

Six Monthly Compliance status of Environment Clearance for 1x43 MW Thermal Power Plant at Village Lumshnong, Meghalaya – July to December 2013

Ref.: Environmental Clearance no. J-13012/33/2011-IA.II (T) Dated: 3rd June, 2011.

Point wise six monthly compliance status of the Specific and General Conditions stipulated in the Environmental Clearance issued to 1x43 MW (TPP) Meghalaya Power Limited are as under:

SL No.	Conditions	Compliance Status
A. SPECIFIC CONDITIONS		
i)	In case source of fuel supply is to be changed at a later stage (now proposed on imported coal from Indonesia) the project proponent shall intimate the Ministry will in advance along with necessary requisite documents for its concurrence for allowing the change. In such a case the necessity for re-conducting public hearing may be decided by the Ministry in consultation with the Expert Appraisal Committee.	Complied with
ii)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emissions do not exceed 50 mg/Nm ³ 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.	We have installed high efficiency ESPs and the stipulation has been complied with.
iii)	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.9% and 25% respectively at any given time. In case of variation of coal quality at any point of time. In case of variation of coal quality at any point of time fresh reference shall be made to MoEF for suitable amendments to environmental clearance condition wherever necessary.	Complied with
iv)	Stacks of 110m shall be installed and provided with continuous velocity of flue gases shall not be less than 22 m/sec. Mercury emissions form stack may also monitored on periodic basis.	Complied with.
v)	The company shall undertake measures for rain harvesting to harvest the water from the built up and open area within the plant premises to recharge the ground water and to minimize the fresh water consumption.	We are collecting rain water of plant in a big reservoir and use same water in plant during lean season.
vi)	Hydro-geological status (quality and quantity) of ground water shall be reviewed annually from and institute/ organization of repute to assess impact of	Hydro-geological status (quality and quantity) of ground water has been reviewed annually from institute/

	surface water and ground regime (especially around ash dyke). In case and deterioration is observed specific mitigation measures shall be undertaken and reports/ data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	organization of reputed to assess impact of surface water and ground regime (especially around ash dyke) and found in order.
vii)	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within three months.	Surface water from nearby nalla has been used and during lean season, harvested water from reservoir has been used.
viii)	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up/ operation of the power plant.	We have not disturbed any water body due to activities associated with the setting up/operation of the power plant.
ix)	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed. A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/ plantation.	All the treated effluents are re-circulated / re-used for industrial cooling and processing and the left over is used in green belt development and road dust suppression within the plant area. No waste water is discharged outside the plant premises. Sewage Plant has been installed and it is in operation and all treated water of STP also used in plantation.
x)	Additional soil for levelling for the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Addition soil has been used in land filling of project site and natural drain has not been affected during installation of plant.
xi)	Utilization of 100% Fly Ash generated shall be made preferably from 4 th year of commissioning of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	All Fly ash generated from power plant shall be used in nearby Cement plant of Group company
xii)	Fly Ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of the slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanation from the existing ash pond. No ash shall be disposed off in low lying area.	Silos for fly ash provided but ash pond for fly ash is not required as all Fly ash generated from power plant is being used in nearby Cement plant of Group company
xiii)	Ash pond (if any) shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	Ash pond is not required as all fly ash generated from power plant shall be used in nearby Cement plant of Group company as mentioned above
xiv)	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 30m width shall be raised. Tree density shall not less than 2500 per ha with survival rate not less than 80%.	Around 5300 trees are planted in 4 hectare land and balance shall be planted in next rainy season.
xv)	The project proponent shall also adequately	Dedicated arrangement provided to

	contribute in the development of the neighbouring villages. Special package with implementation schedule for providing fluoride free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	supply Fluoride free water in nearby villages.
xvi)	An amount of Rs. 0.74 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs. 0.15 Crores per annum till the operation of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	An amount of Rs 0.74 Crores incurred towards socio-economic/eco-development activities in the nearby area like construction of road, drain and school building, Equipments 7 building for computer training, installation of water tank and water coolers, equipments for supply of Fluoride free water, installation of DG set for electricity supply etc.
xvii)	While identifying CSR activities it shall be ensured that need based assessment for the nearby villages within study area shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. As part of CSR vocational training programme for possible self-employment and jobs shall be imparted to identify villagers free of cost.	Vocational training program for possible self-employment and jobs for villagers and training has been started.
B. GENERAL CONDITION		
i)	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.	Complied with
ii)	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/ LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Complied with
iii)	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 out particularly for heavy metals (Hg, Cr, As,pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Complied with
iv)	Monitoring surface water quantity and quality shall also be regularly conducted and records maintained.	The stipulations has been complied with. All the mentioned provisions

	The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy; metals in ground water shall be undertaken.	are considered and presented in the EIA/EMP report for implementation.
v)	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied with
vi)	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 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.	The company has provided Personal Protective Equipments (PPEs) like Safety helmet, Safety Shoes, Ear Plug, Ear Muff and safety goggles, those employees working in noisy areas. Noise monitoring report is sent to concerned department time to time.
vii)	Regular monitoring of ambient air 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 and frequency 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.	The status of compliance of the stipulated environment clearance conditions will be uploaded in company's website. Monitored data is submitted periodically to the concerned departments.
viii)	Provision shall be made for the housing of construction labour (as applicable) 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.	MPL has provided housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, toilets, safe drinking water, medical health care, crèche etc. The housing is in the form of temporary structures to be removed after the completion of the project.
ix)	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 accord 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 .	Complied with.

x)	A copy of the clearance letter shall be sent by the proponent to concerned panchayat, Zila Parisad / 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.	Complied with.
xi)	An Environment cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the cell shall directly report to the head of the organization.	MPL has set up a separate environment management cell with full-fledged laboratory facilities to carry out various management and monitoring functions under the control of senior executive.
xii)	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM (PM2.5 & PM10), SO2, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	The status of compliance of the stipulated environment clearance conditions will be uploaded in company's website and results of monitored data is uploaded in company website. Monitored data is submitted periodically to the concerned departments.
xiii)	The environment statement for each financial year ending 31 st 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 the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Complied with
xiv)	The project proponent shall submit six monthly reports on the status of the 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 environment of the environmental clearance conditions of their website and update the same periodically and the simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	Complied with
xv)	Regional Office of the Ministry of Environment & Forest will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental impact Assessment Report and Environment Management plan along with the	Complied with

	additional information submitted from time to time shall be forwarded to the Regional Office for their use during 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 sack & ambient air) shall be displayed at the main gate of the power plant.	
xvi)	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.	Complied with
xvii)	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.	Date of Financial closure for the project and regarding commencement of development work has been informed.
xviii)	Full cooperation shall be extended to the Scientists /Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB / SPCB who would be monitoring the compliance of environmental status.	Noted & implemented

Any other conditions or alteration in the conditions issued by MoEF is being implemented by MPL in a time bound manner.

Thanking you,

Yours truly,

For Meghalaya Power Ltd. (1x43 MW)

Authorised Signatory

- Cc: 1. The Member Secretary
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