

Compliance Report for Environmental Clearance Accorded by MOEF to Vidarbha Industries Power Limited (Phase-I)	Vidarbha Industries Power Limited
	MOEF Ref.: J -13011/62/2007-IA.II (T)
	Date of Clearance: 9 th May, 2008 & Amendment dt. 22 nd Dec 2008
	Status as on: 1 st July 17 – 31 st Dec 17
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Sl. No.	EC Conditions	Status
A	Specific Condition	
I	The total land requirement for the project shall be restricted to 255.6 acres.	VIPL had presented the land requirement for the Project as 225 Acres and 80 Acres for the Railway siding. However, during the detailed survey for the Railway siding, it was found that the earlier proposed route was not feasible due to involvement of defence land, forestland and transmission lines passing through the above land. Therefore, an additional land of 180 Acres was needed for circumventing and final approval & Rail traffic clearance was obtained accordingly from Central Railways. Additional 50 Acres of land for the Project and Ash Pond for Phase II was reflected in the Application and presented to the EAC of MoEF during Phase-II (1X300 MW) Environment Clearance. Accordingly, Phase II EC was granted.
II	The R&R for the project affected people including those due to the corridor shall be carried out as per the norms and guidelines of the state Government.	The Govt. of Maharashtra in the notified MIDC area allotted the land for the Project. Therefore, there are no Project affected people. The land acquired for railway siding was mainly private land and there were no houses and habitants. The land was purchased from the landowners on mutually accepted terms and conditions. Incase any R&R is required in future the same shall be addressed as per the R& R policy of Maharashtra Government.
III	Sulphur and Ash content in the coal to be used in the project shall not exceed 0.7 % and 41.6 % respectively.	Complied.
IV	A bi-flue gas of not less than 220 m height with continuous online monitoring equipments for SO _x , NO _x , Mercury and PM shall be provided. Exit velocity of flue gases shall not be less than 20m/sec.	Single plume Stack with 220-M height is provided for 1x300 MW power plant with Continuous online monitoring equipment for monitoring of PM, SO ₂ and NO _x . Exit Velocity is maintained not less than 20 M/Sec at top.
V	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	High Efficiency Electrostatic Precipitators are provided and particulate emission limit of less than 50 mg/Nm ³ is maintained.
VI	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Fly ash shall be used in phased manner as per provision of the notification on fly	3 nos. of Fly ash Storage Silos of 1000 MT each have been provided at site. (Enclosed photographs). The fly ash is collected in dry form and utilized as per the latest notification on Fly Ash utilization

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	ash utilization issued by the Ministry in September, 1999 and its amendment. By the end of 9 th year full fly ash utilization should be ensured. Unutilized fly ash shall be disposed off in the ash pond in the form of High concentration slurry and the bottom ash in conventional slurry mode.	issued by MoEF. The unutilized fly ash is being disposed off in the HCSD form and bottom ash in lean slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) is being monitored in the bottom ash as also in the effluents emanating from the existing ash pond. (Enclosed report for the reporting period.) Ash Utilization report for the FY 2016-17 is enclosed at Annexure-1
VII	Ash pond shall be lined with suitable impermeable lining. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	Ash pond lining is done with black cotton soil as per the recommendations of the leaching study conducted by M/s. Central Institute of Mining & Fuel Research, Dhanbad, Jharkhand. Adequate Safety measures are implemented to protect the ash dyke from breaching..
VIII	Adequate dust extraction system such as cyclones/bag filter 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.	Dust extraction system such as cyclones/ bag filters and water spray system in dusty areas in coal handling and ash handling points, transfer areas and other vulnerable dusty areas are provided. Include a list of BFs at: 1) 3nos of Silo 2) Crusher House and Dust extraction at : 1) Coal Crusher 2) Bunker Floor 3) Tunnel Area. Water spraying points established in various locations of plant at: 1) Initial Spray at before Wagon tippler 2) Conveyor belt 3) Plant Road Side 4) ESP area. 5) Silo area.
IX	Water requirement shall not exceed 25.5 mld. No ground water shall be extracted for any activity of the power project including construction phase of the project.	Water utilization is maintained less than 25.5mld. No ground water extraction was envisaged for the project construction and operation phase. MIDC supplied water was only used during the construction phase of the Project. MIDC Supplied water is being used in Operation phase of the plant.

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X	Closed cycle cooling system with cooling tower shall be provided. COC of 6.0 shall be adopted. The effluent shall be treated to conform to the prescribed norms.	COC of 6.0 is maintained and complied. The effluent is being treated to conform to the prescribed norms.
XI	The treated effluents conforming to the prescribed standard shall be re-circulated and reused with in plant. There shall be no discharge outside plant boundary except during monsoon for storm water. Arrangement shall be made so that effluent and storm water do not get mixed.	There is no discharge outside plant boundary except during monsoon for storm water.. There is no mixing of effluent and storm water. A sewage treatment plant of 40 CMD capacities is provided and the treated sewage is used for greenbelt/ Plantation.
XII	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt / plantation.	A sewage treatment plant of 40 CMD capacities is provided and the treated sewage is used for greenbelt/ Plantation.
XIII	Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and six monthly reports shall be furnished to the Regional Office of this Ministry.	Regular monitoring of ground water in and around the plant area is being done and records are maintained. A map showing the net work of monitoring stations and installation of pizometer are enclosed for your reference. There are 2nosof pizometers are installed. Monitoring around Hg, Cr, As, Pb is being done on regular basis. The analysis report for the reporting period is enclosed as Annexure-6
XIV	The storm water drainage shall be so designed and linked to the surface drainage so as to preserve the natural drainage of the area.	Storm water drainage study report has been prepared by CWPRS, Pune. Accordingly, various drainage through plant has been channelized as per the recommendations of CWPRS report and complied; hence the natural drainage in the area is not disturbed due to activities associated with operation of plant.
XV	Rainwater harvesting shall 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.	Detailed Rainwater harvesting study has been conducted and a report on the same has been submitted to CGWA. CGWA has given acceptance to the same vide letter no. CGWA/CR/GW/-Abs/Ind/2008/3989 dated 02/12/2008 and also submitted to MoEF in July 2009. Admin building terrace is the catchment area as per the rainwater harvesting scheme and implemented accordingly.

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XVI	Green belt of adequate width and density shall be developed around the plant periphery covering about 66 acres of project area preferably with local species.	<p>VIPL has identified a total of 90 acres of land for developing greenbelt as per MoEF guidelines in phase I & II and accordingly plantation has already been developed in 88 Acres of land and remaining 4 Acres of green belt will be developed during this monsoon and the total requirement will be Complied.</p> <p>Till date 264777 numbers of different varieties of plants are planted over an area of 88 Acres. Additional 25000 nos tree planted at Railway siding. The survival rate for the plantation is more than 90%.</p> <p>The plantation map is enclosed as Annexure -2</p>
XVII	Leq of Noise levels emanating from turbines shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.	<p>Engg. Control measures are taken to limit the noise level. Also, Earplugs and Ear muffs are provided to all the people working in high noise areas. Workers engaged in noisy areas like TG, Compressors are periodically examined and the records of the same are maintained.</p> <p>The work place noise monitoring is carried out and results observed to be well within the stipulated limit. The monitoring reports are enclosed as Annexure-6</p>
XVIII	A plan for conservation of Scheduled fauna reported in the study area shall be prepared in consultation with State Forest and Wildlife Department within 3 month and shall be implemented effectively. Necessary allocation of funds for the same shall be made and included in the project cost.	<p>The Plant lies inside notified MIDC Industrial Area of Government of Maharashtra.</p> <p>Wildlife Conservation Plan already Submitted to CCF(WL) in compliance to Point No. XVIII of EC Clearance conditions and waiting for approval of PCCF.</p> <p>Necessary allocations of funds have been made in the Plan.</p>
XIX	Regular monitoring of ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations	Regular monitoring of the ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ , Hg, Pb and CO is being carried out and records are maintained. The location of the monitoring stations and frequency of monitoring was decided in consultation with MPCB. CAAQMS were installed at three locations as suggested by MPCB. CEMS system with opacity meters was also provided for

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	and frequency of monitoring shall be decided in consultation with SPCB. There should be one monitoring station in the pre-dominant downwind direction at a distance of about 2.5km where the maximum ground level concentration due to emission from stack is likely to occur. Six monthly reports shall be submitted to Regional Office of this Ministry at Bhopal/SPCB/CPCB.	continuous monitoring of stack emission and connected to CPCB server. Six monthly reports are being submitted regularly to MoEF, MPCB and CPCB. Refer Annexure-6
XX	Appropriate safeguard measure shall be taken to guard against fire hazards in coal storage area. DMP shall be prepared to handle such situation.	All Fire Safety precautions are taken at the Coal storage areas. The fire safety measures taken at coal yard are enclosed as photograph. DMP is prepared identifying the hazards, Safety precautions, Periodical Mock drills and action plans for Risk Management and is in place. Annexure-7
XXI	Storage facilities for auxiliary liquid fuel such as LDO and/HFO/LSHS shall be made in the plant area where risk is minimum to the storage facility. Adequate arrangement for risk management shall be made in the Disaster Management Plan for the same. Mock drills shall be conducted regularly as planned.	LDO and HFO storage tanks had been installed with all required fire detection and protection system. License for the storage area has been granted by PESO, vide License No: P/HQ/MH/15/6068 (P250859), dt 18/01/2013. DMP is prepared identifying the hazards, Safety precautions, Periodical Mock drills and action plans for Risk Management and is in place.
XXII	The project proponent shall advertise in at least two local newspaper widely circulated in the region around the project, one of which shall be in the vernacular language of the locally 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 also be seen at Website of the Ministry of Environment and forest at http://envfor.nic.in .	Complied and intimated to MoEF vide letter No. VIPL/NGP/MoEF/08/42 dt. October 22, 2008. The clearance letter has been uploaded on the link: http://www.reliancepower.co.in/pdf/Phase_I_EC_Butibori_May_09_2008.pdf
XXIII	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated	Environment Management Department with qualified and adequate staff has been set up for implementation of the Environment Management Plan.

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	environmental safeguards.	Enclosed EMD organization Chart as Annexure-6																														
XXIV	Half yearly reports on the status of the implementation of the stipulated environmental safeguards to this Ministry/RO/CPCB/SPCB.	Half-yearly compliance reports are regularly submitted to MoEF, MPCB and CPCB. The last Half yearly report was submitted on dated 12.07.2017 for the period of 1 st January 2017 – 31 st June 2017																														
XXV	Regional Office of the Ministry of Environment & Forests shall monitor the implementation of the stipulated conditions. A 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.	Complied																														
XXVI	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry	Item-wise break up of Expenditure incurred for Environmental protection measures for Phase I and II during the Financial year 2016-17: <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Description</th> <th>Amount incurred in (Lakhs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Housekeeping Expenses</td> <td>46.46</td> </tr> <tr> <td>2</td> <td>Maintenance expenses for CAAQMS & CEMS</td> <td>3.70</td> </tr> <tr> <td>3</td> <td>AMC for Environmental Monitoring</td> <td>11.30</td> </tr> <tr> <td>4</td> <td>Expenses on Tree Plantation</td> <td>48.17</td> </tr> <tr> <td>5</td> <td>O&M of STP and ETP</td> <td>15.60</td> </tr> <tr> <td>6</td> <td>CSR Expenses for FY Yr 16-17</td> <td>312.97</td> </tr> <tr> <td>7</td> <td>Expenses for Ash Utilization</td> <td>298.50</td> </tr> <tr> <td>8</td> <td>CTO Expenses</td> <td>466.03</td> </tr> <tr> <td></td> <td>Total expenditure Rs</td> <td>1202.73</td> </tr> </tbody> </table>	Sr. No	Description	Amount incurred in (Lakhs)	1	Housekeeping Expenses	46.46	2	Maintenance expenses for CAAQMS & CEMS	3.70	3	AMC for Environmental Monitoring	11.30	4	Expenses on Tree Plantation	48.17	5	O&M of STP and ETP	15.60	6	CSR Expenses for FY Yr 16-17	312.97	7	Expenses for Ash Utilization	298.50	8	CTO Expenses	466.03		Total expenditure Rs	1202.73
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XXVII	The project authorities 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	VIPL has achieved the Financial closure on July 24, 2009 and lead Banker is Axis Bank. The same has been informed to MoEF with our submission of 3 rd Six monthly compliance report dated December 17, 2009.																														

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	commissioning of plant.	
XXVIII	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bhopal I CPCI SPCS who would be monitoring the compliance of environmental status.	Noted for compliance.