

2X300 MW (PHASE-I), THERMAL POWER PROJECT AT HALDIA
ENVIRONMENTAL CLEARANCE: LETTER NO. J-13011/23/2008-IA.II(T), DATED 01.10.2008 AND 18.01.2010

STATUS OF COMPLIANCE REPORT FOR THE PERIOD OF OCTOBER, 2012 – MARCH, 2013
ANNEXURE-I

Sl. No.	Points	Compliance Report
1	It shall be ensured that the Thermal Power Project activities are outside CRZ except those activities, which are specially permitted under the CRZ Notification, 1991. Separate prior clearance under the provisions of CRZ Notification, 1991 shall be obtained for such permitted activities before starting any work.	<ul style="list-style-type: none"> • Project activities fall outside the CRZ boundary. • CRZ clearance obtained, from WBSCZMA. • Compliance informed to MoEF Govt. of India
2	It shall be ensured that the dredged material to be used for filling / leveling of the site does not contain any heavy metals.	<ul style="list-style-type: none"> • Major Filling Work not commenced yet – condition as appropriate being Complied.
3	No additional land in excess of 375.78 acres shall be acquired for any activity / facility of this project.	<ul style="list-style-type: none"> • Complied.
4	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.4% and 42% respectively at any given time.	<ul style="list-style-type: none"> • Linkage obtained from MCL.
5	A bi-flue stack of 275m height shall be provided with continuous online monitoring equipments for Sox, Nox and particulate. Exit velocity of flue gases shall not be less than 22m/sec.	<ul style="list-style-type: none"> • Incorporated in the Technical Specification.
6	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50mg/Nm ³ .	<ul style="list-style-type: none"> • Incorporated in the Technical Specifications.

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7	Space provision shall be kept for retrofitting of FGD, if required at a later date.	<ul style="list-style-type: none"> • Complied
8	Adequate dust extraction system such as cyclones / bag filters and water spray system in dusty areas such as in coal handling and ash handling areas, transfer points and other vulnerable dusty areas shall be provided.	<ul style="list-style-type: none"> • Incorporated in the Technical Specification.
9	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Fly ash utilization shall be ensured to the maximum from day one.	<ul style="list-style-type: none"> • Incorporated in the Technical Specification. • To be Complied with, during Operational Stage.
10	There shall be no ash pond as part of the project. However for emergency disposal of ash, it may be in the form of ash mound through HCSD system.	<ul style="list-style-type: none"> • Will be Complied with.
11	Closed cycle cooling system with cooling towers shall be provided. COC of at least 2.5 shall be adopted and the effluents shall be treated as per the prescribed norms.	<ul style="list-style-type: none"> • Incorporated in the Technical Specification.
12	The cooling towers blow down to be discharged into the river Hooghly shall be from the cold water side and at ambient temperature and conforming to the prescribed standards.	<ul style="list-style-type: none"> • Incorporated in the Technical Specification.
13	Regular monitoring of the effluents at the discharge point shall be carried out which should among other parameters should also monitor salinity of the discharge water.	<ul style="list-style-type: none"> • Will be Complied with.
14	A sewage treatment plant shall be provided and the treated sewage shall be used for raising of greenbelt / plantation.	<ul style="list-style-type: none"> • Will be Complied with.

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15	Rainwater harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for Finalisation of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	<ul style="list-style-type: none"> • Scheme for Rain Water Harvesting prepared and vetted by Central Ground Water Board, Govt. of India and will be implemented during operation stage. • Copy forwarded to MoEF Eastern Regional Office.
16	Adequate safety measures shall be provided in the plant area to check / minimize spontaneous fires in coal yard especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry at Bhubaneswar.	<ul style="list-style-type: none"> • Incorporated in the Technical Specification. • Will be complied with in due course.
17	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 facilities. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same modification required, if any shall be incorporated in the DMP. Sulphur content in the liquid fuel will not exceed 0.5%.	<ul style="list-style-type: none"> • Incorporated in the Technical Specification. • Will be Complied in due course.
18	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.	<ul style="list-style-type: none"> • Will be Complied with during Operation Stage. • Periodic Ground water Monitoring arranged in proposed emergency ash storage area for record.
19	A green belt of adequate width and density shall be developed around the plant periphery covering 106 acres of area preferably with local species.	<ul style="list-style-type: none"> • Phase wise implementation has already been initiated in selected areas from Construction Stage.

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20	Besides R&R, social welfare measures for the local population should be undertaken as part of corporate social responsibility. Details in this regard shall be worked out and submitted to the Ministry within three months.	<ul style="list-style-type: none"> • CSR Plan, submitted to MoEF Govt. Of India on 16.08.2008. • Copy forwarded to MoEF Eastern Regional Office. • Work, as per above plan has been taken up at site.
21	First aid and sanitation arrangement shall be made for the drivers and other contract workers during construction phase.	<ul style="list-style-type: none"> • Complied
22	Noise level 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.	<ul style="list-style-type: none"> • Incorporated in the Technical Specification. • All precautions and protective measures taken during Construction Stage. • Periodic monitoring during construction phase initiated.
23	The project proponent shall upload the status of compliance of the conditions stipulated in the environmental clearance issued vide this Ministry's letter of even no dated 01.10.2008 issued to M/s CESC Limited shall be uploaded in your website and updated periodically and also simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	<ul style="list-style-type: none"> • Uploaded on following URL:http://www.haldiaenergy.co.in
24	Criteria pollutants levels including Nox, RSPM (PM ₁₀ & PM _{2.5}), SO _x (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at the main gate of the power plant.	<ul style="list-style-type: none"> • Will be Complied with during Operational Stage.

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25	<p>Regular monitoring of ground level concentration of SO₂, NO_x, SPM and RSPM 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.</p> <p>The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry.</p>	<ul style="list-style-type: none"> • Will be Complied with during Operation Stage. <p>However, as advised by ERO, MoEF, monitoring initiated during Construction Stage to record base data. Monitoring of PM₁₀ & PM_{2.5} is also being taken up.</p>
26	<p>Provision shall be made for the housing of construction labour 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.</p>	<ul style="list-style-type: none"> • Being complied.
27	<p>The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in</p>	<ul style="list-style-type: none"> • Complied
28	<p>A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.</p>	<ul style="list-style-type: none"> • Separate EMP Cell formed for implementation of the stipulated environmental safeguard.
29	<p>Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry / Regional Office / CPCB/SPCB.</p>	<ul style="list-style-type: none"> • Complied

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30	Regional Office of the Ministry of Environment & Forests located at Bhubaneswar will monitor the implementation of the stipulated conditions. A complete set of document including Environment 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.	<ul style="list-style-type: none"> • Complied.
31	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.	<ul style="list-style-type: none"> • Separate fund for implementation of environmental protection has been considered in the Project Cost. • Will be complied with.
32	The project authority 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.	<ul style="list-style-type: none"> • Financial Closure achieved. • Final approval for the investment proposal of the project from WBERC obtained. • NTP (Zero Date) is 17th Nov, 2011.
33	Full co-operation shall be extended to the Scientists / Officers from the Ministry / Regional Office of the Ministry at Bhubaneswar / the CPCB / the SPCB who would be monitoring the compliance of environmental status.	<ul style="list-style-type: none"> • Will be Complied with.