



GOVT. OF ASSAM
OFFICE OF THE STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ASSAM
BAMUNIMAIDAM, GUWAHATI-21.



No. SEIAA.754/2016/EC/14/488

Dated: Guwahati the 27th April 2016.

To

M/s Barak Valley Cements Ltd.
Debendranagar, Joombasti,
P.O: Badarpurghat,
Dist: Karimganj, Assam.

Sub: Proposed modification of Clinker unit without Increasing production capacity (600 TPD) and Expansion of Cement Grinding Unit (From 750 TPD to 1,000 TPD) at Debendranagar, Joombasti, P.O- Badarpurghat, Dist- Karimganj, Assam by M/s Barak Valley Cements Ltd; Regarding: Environmental Clearance.

Reference is invited to your Letter No. nil, dated 10th December 2015 along with the application in the prescribed format (Form-I), Pre Feasibility report, land document and subsequent submission of other relevant documents as sought by SEIAA, Assam for the purpose project of seeking environmental clearance for modification of Clinker unit without increasing production capacity (600 TPD) and Expansion of Cement Grinding Unit (From 750 TPD to 1,000 TPD) at Debendranagar, Joombasti, P.O- Badarpurghat, Dist- Karimganj, Assam under the provisions of the EIA Notification, 2006. Accordingly the Members of the committees (SEIAA & SEAC) has scrutinized & examined all the relevant documents in the meeting.

It is noted that M/s Barak Valley Cements Ltd have proposed for modification of Clinker unit without increasing production capacity (600 TPD) and Expansion of Cement Grinding Unit (From 750 TPD to 1,000 TPD) in the existing cement plant by optimization of process operations on heat recuperation and reduction in coal consumption upto 14.5 to 15%. The lime stone will be sourced from Lumshnong of Meghalaya which is located 85 km away from the Cement plant. No additional land will be required for the expansion of grinding unit. The existing land area is 69.3461 acres. in which Infrastructure area is 12.356 acres, Roads 1.443 acres, Vacant area 32.5471 acres alongwith additive raw material storage and Green belt is 23.0 acres. The raw material & fuel requirement for clinker production of 600 TPD and Cement grinding unit 1000 TPD are as follows-Lime stone- 780 MTD, Clay- 156 MTD, Coal 86.7 TPD, Performance Improver- 15 TPD, Iron Dust- 31.2 TPD, Clinker- 138.5 TPD and balance will be procured from outside, Fly Ash 245 MTD, Gypsum 1.5 TPD. The finish product will be transported by Road. No rehabilitation & resettlement is involved. The existing cement clinker plant has already installed dust collectors & atomized spray system to control fugitive emission. ESP to clinker cooler proposed now. Pulse jet bag filter to kiln, cement mill separator, R.M. hopper vent, blending Silo, cement silos, cement mill, packing mill, coal mill, cyclones to crusher, setting chambers and dust collectors has already been provided in the existing cement plant. The existing installed pollution control devices & proposed ESP are sufficient to cater the extra load without compromising its efficiency after proposed expansion. The total water requirement will be 120 KLD. Out of total water 54.0 KLD will be utilized for the cooling and dust suppression purpose, 16.0 KLD will be use for domestic purpose and remaining 50 KLD water will be gardening and other purpose. Water will be sourced from surface water. Dust collected from various control equipments is recycled back to the process. The total power requirement after proposed expansion will be 5.694 MW and Diesel 440 L/hr will be required for D. G. set for emergency use. The waste water generation 16 KLD from domestic and will be treated through septic tank and disposed off through soak pit/well. The total cost of the project is **33.10 Cr.**

Considering the facts cited above the members of both the committees in its meeting agreed upon for preparation of EIA & EMP Report. Accordingly it has been discussed and scrutinized by the Committees on 17-03-2016 and found that the project falls under 3(b) and considered as B₂ Category of EIA Notification 2006. Subsequently the final EIA & EMP report along with the reports placed for discussion in the meeting held on 23rd April 2016. The project proponent has appraised before the members of the both the committees on final EIA & EMP report and informed the justification on heat recuperation and reduction in coal consumption. After detail discussion & reply of the queries made by the proponent before the members of both the committees, the proposed project has been recommended for issuance of Environmental Clearance.

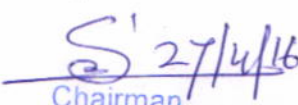
Based on the recommendation of the Committees, the State Environment Impact Assessment Authority, Assam (SEIAA) accords Environmental Clearance to the project as mentioned above under the provision of EIA notification 2006 and its subsequent amendments issued under Environment Protection Act, 1986 subject to compliance of following specific and general conditions.


Chairman

SEIAA, Assam

A. **SPECIFIC CONDITION:**

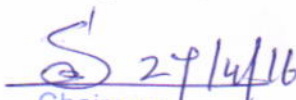
1. Electrostatic Precipitators (ESPs) to Clinker Cooler and pulse jet bag filter to Pre-calcinator kiln & Raw Mill to control emission within the prescribed limit as per the new MoEF & CC standards wide GSR 612(E) dated 25/08/2014. Pulse jet bag filter shall be provided to cement mill and packing plant to control SPM emission. pulse jet bag filter shall be provided to crushers, coal drying & grinding unit, hopper blending silo/kiln feed, raw mill hopper, cement silo, cement silo top, packing plant and at all other places including transfer points, venting auxiliaries etc. to reduce particulate matter. Performance study of the pollution control devices shall be conducted yearly to ensure their efficiency.
2. Continuous monitoring system to monitor gaseous emission shall be provided and limit shall be conforming to the prescribed standards framed by MoEF/ CPCB by installing adequate air pollution control system. Data on ambient air quality, stack emissions and fugitive emissions shall be displayed in public domain and also regularly submitted on-line to the SEIAA, Assam & Regional office MoEF at Shillong, and Central Pollution Control Board (CPCB) as well as hard copy once in six months.
3. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. Crusher shall be operated with high efficiency bag filters. All conveyers shall be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transporting of materials shall be provided besides coal, cements, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.
4. Dust suppression by regular water sprinkling shall be carried out in plant areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading points, transfer points and other vulnerable area to control fugitive emissions. Fugitive emissions shall also be controlled by dust suppression and water sprinkling system. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
5. Effort shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored.
6. Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.
7. Efforts shall be made to reduce impact of transport of the raw materials and end products on the surrounding environment including agricultural land/Tea garden etc. All the raw materials including fly ash shall be transported in the closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral.
8. Asphaltting/Concreting of road and water spray all around the critical areas prone to air pollution and having high levels of SPM and RPM shall be ensured.
9. Total water requirement from surface water source shall not exceed 120 KLD. Water efficient technology shall be provided to conserve water. Treated water shall be used in dust suppression and green belt development etc. 'Zero' discharge shall be strictly adopted and no effluent shall be discharged.
10. Permission for the drawl of 120 KLD water from surface water shall be obtained from the concerned department if necessary.
11. Domestic effluent shall be treated in Sewage Treatment Plant (STP) in proposed colony and in septic pits followed by soak pits in cement plant and mine lease area. All the treated waste water shall be used for gardening/agricultural purposes and dust suppression. Domestic waste from colony and Solid waste (MSW) from Industrial area shall be segregated into bio-degradable and non-biodegradable. Bio-degradable waste shall be composted and non-biodegradable waste shall be disposed off in environment-friendly manner or filled at identified sites only after proper treatment.
12. The project proponent shall ensure that no natural water course shall be obstructed due to any operations.
13. Suitable conservation measures to augment ground water resources in the area shall be planned and implemented in consultation with concerned authority.
14. The project proponent shall take appropriate mitigation measures to prevent pollution of nearby River and other surface water body, if any.


Chairman
SEIAA, Assam

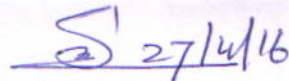
15. All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Clay & shale generated as solid waste in the mine area shall be used for manufacturing clinker. Refractory bricks shall be sold to authorized agencies. ETP sludge shall be dried, compressed and used for land filling. Treated sewage shall be used as manure for green belt development. Waste oil, grease and scrapped automobiles batteries shall be provided to the authorized recyclers/re-processors.
16. An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.
17. As proposed, green belt shall be developed in (33%) of the total land in cement plant as per the CPCB guidelines in consultation with local DFO to mitigate the impact of fugitive emissions. A long term plan for the plantation/ afforestation /green belt development etc. shall be prepared and submitted to the SEIAA, Assam and Regional Office of MoEF at Shillong and implemented.
18. All the safety norms stipulated by the Director General, Mine & Safety (DGMS) shall be implemented. On site & off site emergency plan shall be prepared in consultation with respective authorities and implement accordingly.
19. 'Consent to Operate' shall be obtained from State Pollution Control Board, Assam.
20. Acoustic enclosures shall be provided to control noise wherever necessary. Noise shall be controlled from cooler fans, compressor house, cement mill and raw mill, cement plant using appropriate noise control measures.
21. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plant shall be implemented.
22. Solar light system shall be installed in the roads site of the plant area.
23. The company shall provide housing for 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 structure to be removed after the completion of the project.

B. GENERAL CONDITIONS:

1. The project authority must adhere to the stipulation made by State Pollution Control Board, Assam and State Government.
2. No further expansion or modification of the plant shall be carried out without prior approval of SEIAA, Assam.
3. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM¹⁰, PM^{2.5}, SO² and Nox are anticipated in consultation with the State Pollution Control Board, Assam. Data on ambient air quality and stack emissions shall be submitted to the SEIAA, Assam including Regional office MoEF at Shillong and State Pollution Control Board, Assam once in six months.
4. Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. The treated wastewater shall be utilized to plantation purpose.
5. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986, Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
6. Proper housekeeping and adequate occupational health programs must be taken up. Occupational Health Surveillance program shall be done on a regular basis and maintained records. The Program must include function and sputum analysis tests once in six month.
7. The company shall harvest the rainwater from the roof tops and storm water drains for utilizing in the lean season besides recharging the ground water table.
8. The company shall under take eco-development measures including community welfare measures in the project area.
9. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.
10. A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
11. Rs. 350.0 lacks spent towards capital cost and as proposed Rs. 30.0 lakhs earmarked towards recurring cost/annum for the environmental protection measures and Rs. 82.75 Lac for CSR activities shall be utilized over a period of five years to implement the conditions stipulated by the SEIAA, Assam as well as the Ministry & State Govt. and submit implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.


 Chairman
 SEIAA, Assam

12. The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, Assam. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to SEIAA, Assam & Regional office, MoEF at Shillong.
13. A copy of clearance letter shall be sent by the proponent to concerned DC, Urban Local Body and the local NGO if any from whom suggestions/ representations if any were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
14. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the SEIAA, Assam, Regional office of the MoEF, Shillong & PCB, Assam. The criteria pollutant levels namely: PM (stack), PM₁₀, PM_{2.5}, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
15. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA, Assam, & Regional office of MoEF, the respective Zonal Office of CPCB and the SPCB. The SEIAA, Assam/Regional Office of MoEF at Shillong shall monitor the stipulated conditions.
16. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned SEIAA, Assam and PCB, Assam 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 conditions and shall be sent to the SEIAA, Assam & regional office of MoEF, Shillong.
17. The SEIAA, Assam may revoke or suspend the clearance if implementation of any of the above conditions is not found satisfactory.
18. Any other conditions or alternation in the above conditions will have to be implemented by the project proponent in a time bound manner.
19. The above conditions will be enforced, inter-alia under the provisions of the water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 the Environment Protection Act, 1986 and the public Liability Insurance Act, 1991 along with their amendments and rules.



(Prof. S. K. Borthakur)

Chairman, SEIAA, Assam

Bamunimaidam, Guwahati-21.

Memo No. SEIAA.754/2016/EC/14-A

Dated: Guwahati the 27th April 2016.

Copy to:

1. The Secretary to the Govt. of Assam, Environment & Forest Department, Dispur, Guwahati-6 Cum Member Secretary, SEIAA, Assam for favour of kind information.
2. The Deputy Commissioner, Dist: Karimganj, Assam for favour of kind information.
3. The P.C.C.F., HoFF, Govt. of Assam, Rehabari, Guwahati-8 for favour of kind information.
4. The Member Secretary, PCB Assam for information & necessary action.
5. The Regional Office, MoEF, Govt. of India, Low-U-sib, Lumbatngen, Near MTC Workshop, Shillong-21 for information.
6. Office Copy.



(Prof. S. K. Borthakur)

Chairman, SEIAA, Assam

Bamunimaidam, Guwahati-21.