JAYPEE NIGRIE SUPER THERMAL POWER PLANT

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED INSTPP/ EC/ MoEF/ 2018-19/17

JAIPRAKASH POWER VENTURES LIMITED

Nov 16th, 2018

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

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 (Apr 2018 – Sep 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. 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
 MADHYA PRADESH, INDIA
- Regional Office,
 M.P. Pollution Control Board,
 Sector-2, Plot No.217, Navjeevan
 Singrauli

 Singrauli

 Site

 | Jaypee Nigrie Super Thermal Power Plant, Village & P.C. Nigrie, Tehsil Sarai, Distt. Singrauli (M.P.)
 | Jaypee Nigrie Super Thermal Power Plant, Village & P.C. Nigrie, Tehsil Sarai, Distt. Singrauli (M.P.)
 | Sector-2, Plot No.217, Navjeevan Vihar, Post: Vin Play 17801 | 286021 36 Fax : +91 (7801) | 286020 Email : jpthermal sidhi@jalindia.co.in
 | Corp. Office : 'JA House', 63 Basant Lok, Vasant Vihar, New Delhi 110 057 (India)
 | 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: April' 2018- September' 2018

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

17th 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 Regional Office of the Ministry and the	It was subsequently modified incorporating suggestions of MoEF and was resubmitted vide letter no JPVL/JNSTPP/MOEF/2011 dated 29.06.2011.
	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	The last study report was submitted in September 2018. 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 ground water shall be undertaken.	There is no adverse impact found in the quality & quantity of Ground Water.
	thertaker.	Presently, JPVL is drawing water from surface water source (Gopad River) within quantity allocated (42 MCM) by DoWR , Madhya Pradesh .
iii.	Minimum required environmental flow suggested by the competent authority of	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 State Govt. shall be maintained in the Channel/Rivers even	The above quantity is adequate to meet the plant's requirement including lean season.
	in lean season. It shall be ensured that natural drainage in the	The Minimum recommended discharge is being released in the River during lean period (summer season).
	region is not disturbed due to activities associated with	Natural Drainage in the region is not being disturbed due to the activities associated with the operation of the plant.
	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.	height (Bi-flue) shall be provided with continuous online	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.
	monitoring equipments for SOx NOx and PM. Exit velocity of flue gases shall not be less than 25 m/sec. Mercury emissions from stack	Mercury measurement is also being done through online analyzers.
	shall also be monitored on periodic basis.	
V.	For cement Grinding Unit two stacks of 55 m each with exit velocity not less than 10 m /s shall be	Two stacks of 55m each with exit velocity not less than 10 m/s have been installed with Online monitoring equipments for PM in Cement Grinding Unit. 2 nos. of Bag Houses attached to cement mills (Roll Press & Ball Mill) with guaranteed emission level of <30 mg/Nm3 at full load. Each Bag House has 1188 &780 bags respectively.
	installed. Emission from the Grinding Unit shall not exceed 50 mg/Nm3.	
vi.	the grinding Unit shall be controlled and data on fugitive emission shall be maintained in	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 haulage roads.
1	a log book and duly	

	signed by the Head, Environment on a			
vii.	daily basis. High Efficiency Electrostatic Precipitators (ESPs) shall be installed to	Highly efficient Electrostatic Prows have been installed for each than 50 mg/Nm3.	•	•
	ensure that particulate emission does not exceed 50 mg/Nm3.	Online Continuous Emission MEmissions for both boiler stacks & CPCB Website, and the results	and data is being tra	ansmitted to MPPCB
		For stack U-I average concentration is 43.58 mg/Nm3 mg/Nm3.		-
		For stack U-II average concentr concentration is 37.07 mg/Nm3 mg/Nm3.		-
viii.	Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Adequate air pollution control (Cyclone followed by bag filters jet sprinkler type dust suppress dust suppression system in belt of the A) 2 numbers of Dust extraction type with Capacity 46,000 m³, (Unit #1 & 2) with Capacity 41,00 B) Dust Suppression system in Trake unloading at track hopper & C) Jet sprinkler type Dust Suppression system in Total D) Dry fog dust suppression system in D) Dry fog dust suppres	in coal crusher and ion system in coal yaconveyor have been pure systems in Crusher In 1 number of Bag hours	coal transfer points, and and dry fog type provided. House are Bag house use for each Bunker 4 Paddle Feeders, for aiming hopper. Coal Yard area for points.
		One number of Dust extra Filter type with Capacity 14,890 Filter for each Coarse Ash Surg m3/hr and one bag filter at Mai have 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

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 Notification 1999 and its
	ensured from 4th 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	mode with asit to water ratio typical 1.0, white recirculation of asit water.
	slurry. Mercury and	Regular monitoring of heavy metals is being carried out periodically.
	other heavy metals	regular monitoring of nearly metals is being carried out periodically.
	(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.	Ash pond shall be	Well designed ash dyke with HDPE 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.	For disposal of Bottom	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.	Closed cycle cooling system with natural draft cooling towers shall be provided. The Effluents shall be treated as per the prescribed norms.	Cooling To adequately Clarifier (H and RO sys	to med IRSCC stem ar	has been et the pre), Dual l nd reused he RO re	n provid escribed r Media Fi d in Cool	ed. The norms thi lter (DM ing Tow	blow do rough Hi IF), Ultra er Makeu	own is b gh Rate S Filtrations, Servio	Natural Draft being treated Solid Contact on Unit (UF) ce Water and ssion in Coal
			For				ANALYS Septemb		
		Month	pН	SS (ppm)	TDS (ppm)	COD (ppm)	BOD (ppm)	O&G (ppm)	Chlorides (ppm)
		Apr-18	7.46	19.66	1042	52.96	15.94	1.36	356.10
		May-18	7.51	16.50	1011	50.30	12.70	1.30	327.40
		Jun-18	7.49	14.30	1004	45.30	10.80	1.27	317.20
		Jul-18	7.42	16.80	1014	48.20	12.30	1.39	310.20
		Aug-18	7.45	14.80	1002	42.30	10.50	1.22	301.10
		Sep-18	7.40	16.90	1011	45.60	11.30	1.05	296.80
xiv.	The treated effluents conforming to the prescribed standards only shall be recirculated and	being reuse	ed with ed.	in the pl	ant. The	concept (of "Zero l	Discharg	ated water is e Condition"
	reused within 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.		& dov						s also being
XV.		Sewage Tr suitably wi							vater reused t.

	treated sewage shall			TREATED	SEWAGE AN	IALYSIS	
	be used for raising					September 201	8
	greenbelt/plantation.			<u> </u>			
		Month	пН	SS	COD	BOD	O & G
		Month	pН	(ppm)	(ppm)	(ppm)	(ppm)
		Apr-18	7.42	8.01	33.60	7.20	1.36
		May-18	7.46	9.80	35.60	8.50	1.40
		Jun-18	7.44	9.20	37.10	9.70	1.37
		Jul-18	7.48	9.00	35.20	8.70	1.28
		Aug-18	7.35	8.00	42.10	9.74	1.30
		Sep-18	7.38	9.20	45.30	9.10	1.46
xvi.				_			sent to obtain
	should be adopted.	~ ~					entral Ground
	Central Groundwater		_			e to MoEF alo	ng with the EC
	Authority/Board shall	Compliance	Report	of June, 201	3.		
	be consulted for						_
	finalization of					_	constructed to
	appropriate rainwater	-	-	nd water	table and to	recharge sui	rface water in
	harvesting technology	monsoon sea	ison.				
	within a period of						
	three months from the						
	date of clearance and						
	details shall be furnished.						
Verii		Fire engines	- rurith	roguisito t	oom oro in :	place at cite	rybich is also
xvii.	Adequate safety measures shall be	_		-		•	which is also with adequate
	provided in the plant				rive control me		with adequate
	area to	safety measu	ues to ti	ake prevent	ive control in	easures.	
	check/minimize	Mock drills a	are bein	g conducted	d periodically.		
	spontaneous fires in	1,10 cm cmino c		6 00111111101	a possociation,		
	coal yard, especially	Fire hydrant	and wa	iter jet type	sprinklers est	ablished in the	e coal vard.
	during summer	,). Jr			j
	season. Copy of these	Reviewed On	n Site E	mergency I	Plan (after a p	eriod of two y	ears) of Jaypee
	measures with full				_	-	The Director,
	details along with						ted 17/10/2016.
	location plant lay out	Approval wa		-			
	shall be submitted to						
	the Ministry as well as						
	to the Regional Office						
	of the Ministry.						
xviii.	Storage facilities for	The design	of the	plant meet	ts the require	ements. Storag	ge facilities for
	auxiliary liquid fuel	auxiliary liq	uid fue	el are mad	e in the plan	nt area in co	nsultation and
	such as LDO and	consent obta	ined fro	m Departm	nent of Explos	ives, Nagpur.	
	HFO/LSHS shall be						
	made in the plant area		_			-	hile procuring
	in consultation with		t is che	cked that I	imit of sulphi	ur content sha	ll not be more
	the Department of	than 0.5%.					
	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.

The fuel LDO & HFO properly stored in minimum risk area & as per the norms fixed by the Chief Controller of Explosives. 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.

Validity if license from Deputy Chief Controller of Explosives, Bhopal for our Petroleum Class C (LDO & HFO) in bulk installation is up to 31st December 2022.

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 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.

- Green belt consisting of 3 tiers of plantations native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with
- 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 being developed in a phased manner along the periphery of the Power Plant and Grinding Unit.
- More than 33% of area in and around Power plant including Cement plant i.e. around 95 hectares of green belt has been developed as per guidelines given by CPCB.

survival rate not less than 70%. Total number of Plants Planted till date is approximately 2.85 lakhs. During the First Half of this Financial Year a total of 0.5 lakhs of Trees have been planted. xxi. First Aid and First Aid and sanitation facility provided for the drivers and contract workers during construction phase. sanitation arrangements shall be made for the drivers Site sanitation and housekeeping is maintained regularly. other and contract workers 10 beds Hospital at site is equipped with all required facilities for First during construction phase. xxii. Noise levels Complied, the steam turbine (ST) is enclosed in the building and 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 regularly. Noise levels are well under the limit. equipment like 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 be provided. Workers engaged in audiometric check up is being carried out and records are being noisy area such maintained. turbine area, compressors etc shall **NOISE LEVELS** For the period of April 2018 - September 2018 periodically examined to maintain ST-1 ST-2 audiometric record Month Air Compressor House and for treatment of Apr-18 84.0 86.4 75.1 $70.\bar{2}$ **May-18** 82.8 hearing loss 81.1 any including shifting to Jun-18 83.5 87.6 74.2 non noisy /less noisy **Jul-18** 82.3 81.9 73.4 84.7 82.1 71.5 areas. Aug-18 81.1 84.3 72.6 Sep-18 NOTE - Spot Noise Levels at 1 meter distance from turbine in db(A) xxiii. Regular monitoring of Baseline monitoring was conducted during EIA. Weekly monitoring Ground (Manual/ Offline) during operational phase is being carried out 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 Four Continues Ambient Air Quality Monitoring Stations (Online/ at any stage these Real Time) are provided along the boundary considering the wind rose/wind directions and the total data of the CEMS and CAAQMS is levels are found to

exceed the prescribed

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

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

- 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 April 2018 - September 2018

	T O C A TT	017 17 07			
		ON : Near S'		Ĭ	
	PM2.5	PM10	SO2	NOX	СО
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
Minimum	17.40	46.10	5.10	6.50	0.52
Maximum	26.00	62.80	6.60	11.20	0.54
Average	21.68	54.58	5.62	8.52	0.53
]	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	20.00	48.20	5.10	7.40	0.51
Maximum	29.10	51.70	5.90	11.40	0.54
Average	24.27	54.82	5.53	9.30	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	23.70	56.20	5.40	9.00	0.51
Maximum	37.80	68.50	6.90	15.60	0.56
Average	30.25	62.02	5.98	11.85	0.53
	LOCATI	ON : Near f	uel storage	tank	
	PM2.5	PM10	SO2	NOX	co
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
Minimum	21.6.0	50.10	5.20	7.80	0.52
Maximum	29.50	61.60	6.60	13.80	0.55
Average	25.15	55.93	5.63	10.08	0.53

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.

xxv. An amount of Rs. 24.0 shall crores be earmarked as one time capital cost for CSR programme. Subsequently recurring expenditure of Rs. 4.8 Crore per annum shall earmarked recurring expenditure CSR activities. Details of the activities to be undertaken shall be submitted within one month along with map road 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.
- ➤ Unit is also investing on CSR Activities like conducting Medical camps in villages, Plantation programs, Road development activities, women empowerment and maintenance of Bore wells in nearby villages & providing furniture/building material to local offices, Promotion of Safety/Cultural/ sports in Rural Areas/villages etc...
- > Total expenditure incurred up to September, 2018 is Rs 2.76 Crores.

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.

Annapurna mess is serving the free mid day meal to students.

An ITI institute is being constructed for development of skilled man power in nearby areas of project.

Other CSR activities include Stipend for secondary school students, Paying tribute to Old Age Persons, Vocational Training for students, and Drinking Water facility to local habitants.

xxvi.

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

vocational training for

	: 4:: 41 :1	
	individuals imparted	
	to take up self	
	employment and jobs.	
xxvii.	Provision shall be	Labour hutments had been established & developed with all required
	made for the housing	amenities like toilet, drinking water & infrastructure like internal road etc.
	of construction labour	for construction phase only.
	within the site with all	
	necessary	
	infrastructure and	
	facilities such as fuel	
	for cooking, mobile	
	toilets, mobile STP,	
	safe drinking water,	
	medical health care,	
	· ·	
	crèche etc. The	
	housing may be in the	
	form of temporary	
	structures to be	
	removed after the	
	completion of the	
	project.	
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.
	region around the	
	project, one of which	
	shall be in the	
	vernacular language	
	1	
	seven days from the	
	date of this clearance	
	letter, informing that	
	the project has been	
	accorded	
	environmental	
	clearance and copies	
	of clearance letter are	
	available with the	
	State Pollution Control	
	Board/Committee and	
	may also be seen at	
	Website of the	
	Ministry of	
	Environment and	
	Forests at http://	
	/envfor.nic.in.	
	/CITATOT THE THE	

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xxix.	* *	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.	W 1 (1 (1 (1 1 1 T) (1 (1 1 1 T) (1 1 1 T) (1 1 1 T) (1 1 1 T) (1 1 1 T) (1 1 1 T) (1 1 1 T) (1 1 1 T) (1 1 1 T) (1 T) (1 1 T) (1 T
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.	
2/2/2		Complied We are regularly conding six monthly compliance reports to
xxxi.	The proponent shall	
	upload the status of	MOEF & CC Regional Office, CPCB Zonal Office and SPCB every 6
	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 LED Display in front of the main gate.
	same periodically. It	
	shall simultaneously	
	be sent to the Regional	
	_	
	,	
	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	
	emission) shan be	

	displayed as a	
	convenient location	
	near the main gate of	
	the company in the	
<u></u>	public domain.	
xxxii.	. ,	Complied, six monthly compliance reports are regularly submitted to
	shall also submit six	MoEF, CPCB & MPPCB.
	monthly reports on	
	the status of	The same also being sent by email.
	compliance of the stipulated EC	Last compliance report had exhaulted in May/2019 for the paried of
	*	Last compliance report had submitted in May'2018 for the period of
	conditions including results of monitored	October' 2017- March' 2018 vide our letter no: JNSTPP/ EC/ MoEF/
	data (both in hard	2017-18/16 dated May 21st, 2018.
	copies as well by e-	
	mail) to the respective	
	Regional Office of	
	MoEF, the respective	
	Zonal Office of CPCB	
	and the SPCB.	
xxxiii.		Compliance assured, Submitted Environmental Statement in Form- V to
	statement of each	the State Pollution control Board authorities in the month of Sept'18 for
	financial year ending	the financial year 2017-18 vide letter no. JVPL/EC/ES/2017-18 dated
	31st March in Form-V	September 05 th , 2018. It is put 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	report to regularly submitted to MODI, or ob and or ob.
	the status of the	Compliance status updated on Company's website.
	implementation of the	Compilate status apaated on Company 5 website.
	implementation of the	

stipulated environmental safeguards the to Ministry of Environment and Forests, its Regional Central Office, Pollution Control State **Board** and 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. Regional Office of the Will be complied with, Six monthly Environmental Clearance compliance xxxv. status report is regularly submitted to MoEF, CPCB and SPCB. Ministry of Environment 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. Α 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 time shall be the forwarded to Regional Office for their during use monitoring. **Project** proponent will upload the compliance status in their website

	and up date the	
	and up-date the same from time to time at	
	least six monthly	
	•	
	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	1)
	shall be included as	➤ Dedicated fund has already been allocated and being utilize for
	part of the project cost.	Environmental Protection measures.
	The funds earmarked	Environmental Protection measures.
	for the environmental	➤ Environmental protection during Construction is being complied as
	protection measures	per normal procedure.
	shall not be diverted	per normai procedure.
		D
	for other purposes and	Recurring expenditures for the period April 18 to Sep 18 is as below:
	year -wise expenditure	C P 1 P 1 P 45 10 000 /
	should be reported to	Green Belt Development - Rs 45,12,000 /-
	the Ministry.	Maintenance cost in CHP - Rs 36,70,470 / -
		Operation cost in ESP - Rs 4,82,96,028/ -
		Operation Cost of ETP - Rs 1,64,78,707/-
		Operation Cost of STP - Rs 7,70,972/-
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.	Full cooperation shall	Company will cooperate and extend full support to the concerned
AAAVIII.	be extended to the	authorities.
	Scientists/Officers	dudiorides.
	,	
	/Regional Office of the	

Ministry	7	at
Bangalo	re/CPCB/S	SPCB
who	would	be
monitor	ing	the
complia	nce	of
environi	mental sta	itus.