

**Six Monthly Compliance status of Environment Clearance for 8 MW Thermal Power Plant at Village Lumshnong, Meghalaya – July to December 2013**

**Ref.: Environmental Clearance no. SEIAA/PROJECT-4/2007/23 Dated Shillong, 20<sup>th</sup> Aug 2009.**

Point wise six monthly compliance status of the Specific and General Conditions stipulated in the Environmental Clearance issued to 8 MW Meghalaya Power Limited are as under:

SL No.	Conditions	Compliance Status
<b>A. SPECIFIC CONDITIONS</b>		
1.	Thirty three percent of the core project area shall be developed as green belt by the project proponent as per the guidelines of State Pollution Control Board to mitigate the effect of fugitive emission. The program ought to be completed within years from the date of issue of prior Environmental Clearance. The time schedule, suitable species and cost norms in respect of the same for the stated area shall be got approved by the project norms in respect of the same for the stated area shall be got approved by the project proponent from the DFO of Jaintia Hills District.	Thirty three percent of the core project area is being developed as green belt by MPL as per the guidelines of State Pollution Control Board.
2.	Effluent Treatment plant (ETP) shall be provided for treatment of liquid effluent. No liquid effluent shall be discharged from the process outside the premises and all the treated waste water shall be utilized for green belt development and other plant related activities.	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.
3.	Solid waste viz. fly ash from the power plant and dust generated shall be properly recycled and reutilized in the cement plant as proposed. Treated domestic sludge shall be used as manure for green belt. The fly ash utilization shall be as per the provisions stipulated in the fly ash Notification of September, 1999 and as amended in August, 2003.	All Fly ash generated from power plant is being used in nearby Cement plant of Group company and all solid waste collected from domestic sludge is being used as manure in green belt and there is no solid waste going outside premises of plant.
4.	In order to monitor air quality continuously, at least four ambient air quality monitoring stations shall be established (in consultation with MSPCB) in appropriate directions considering the probable maximum ground level concentration of SPM, SO <sub>2</sub>	AAQM station has already established at site and monitoring is done as said and monitoring report is sent to MSPCB.

	and NOx.	
5.	The stack emission from various sources shall not exceed 50 mg/Nm <sup>3</sup> . Data on ambient air quality and stack emissions should be regularly submitted to the SEIAA and MSPCB once in every six months.	Particulate emission is controlled within permissible limit and monitoring report is sent to concerned department in every six months.
6.	Bag house/ Filters shall be provided to control the fugitive emission during loading and unloading of raw material/ intermediate and finished products.	Bag House/ filters are provided at unloading and various transfers points of handling system of coal as coal is only raw material for power plant. Finish product is electricity, no filter is required for finish product to control the fugitive emission
7.	The project proponent shall secure a certificate from any of the NITs in the country within three months of installation of the Thermal Power Plant to the effect that water consumed in the TPP is not exposed to metallic/alloy surface of the plant for the reason of its being properly lined to prevent contamination from Chromium (VI). Such certificate shall be submitted to the MSPCB and SEIAA.	Analyses of plant water conducted by from NIT Durgapur within three months of installation of plant and Certificates provided to State Pollution Control Board.
8.	Quarterly reports on emission levels, surface and ground water quality shall be submitted to Meghalaya State Pollution Control Board, Chromium (VI) level in nearby surface water bodies flowing in the eastern site of the plant, and ground water shall be monitored and reported to the MSPCB. Water in the common Effluent pit of the TPP shall be monitored monthly for Chromium (VI) toxicity and ensured that its level does not rise beyond 0.05 mg/L.	Quarterly reports of surface and ground water quality have been submitted to Meghalaya State Pollution Control Board time to time. Water in the common Effluent pit of the TPP is being analysed time to time and report has been submitted to Meghalaya State Pollution Control
9.	Leq of Noise level in the Thermal Power Plant premises shall be limited to 75 dBA and regular maintenance of equipment should be undertaken. For personnel working in high noise areas, personal protection devices should be provided. Acoustic hoods shall be provided in respect of all equipment that has potential to contribute to noise pollution.	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.
10	Proper housekeeping and adequate occupational health programmes must be taken up. All the persons working in the sensitive areas shall wear protective covers. Occupational Health surveillance programme shall be done on a regular	Proper housekeeping is maintained and adequate occupational health programmes are taken up. Occupational Health Surveillance programme shall be done on a regular basis

	basis and records maintained.	and record is being maintained.
11	The project proponent shall store all the raw materials except limestone in covered sheds to control fugitive emission. The coal storage facility should have water sprinkling facility in order to arrest fire hazard, if any.	Coal is being stored in covered sheds to control fatigue emission and suitable water sprinkling facility is provided in coal sheds.
12	Total water requirement shall not exceed 750 m <sup>3</sup> /day. The project proponent shall install suitable sewage treatment plant to treat domestic sewage and treated sewage shall be utilized for green belt development. No waste water shall be discharged outside the premises and zero discharge shall be ensured. No surface runoff from the factory premises shall either reach/ contaminate um-lunar River or any other stream flowing near the industrial location.	Total water consumption does not exceed 750 m <sup>3</sup> / day. The industrial liquid effluent is treated in water treatment plant and re-circulated. Industrial and town ship residential sewage is treated in sewage treatment plant and treated water is utilized for dust suppression & irrigation of green belt. No water is discharged outside the plant premises and zero discharge is maintained. Surface runoff from factory and township is channeled and regulated into water reservoirs. No surface runoff from the factory premises either reaches / contaminates Um-lunar River or any other stream flowing near the industrial location.
13.	The project proponent shall make all out effort to use high calorific value hazardous waste in the kiln towards which necessary provision shall be made.	There is no high calorific value hazards from the plant as waste oil is being used after filtration and dehydration.
14.	The project proponent shall transport raw materials and industrial products through covered means.	MPL ensures the transportation of raw materials (coal) is done through covered means.
15.	Measures shall be taken to prevent impact of particulate emission/fugitive emission, if any, from the proposed plant on the surrounding forest areas depicted in their land use study	No such impact of particulate emission / fugitive emission has been recorded on the surrounded forest areas depicted in land use study.
16	A sum of Rs. 299.61 lakhs (being 9% of project cost) shall be spent towards capital expenditure environment protection and a further appropriate sum as recurring cost shall be spent annually by the project proponent towards environment protection.	The earmarked amounts have been spent towards procurement of Pollution Control equipment & erection and towards recurring maintenance cost of EPE & cost on monitoring environmental parameters as per CPCB guidelines etc.
<b>B. GENERAL CONDITION</b>		
1.	The project proponent shall strictly adhere to the stipulations of the MSPCB/state Government or any other statutory body as framed/ modified from time	MPL adheres strictly to the stipulations of the MSPCB / State Government and other statutory bodies as framed / modified from

	to time.	time to time.
2.	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment & Forests or their nominated authority as the case may be. In case of deviation or alteration in the project proposal form those submitted to this committee for clearance, a fresh reference shall be made to the SEAC through SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	The stipulation will be complied with in case of any proposal for change in status.
3.	The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> ) and particulate matter levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no point of time, the emissions shall exceed the prescribed limits. Interlocking system of equipment shall be chosen such that in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	The emission levels are monitored regularly as per norms and they are within the stipulated levels.  Interlocking system of equipment has been provided so that in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
4.	The industry shall undertake the following waste minimization measures: <ul style="list-style-type: none"> <li>• Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</li> <li>• Use of closed pneumatic system for transport of fine material.</li> <li>• All venting systems shall be connected with dust or particulate arresting equipment's.</li> <li>• Dust /Particulate matter collected in pollution control equipment's shall be reused</li> </ul>	<ul style="list-style-type: none"> <li>• All venting system is connected with dust or particulate arresting equipments such as ESP.</li> </ul>
5.	Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Board/Central Pollution Control Board.	Fugitive emissions in the work zone environment, product and raw materials storage area are regularly monitored. The emissions conform to the limits imposed by the State Pollution Control Boards / Central Pollution Control Board.
6.	Dust/ Particulate matter collected in pollution control equipment shall be reused spares would be maintained in respect of all pollution control equipment. Maintenance and optimum functioning of the pollution control equipment shall	All the collected dust / particulate matter from the pollution control equipments are reused. Inventory of spares are always maintained in respect of all pollution control

	be ensured by the project proponent.	equipment. Maintenance and optimum functioning of the pollution control equipment is ensured by MPL.
7.	The project proponent shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended and Hazardous Waste (Management & Handling) Rules, 1989 as amended from time to time. Authorization from the MSPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	Noted
8.	A separate Environmental Management Cell as part of overall project equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Environmental Quality Monitoring functions. A state of the art Chromium testing kit shall be maintained in the laboratory.	MPL has already established Environmental Management Cell, equipped with full-fledged laboratory facilities to carry out the Environmental Management and Environmental Quality Monitoring functions. A state of the art Chromium testing kit is maintained in the laboratory to test for presence of Chromium VI in the nearby flowing streams and ground water beneath the core area.
9.	All pollution control equipment in STP of the type specified by the project proponent shall be duly installed and manned full time by trained personnel appointed for the purpose.	The stipulation is complied.
10	A six monthly compliance status report shall be submitted to SEIAA/SEAC and Regional Office, Ministry of Environment & Forests, Govt. of India, Shillong apart from posting the same on the website of the Company	The stipulation is complied.

Thanking you,

Yours truly,

For **Meghalaya Power Ltd.**

**Authorised Signatory**

Cc: The Member Secretary  
State Environment Impact Assessment Authority (SEIAA)  
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