (January) seasons.
	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

	adverse impact on ground water shall be	nearby villages is also being monitored to know the seasonal fluctuations.
	undertaken.	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 DoWR , Madhya Pradesh .
iii.	environmental flow suggested by the competent authority of the State Govt. shall be maintained in the Channel/Rivers even in lean season. It shall be ensured that natural drainage in the region is not disturbed	Being Complied, The Water Resource Department, Government of Madhya Pradesh has permitted JPVL to draw 42 MCM of water from Gopad River for Thermal Power Project. The above quantity is adequate to meet the plant's requirement including lean season. The Minimum recommended discharge is being released in the River during lean period (summer season). Natural Drainage in the region is not being disturbed due to the activities
	due to activities associated with operation of the plant.	associated with the operation of the plant. The Project is not obstructing the flow of River Gopad; The natural drainage of the region is not being affected.
iv.	A stack of 275 m height (Bi-flue) shall be provided with continuous online monitoring equipments for SOx NOx and PM. Exit velocity of flue gases shall not be less than 25 m/sec. Mercury emissions from stack shall also be monitored on periodic	Bi-flue Stack of 275 m height is installed with Online monitoring equipments for PM, SO ₂ , NOx & Hg. The exit velocity of flue gases is more than 25.0 m/sec as stipulated. Mercury measurement is also being done through online analyzers.
v.	For cement Grinding Unit two stacks of 55 m each with exit velocity not less than 10 m /s shall be installed. Emission from the Grinding Unit shall not exceed 50 mg/Nm3.	Two stacks of 55m each with exit velocity not less than 10 m/s have been installed with Online monitoring equipments for PM in Cement Grinding Unit. 2 nos. of Bag Houses attached to cement mills (Ball & Roll Press Mill) with guaranteed emission level of <30 mg/Nm3 at full load. Each Bag House has 780 & 1188 bags respectively.
vi.	Fugitive emission in the grinding Unit shall be controlled and data on fugitive emission	Noted, 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

	1 11 1			
	shall be maintained in	haulage roads.		
	a log book and duly			
	signed by the Head,			
	Environment on a			
	daily basis.			
vii.	High Efficiency	Highly efficient Electrostatic Pro	ecipitators (ESPs) wi	th efficiency of 99.93
	Electrostatic	% have been installed for each	boiler to meet part	iculate emission less
	Precipitators (ESPs)	than 50 mg/Nm3.		
	shall be installed to			
	ensure that particulate	Continuous Online Emission I	Monitoring meters i	nstalled to Monitor
	emission does not	emissions for both boiler stacks	and data is being tra	ansmitted to MPPCB
	exceed 50 mg/Nm3.	& CPCB Website, and the results	are within the Norm	ns.
		For stack U-I average concentra	ation of PM is 34.23	mg/Nm3, maximum
		concentration is 45.83 mg/Nm3	& the minimum co	oncentration is 24.43
		mg/Nm3.		
		For stack U-II average concentr	ation of PM is 37.65	mg/Nm3, maximum
		concentration is 48.17 mg/Nm3	& the minimum co	oncentration is 27.44
		mg/Nm3.		
viii.	Adequate dust	Adequate air pollution control	measures such as du	ıst extraction system
	extraction system such	(Cyclone followed by bag filters	s) in coal crusher and	coal transfer points,
	as cyclones/bag filters	jet sprinkler type dust suppress	ion system in coal ya	ard and dry fog type
	and water spray	dust suppression system in belt	conveyor have been p	provided.
	system in dusty areas			
	such as in coal	A) 2 numbers of Dust extraction	systems in Crusher	House are Bag house
	handling and ash	type with Capacity 46,000 m ³ ,	1 number of Bag ho	use for each Bunker
	handling points,	(Unit #1 & 2) with Capacity 41,00	00 m^3	
	transfer areas and			
	other vulnerable dusty	B) Dust Suppression system in T	Frack Hopper for all	4 Paddle Feeders, for
	areas shall be	rake unloading at track hopper &	& for Emergency recla	aiming hopper.
	provided.			
		C) Jet sprinkler type Dust Sup	-	Coal Yard area for
		Bucket wheel stacker cum reclair	mer.	
		D) Dry fog dust suppression sys	tem for all transfer po	oints.
			_	_
		Elaborated dust extraction &		system have been
		incorporated in the design of ash	0.1	
		> One number of Dust extr	•	0
		Filter type with Capacity 14,890		_
		Filter for each Coarse Ash Surg		
		m3/hr and one bag filter at Mai	n Fly Ash Silo with c	apacity 20,830 m3/hr
		have been installed.		
			N CD	Dile A
		1. 20	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

ix.		100% Fly Ash is being utilized as per MoEF Notifications, related to fly
	Fly ash generated shall	ash utilization, issued from time to time.
	be made from 4th year	
	of operation of the	Status of Implementation is being reported to Regional Office regularly.
	plant. Status of	
	implementation shall	
	be reported to the	
	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 Fly Ash Notifications 1999 and its
	ensured from 4 th year	subsequent amendments issued by the MoEF & CC.
	onwards. Unutilized	, , , , , , , , , , , , , , , , , , ,
	fly ash shall be	Bottom ash is being disposed off in the ash pond in lean Slurry Disposal
	disposed off in the ash	mode with ash to water ratio typical 1:3, with recirculation of ash water.
	pond in the form of	The de vivil de vide i vide i spred i e, vide i e e e e e e e e e e e e e e e e e
	slurry. Mercury and	Regular monitoring of heavy metals is being carried out periodically.
	other heavy metals	regular memoring or newly memoric coming carried out personnelly.
	(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.	
xi.	1	Well designed ash dyke with HDP lining has been established as per the
	lined with HDP/LDP	guidelines of MoEF, CEA & CPCB. Adequate safety measures were taken
	lining or any other	for any unforeseen incidents.
	suitable impermeable	
	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.	1	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 The up. project proponent shall inform the state Control Pollution Board well in advance before undertaking the activity.

xiii. Closed cycle cooling system with natural draft cooling towers shall be provided. The

treated as per

prescribed norms.

shall

be

the

Effluents

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 in Dust Suppression in Coal Handling Plant Areas.

TREATED EFFLUENT ANALYSIS
For the period of October 2017- March 2018

Month	pН	SS (ppm)	TDS (ppm)	COD (ppm)	BOD (ppm)	O&G (ppm)	Chlorides (ppm)
Oct - 17	7.57	32.6	952	60.1	18.76	1.09	498.0
Nov - 17	7.49	25.1	1055	59.8	16.87	1.13	476.5
Dec - 17	7.56	26.28	1047	55.9	18.23	1.22	390.0
Jan - 18	7.49	24.88	1032	53.59	17.1	1.29	384.0
Feb - 18	7.44	25.33	1053	56.12	19.71	1.38	372.1
March- 18	7.49	21.29	1037	54.1	17.41	1.22	362.4

xiv.

The treated effluents conforming to the prescribed standards only shall be recirculated and reused within 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	_			been installe ses for green b		water reused ent.
	treated sewage shall be used for raising greenbelt/plantation.	TREATED SEWAGE ANALYSIS For the period of October 2017- March 2018					
	1	Month	pН	SS (ppm)	COD (ppm)	BOD (ppm)	O & G (ppm)
		Oct - 17	7.35	7.5	43.1	9.14	2.30
		Nov - 17	7.49	8.8	38.4	8.4	2.14
		Dec - 17	7.53	7.69	36.8	8.4	1.20
		Jan - 18	7.48	8.69	35.40	7.6	1.35
		Feb - 18	7.40	9.12	32.60	8.20	1.29
		March- 18	7.38	8.57	35.10	7.90	1.33
xvi.	Rainwater harvesting should be adopted. Central Groundwater Authority/Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	Approval of Water Board Compliance Rainwater haugment the monsoon sea	f the to , Bhopa Report arvestin e groun	echnology al and subn of June, 201 ng pit with nd water	from Regional nitted the same 13. nin the townshitable and to	d Director, C e to MoEF alo hip area was recharge su	sent to obtain Central Ground ing with the EC constructed to rface water in
xvii.	Adequate safety measures shall be provided in the plant area to check/minimize	supporting t safety measu	the requires to t	uirements i ake preven		oring villages easures.	which is also with adequate
	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.	Fire hydrant Reviewed Or Nigrie Supe Industrial H Approval wa	and wan Site Ear Ther ealth & Grant	mergency imal Powers: Safety, Inceed on 20.10	sprinklers est Plan (after a p r Plant was dore vide lette 0.2016.	ablished in the eriod of two y Submitted to er No.3087 da	rears) of Jaypee The Director, ated 17/10/2016.
xviii.	Storage facilities for auxiliary liquid fuel such as LDO and	auxiliary liq	uid fue	el are mad	•	nt area in co	ge facilities for ensultation and

HFO/LSHS shall be

made in the plant area 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.

Quality of liquid fuel meets the standard stipulated. While procuring LDO/HFO, it is checked that limit of sulphur content shall not be more than 0.5%.

The fuel LDO & HFO properly stored in minimum risk area & as per the norms fixed by the Chief Controller of Explosive. Disaster Management Plan has been in place prior to Commissioning of the Project. Mock drills are being conducted periodically.

We have formed a separate full-fledged Fire Brigade in the Project Site which is also supporting the requirements in the neighboring villages.

License No. P/HQ/MP/15/2877(P311712) dated 14th June 2013 has been obtained from Petroleum and Explosive Safety Organization (PESO), Nagpur for our Petroleum Class C in bulk installation.

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) records maintained and submitted the to Regional Office of this Ministry. The data so obtained should compared with the 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 monitor of heavy metals is being carried out.

of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification

- Complied with and Green belt development/ plantations are 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 being developed in a phased manner along the periphery of the Power Plant and Grinding Unit.

shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 70%.

- More than 33% of area in and around Power plant including Cement plant i.e. around 95 hectares of green belt has been developed as per guidelines given by CPCB.
- ➤ Total number of Plants Planted till date is approximately 2.35 lakhs.

xxi. First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase

First Aid and sanitation facility provided for the drivers and contract workers during construction phase.

Site sanitation and housekeeping is maintained regularly.

10 beds Hospital at site is equipped with all required facilities for First Aid.

and other contract workers during construction phase.

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 plugs/ear muffs

be

Workers engaged in

noisy area such as

compressors etc shall

examined to maintain

and for treatment of

hearing

including shifting to non noisy /less noisy

area.

provided.

periodically

record

loss

shall

turbine

any

areas.

audiometric

- Complied, the steam turbine (ST) is enclosed in the building and acoustic enclosures are provided to minimize noise from these machines.
- All The equipments are provided with acoustic hoods to control noise. The ambient noise level is well below 75 dBA (day time) and 70 dBA (night time) as prescribed under EPA rule, 1986.
- Ambient noise levels in and around the Plant area are monitored regularly by M/s Vardan Enviro lab, Gurgaon. Noise levels are well under the limit.
- ➤ 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.

NOISE LEVELS FOR THE PERIOD OF OCTOBER 2017- MARCH 2018

Month	ST-1	ST-2	Air Compressor House
Oct - 17	86.4	85.7	75.7
Nov - 17	82.8	82.0	78.2
Dec – 17	82.1	82.8	78.4
Jan – 18	82.3	81.0	79.3
Feb – 18	81.9	80.1	79.6
March- 18	81.2	81.5	79.8

NOTE - Spot Noise Levels at 1 meter distance from turbine in db(A)

- xxiii. Regular monitoring of Ground level concentration of SO₂, NO_x, RSPM and Hg shall be carried out in the impact zone and
- Baseline monitoring was conducted during EIA. Weekly monitoring (Manual/ Offline) during operational phase is being carried out regularly.
- ➤ In case of any exceedance, necessary control measures are ensured.

records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall provided be immediately. The location the monitoring stations frequency of and 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.

- Four Continues Ambient Air Quality Monitoring Stations (Online/ Real Time) are provided along the boundary considering the wind rose/wind 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, 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 2017- March 2018

LOCATION : Near STP - Colony area						
	PM2.5	PM10	SO2	NOX	CO	
	(µg/m3)	$(\mu g/m3)$	$(\mu g/m3)$	$(\mu g/m3)$	(mg/m3)	
Minimum	25.80	54.00	6.80	13.70	0.55	
Maximum	34.90	72.10	8.60	20.20	0.77	
Average	30.02	66.48	7.63	16.22	0.63	
]	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	31.40	57.90	6.20	13.40	0.47	
Maximum	35.20	68.40	8.40	18.10	0.58	
Average	33.23	63.95	7.33	15.45	0.52	
LOCA	ATION: N	ear Watch to	wer 22 (G1	inding Un	it)	
	PM2.5	PM10	SO2	NOX	CO	
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)	
Minimum	33.20	70.00	7.90	16.00	0.50	
Maximum	44.10	80.00	10.30	23.80	0.80	
Average	40.62	74.12	8.97	19.85	0.63	
LOCATION : Near fuel storage tank						
	PM2.5	PM10	SO2	NOX	CO	
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)	
Minimum	32.70	64.20	6.90	15.60	0.58	
Maximum	39.40	73.80	10.00	22.00	0.83	
Average	35.27	68.18	8.23	18.67	0.69	

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

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.

	programmes. This will	
	be in addition to	
	vocational training for	
	individuals imparted	
	to take up self	
	employment and jobs.	
xxvii.	Provision shall be	Labor hutments had been established & developed with all required
1 11 1 1	made for the housing	amenities like toilet, drinking water & infrastructure like internal road etc.
	of construction labor	for construction phase only.
	within the site with all	for construction prices only.
	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.	
xxviii.	The project proponent	As mandated, We have informed the public through the local newspapers
1,	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.
	region around the	website of the Modif at http://enviolational.
	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	

	En income 1	
	Environment and	
	Forests at http://xi.arxiv.ing	
	/envfor.nic.in.	
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	We have formed a separate full-fledged Environment Management Cell
	Environment	headed by Sr. President & supported by Add. General Manager, Dy.
	Management Cell with	General Manager, Chief Engg. & Asst. Officer and Chemists of laboratory
	qualified staff shall be	and Technician for implementation and compliance.
	set up for	*
	implementation of the	
	stipulated	
	environmental	
	safeguards.	
xxxi.		Complied, We are regularly sending six monthly compliance reports to
	upload the status of	
	compliance of the	months, The same has been sent by email also.
	stipulated EC	,
	conditions, including	Six monthly Compliance on EC conditions including results of monitoring
	results of monitored	data is being uploaded on company's web site and we have also made
	data on their website	available ambient air quality levels as well as stack emissions from both
	and shall update the	units in Display LED Display in front of the main gate.
	same periodically. It	r - 7
	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,	
	manicry, or wr, Ror Wi,	

xxxii.	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 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 Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied, six monthly compliance reports are regularly submitted to MoEF, CPCB & MPPCB. The same also being sent by email. Last compliance report had submitted in Nov'17 for the period of April' 2017- September' 2017 vide our letter no: JNSTPP/ EC/ MoEF/ 2017-18/15 dated Nov 01st, 2017
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 respective Regional Offices of the Ministry by e-mail.	Compliance assured, Submitted Environmental Statement in Form- V to the State Pollution control Board authorities in the month of Sept'17 for the financial year 2016-17 vide letter no. JVPL/EC/ES/2016-17 dated September 25th, 2017. It is put on the website of the company.

	The market and an arrange	D
xxxiv.	1 / 1 1	Being complied, six monthly Environmental Clearance compliance status
	shall submit six	report is regularly submitted to MoEF, CPCB and SPCB.
	monthly reports on	
	the status of the	Compliance status updated on Company's website.
	implementation of the	
	stipulated	
	environmental	
	safeguards to the	
	Ministry of	
	Environment and	
	Forests, its Regional	
	Office, Central	
	Pollution Control	
	Board and State	
	Pollution Control	
	Board. The project	
	proponent shall	
	upload the status of	
	compliance of the	
	environmental	
	clearance conditions	
	on their website and	
	update the same	
	periodically and	
	simultaneously send	
	the same by email to	
	the Regional Office,	
	Ministry of	
	Environment and	
	Forests.	
xxxv.		Will be complied with, Six monthly Environmental Clearance compliance
XXXV.	O	status report is regularly submitted to MoEF, CPCB and SPCB.
	Ministry of Environment &	status report is regularly subflitted to MoEr, CrCb and SrCb.
	Forests will monitor	Compliance status updated on Company's website.
	the implementation of	
	the stipulated	Display board already installed in front of main gate.
	conditions. A	
	complete set of	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	
	O	
	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
	be allocated for	burners, constructions of 275m stack with CEMS, Noise
	implementation of	protection, effluent treatment, sewage treatment, green belt
	environmental	development have been included in project capital cost &
	protection measures	Suppression of fugitive emission, plantation in the periphery of
	along with item-wise	the project area, constant monitoring of the pollution affects
	break-up. These cost	within the project area etc.
	shall be included as	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	part of the project cost.	Dedicated fund has already been allocated and being utilize for
	The funds earmarked	Environmental Protection measures.
	for the environmental	Environmental i fotection measures.
		Francisco and a material during Construction is being consulted
	protection measures	Environmental protection during Construction is being complied
	shall not be diverted	as per normal procedure.
	for other purposes and	
	year -wise expenditure	Recurring expenditures for the period October 17 to March 18 is as
	should be reported to	below:
	the Ministry.	
		Green Belt Development - Rs 30,12,000 /-
		Maintenance cost in CHP - Rs 37,64,682 / -
		Operation cost in ESP - Rs 5,47,36,044/ -
		Operation Cost of ETP - Rs 99,72,035/-
		Operation Cost of STP - Rs 7,43,909/ -
xxxvii.	The project authorities	Complied, The project has achieved Financial Closure on 07/05/2010.
	shall inform the	1 , 1 ,
	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.	Full cooperation shall	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.	