

Six Monthly compliance report
Of
M/S JUD Cements Ltd.

Sl. No.	Condition proposed in Environmental Clearance	Compliance Status
1	It is, interalia, noted that the project involves cement plant & 10 MW captive power plant on a plot of area of 20.00 acres. The total water requirement is 500 – 532 KLD. The capacity of STP to be installed is 160 KLPD. The power requirement is 6 MVA. Total cost of the project is 88.08 Crores towards the cement plant and 40.35 Crores towards the captive power plant totaling an aggregate of 128.43 Crores.	900 TPD Cement Plant had been commissioned in 2008. Installation of the CPP (10 MW) had been deferred and no work had been started so far in this regard.
2	The State Expert Appraisal Committee after due considerations of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations have recommended for environmental clearance as per the provisions of Environmental Impact Assessment Notification – 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:-	Noted.
A. Specific Conditions		
i)	A stack of 120 m height shall be provided with continuous on-line monitoring system in respect of thermal power plant. The data collected shall be analyzed and submitted regularly to the Meghalaya State Pollution Control Board and SEIAA.	It may kindly be noted that the installation of the CPP (10 MW) had been deferred and no work had been started so far in this regard.
ii)	High efficiency Electrostatic Precipitator (ESPs) shall be installed to limit particulate emission to 50 mg/Nm ³ .	We shall include ESP in the Power plant, whenever shall be commissioned. Presently, due to various constraints, we could not start work for the installation of the power plant. In our cement plant, one High Efficiency Electrostatic Precipitator (ESP) with three fields had been installed in the kiln (Grate cooler outlet) to control the particulate emission below 50 mg/Nm ³ . Present emission level is within the prescribed norms of 50 mg//Nm ³ .

iii)	Dust extraction and suppression system and water sprinklers shall be provided for controlling fugitive dust during transportation, in coal storage area and other vulnerable area of the plant.	Fugitive emission in the Cement Plant is being controlled by installation of Bag Filters of required capacities in all the material transfer points. Dust suppression system (water fumigation) system has been provided in the Primary Limestone Crusher and water sprinkling system has been deployed in the haul roads for controlling fugitive dust during transportation.
iv)	Water requirement for the thermal power plant shall be met from the existing water source. No ground water shall be extracted for the power plant at any stage.	Noted. We shall comply with the same for the Power Plant, whenever installed.
v)	Closed cycle cooling system with induced draft cooling towers shall be provided in the thermal power plant.	Noted.
vi)	The treated effluents shall be re-circulated and reused within the plant area. There shall be no waste water discharge outside the plant boundary.	Noted.
vii)	Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority / State Ground Water Board within six months of receipt of Environmental Clearance.	Noted. It may kindly be noted that we are not using any ground water at present. Although we are harvesting / collecting rainwater from a natural stream to a 1.2 million liter capacity tank constructed at low lying area. This water is also used for water sprinkling on the service roads inside the plant area as well as other uses.
viii)	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 personal 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.	Noted.
ix)	Dry ash collection system shall be provided in the thermal power plant. 100% ash utilization shall be ensured from the very first day of commissioning of the thermal power plant.	Noted.
x)	The stack emission form various sources shall not exceed 50 mg/Nm ³ .	Presently we operate the cement plant only. State of the Air Pollution Control (APC) devices has been installed in all the units and stack emission is found within the permissible limit.
xi)	Bag House / Filters shall be provided to control the fugitive emission during loading and unloading of raw materials / intermediate and finished products.	Fully complied with.

xii)	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.	The company stores all the raw materials (except limestone) in covered sheds to avoid fugitive emission as well as to protect the quality of the raw materials.
xiii)	The ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the Meghalaya State Pollution Control Board (MSPCB) and additional stations shall be installed, in the downwind direction as well as where maximum ground level concentrations are anticipated.	We have fixed four (4) ambient air quality monitoring stations in consultation with the SPCB. Regular monitoring is also being done by Meghalaya State pollution Control Board.
xiv)	Total water requirement shall be in the proposed range of 500-532 m ³ /day and shall not exceed 750 m ³ /day. The project proponent shall install sewage treatment plant of minimum 160 m ³ /day capacity 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.	We are yet to set up the residential colony. STP shall be set up together with the residential colony in the future. Presently, we have septic tanks attached to the individual quarters and as such no untreated sewage is discharged. You will appreciate that from the Cement Plant no wastewater is generated. Surface runoff from the factory are not leading to any natural stream in the locality.
xv)	The project proponent shall make all out effort to use high calorific value hazardous waste in the kiln towards necessary provision shall be made.	Noted for complying.
xvi)	The project proponent have proposed procurement of only 1 captive mine in respect of lime stone of 4.75 Ha which would be grossly inadequate to sustain the limestone requirement in respect of the cement plant. The project proponent shall take expedient steps to procure such additional limestone mines as would be necessary to sustain the limestone requirement of the cement plant.	Noted & being complied.
xvii)	The project proponent shall transport raw material and industrial product through covered means.	Raw materials, viz., coal, gypsum, fly ash, etc., and industrial products (clinker and Cement) are transferred through covered trucks. Limestone from the captive mine is transported locally through dumpers. Care is taken so that the movement of dumpers from the captive mine to the plant does not generate fugitive emission. Haul roads are regularly water sprayed.

xviii)	Thirty three percent of the core project area shall be developed as green belt by the project proponent as per the guidelines of central Pollution Control Board to mitigate the effect of fugitive emission. The applicant in his application for environmental Clearance has stated that the project is would be 30 Ha. If that be so, an area of 10 Ha shall be developed as afforestation area. The programme ought to be completed within 5 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 approved by the project proponent from the DFO of Jaintia Hills District.	Noted and being Complied. Most of the open areas have been covered with plantation as we have planted more than 1400 saplings. We are getting the saplings of native species through the state Forest department.
xix)	The project proponent shall provide a Health care centre with all emergency medicines and ambulance along with regular serving doctors complete with emergency unit that would function round the clock. Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.	Primary health care centre is being operated within the factory premises. The centre is run with the help of 1 doctor, 1 nurse and 1 paramedical staff (full time) for regular health check up the employees as well as the workers. Health record of employees/workers is being maintained.
xx)	Measures shall be taken to prevent impact of particulate emission / fugitive emission, if any, from the proposed plant on the surrounding private forest areas depicted in their land use study.	Noted. So far, no such impact of particulate emission / fugitive emission has been recorded on the surrounding forest areas. As already mentioned, the plant has been practicing necessary steps to minimize emission (both source emission and fugitive emission) in the cement plant and in the mining areas.
xxi)	The project proponent shall raise conservation plots (over an area not less than 2 Ha) complete with green house, mist chamber etc. within the afforestation area of 10 Ha already stipulated above, in respect of endangered and endemic plants listed by the project proponent in their EIA report. A scheme / conceptual plan of raising such conservation plot shall be prepared in consultation with a reputed institution such as Botanical Survey of India complete with cost and activity schedule within 6 months from date of issue of prior Environmental Clearance.	Noted for complying. The company has provided about an area of 2.7 ha as conservation plot. we are already started for protecting this area by iron fencing. Green house, mist chamber will is also be provide.
xxii)	A conservation plan for conservation of wild fauna in consultation with a reputed institution such as Wildlife Institution of India, Dehdarun shall be prepared and implemented such conservation plan drawn in respect of wild life shall be completed within a maximum of 1 year from the date of issue of prior Environmental Clearance and implemented thereafter by the project proponent.	Wildlife should not be affected from the plant operations.

xxiii)	A sum of Rs. 1013 lacks shall be spent as stated by the project proponent towards environment protection and a further sum of Rs. 10 Lacks per annum shall be utilized till the project subsists towards socio – economic development activities of the area.	Noted and being Complied. Pollution control devices have been installed at all the strategic locations. More than Rs 10 lacs is spent every year towards socio-economic development activities of the area.
B. General Conditions		
(i)	The project proponent shall strictly adhere to the stipulations of the MSPCB / State Government or any other statutory body as framed / modified from time to time.	The company adheres strictly to the stipulations of the MSPCB / State Government, Central Pollution Control Boars and other statutory bodies as framed / modified from time to time.
(ii)	No further expansion or modifications 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 alternation in the project proposal from 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.	Agreed with. The stipulation will be complied with, in case of any proposal for change in status.
(iii)	The gaseous emissions (SO ₂ , NO _x) and particulate matter levels from various process units shall confirm to the standards prescribed by the concerned authorities form time to time. At no point of time, the emissions shall exceed the prescribed limits. Interlocking system of equipments shall be chosen such that in the event of failure of any pollution control system adopted by 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. Programmable logic controller / 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 without normal functioning of the APC devices.
(iv)	The industry shall undertake the following waste minimization measures: <ul style="list-style-type: none"> • Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. • Use of closed pneumatic system for transport of fine material. • All venting systems shall be connected with dust or particulate arresting equipments. 	There is no bye product generated in a cement plant. We employ waste minimization practices to the best possible extent. Closed pneumatic system is employed for transport of fine material in the manufacturing processes. All venting systems are connected with dust or particulate arresting equipments such Bag Filters.
(v)	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 Boards / Central Pollution Control Board.	Fugitive emissions in the work zone environment, product and raw materials storage area are regularly monitored. Stipulation is complied with.
(vi)	Dust / particulate matter collected in pollution control equipments shall be reused. Spares	All the collected dust / particulate matter from the pollution control equipments are used totally.

	would be maintained in respect of all pollution control equipment. Maintenance and optimum functioning of the pollution control equipment shall be ensured by the project proponent.	Inventory of spares are always maintained in respect of all pollution control equipment. Maintenance and optimum functioning of the pollution control equipment is be ensured by the company.
(vii)	The overall noise levels in and around the plant area shall be kept within the approved standards by providing noise control measures such as acoustic hoods, silencers, enclosures, on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986, Environment (protection) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noted. The regular noise level monitoring is regularly monitored and found within the permissible limit.
(viii)	The project proponent shall strictly comply with the rules and guidelines under Manufacture, storage and import of Hazardous Chemicals Rules, 1989 as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	Noted & being complied.
(ix)	Rainwater harvesting shall be done within the premises. Ground water recharge structures shall be installed around the plant in consultation with local authorities to maintain the ground water table.	Presently, rainwater is tapped from a natural stream to 1.2 million liter capacity tank constructed at low lying area. The tank works as a point for ground water recharge so that ground water table could be maintained.
(x)	The project proponent shall undertake eco-development activities including community welfare measures in the project area for the overall improvement of the environment. A comprehensive eco-development plan should be prepared by the project proponent within six months to the SEAC within three months of receipt of prior Environmental Clearance.	Noted. The eco-development measures like planting of saplings creation of green belt has been initiated. Community welfare is also regularly done through providing financial support for making of Road, church and other development activity.
(xi)	A separate environmental management cell equipped with full flagged laboratory facilities shall be set up to carry out the Environmental Management and Environmental Quality Monitoring functions.	Noted & Being complied. Environmental Cell is headed by Plant Head. We have our full fledged quality control laboratory. Environmental monitoring is presently outsourced to a recognized laboratory. Meanwhile, we are also training our staff for in-house monitoring of environmental parameters.
(xii)	All pollution control equipment in STP of the type specified by the project proponent shall be duly installed and manned full time by trained personal appointed for the purpose.	Noted for comply. Presently, the company has provided septic tanks to all the staff colony. No waste water is discharged outside the plant premises.

(xiii)	<p>Implementation of the project vis-à-vis environmental action plans shall be monitored by the Regional Office, Ministry of Environment & Forests duly assisted by the SPCB. A six month compliance status report shall be submitted to the latter apart from posting the same on the website of the company.</p> <p>The Regulatory Authority may revoke or suspend the clearance on the recommendation of the SEAC, if implementation of any of the above conditions is not satisfactory.</p> <p>The Regulatory Authority may on the recommendation of SEAC reserve the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions too.</p> <p>The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control of pollution) Act, 1974, Air (prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management & Handling) Rules, 2003 and the Public Liability Insurance Act, 19991 along with their amendments and rules.</p>	<p>Noted & being complied.</p> <p>Agreed with.</p> <p>Agreed with.</p> <p>Agreed with.</p>
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Thanking you,

Yours truly,
For M/S JUD Cements Ltd.



Authorized Signatory