COMPLIANCE TO CONDITIONS OF MOEF CLEARENCE FOR 2x60 MW POWER PROJECT

SI.No.	CONDITION	COMPLIANCE STATUS
I)	The total land requirement for the project shall be restricted to 60.00 acres.	60 acres land ,belonging to UPL is already available. The relevant document has been sent to SPCB under the cover of letter no. SVP(O)/SPCB/07 Dt.30.08.07 as required while applying for NOC.
	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.4 % and 50% respectively.	Use of coal with sulfhur & ash content limited to 0.4% & 50% respectively, has been considered for design of boiler and will be ensured during operation.
iii)	Two stacks of 48 m height each have been proposed. Continuous on line monitoring equipments for SOx, NOx and Particulate will be provided. Exit velocity of flue gases shall not be less than 15 m/sec. Possibility of having a bi-flue stack may be explored and the stack height may be finalized in consultation with CPCB/SPCB.	been fitted to each stack. Exit velocity of flue gas, more than 15m/sec, has been considered in equipment designing and will be ensured
i∨)	High efficiency Electrostatic Precipitator (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	Installation of High efficiency Electrostatic Precipitator (ESPs) have been completed. It will be ensured during operation that particulate emission will not exceed 50 mg/Nm ³ .
	CFBC boiler with lime injection with efficiency of sulphur removal upto 90% shall be provided.	Lime handling system has been deployed with injection system with sulphur removal upto 90%.
vi)	Dry low Nox burners shall be provided.	The CFBC boilers do not envisage any coal burners. Due to the state of the art technology the furnace temp is maintained low and hence the NO_x emission is very low.
	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.	provided at coal and ash handling system. Also water spray/sprinkling
	Fly ash shall be collected in dry form and its 100 % utilization shall be achieved from day one.	Dry dense phase pneumatic ash handling system and ash silo have been deployed and 100% ash utilisation will be ensured.
	No ash Dyke shall be created as part of this project; however, an area not exceeding one acre shall be earmarked for ash handling.	Dry ash handling system with ash silo has been installed. Hence no ash dyke will be created.
x)	Closed cycle cooling system with cooling towers shall be provided. The effluent shall be treated as per the prescribed norms.	Closed cycle cooling system with cooling towers have been installed The effluent will be treated as per the prescribed norm during operation of the plant.

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xi)	The treated effluents conforming to the prescribed standards shall be re- circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon for storm water. Arrangements shall be made that effluents and storm water do not get mixed.	conforming to prescribed standard will be re-circulated inside plant during plant operation.
xii)	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.	The sewage water is soaked through soak pit
xiii)	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.	
xiv)	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of the 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.	fire hydrant points surrounding the coal yard has been deployed. Drawing no. SGC-BEV-IMF-0103 showing all detail has been
xv)	Regular monitoring of ground water in and around the plant area shall be carried out, records maintained and periodic reports shall be furnished to the Regional Office of this Ministry.	
xvi)	A green belt of adequate width and density shall be developed around the plant periphery covering about 1/3 rd of the project area preferably with local species.	
xvii)	First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	One safety center along with first aid facility and one ambulance has been provided. First aid boxes have been provided at all major work places. Separate toilets for ladies and gents have been provided.
xviii)	Leq of Noise levels emanating from gas and steam 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 steam & gas turbines, 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.	have been provided to reduce the noise level. In addition to the above PPEs had been provided to the individuals. Periodic medical examination for individuals will be conducted.

SI.No.	CONDITION	COMPLIANCE STATUS
xix)	Regular monitoring of ground level concentration of SO ₂ , NOx, 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. 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	in the impact zone. Records will be maintained and report will be submitted after commissioning of the plant.
xx)	The project proponent shall advertise at least two local news papers widely circulated in the region around the project, one of them shall be invernacular language of the locality concerned and within seven days of 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 the website of the Ministry of Environment & Forests ar http://envfor.nic.in.	31.05.08 f
xxi)	A separate environment management cell with qualified staff shall be se up for implementation of the stipulated environmental safeguards.	Provision has been made for a separate environment management cell with qualified staff to implement of the environmental safeguards and will be ensured during commissioning of 2x60MW project.
xxii)	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.	
xxiii)	Regional Office of the Ministry of Environment & Forests located at Bhubaneswar will monitor the implementation of the stipulated conditions. A complete set of documents including Environmenta 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.	
xxiv)	Separate funds shall be allocated for implementation of environmenta 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.	UPL/ENV/08/143 dt 12.4.2008 addressed to your good office and will be ensured not divert this for other purposes.

SI.No.	CONDITION	COMPLIANCE STATUS
xxv)	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 commissioning of plant.	contract for supply of equipment along with erection and
xxvi)	Full cooperation 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.	
xxvii)	The project proponent shall submit six monthly reports on status of implementation of the stipulated environmental safeguards to the MoEF, its regional office, Central Pollution Control Board & State Pollution Control Board. The porject porponent shall upload the status of compliance of EC conditions on their website and update the same periodically and simultaneously send the same by e-mail to MoEF.	
xxviii)	The project proponent will upload the compliance status in their web site and update the same from time to time at least six monthly basis. Criteria pollutants levels such as SOx, NOx, SPM, RSPM (from stack & ambient air) shall be uploaded on their web site and also be deployed at the main gate of Power Plant.	Display of the said parameters at main gate have been made.