



Govt. of Assam

Office of the State Environment Impact Assessment Authority, Assam
Bamunimaidam, Guwhati-21.



No. SEIAA.121/2014/EC/171

Dated: Guwahati the 4th February 2015.

To,

✓ The Director,
Valley Strong Cement (Assam) Ltd.
Debendra Nagar, Badarpur.
Dist- Karimganj, Assam.

Sub: - Proposed Cement and Cement Clinker manufacturing Unit [Cement 0.66 MTPA (OPC 0.132 MTPA, & PPC 0.528 MTPA) and Clinker 0.528 MTPA] at Debendra Nagar, Joom Basti, Badarpurghat, Dist-Karimganj, Assam by M/S Valley Strong Cement (Assam) Ltd. Regarding- Environmental Clearance.

Ref: - Your letter VSCL/0309/2009-10 dated 03/09/2009

This has a reference to your letter no VSCL/0309/2009-10 dated 3rd Sept 2009 along with project documents including Application Form-I, Pre-feasibility report, project profile, draft Terms of References, and EIA/EMP Report along with public hearing/consultation report seeking environmental clearance under the EIA notification; 2006 and subsequent communication dated 6th Nov. 2009, 9th December 2009, 6th Nov 2013 & 17th December 2013 and response to queries by the project proponent on the above mentioned Cement project.

The Ministry of Environment and Forest, Govt. of India has examined the application. It is noted that proposal is for the cement manufacturing unit with a capacity of 0.66 MTPA (OPC 0.132 MTPA & PPC 0.528 MTPA) and Clinker 0.528 MTPA at JoomBasti, Debendra Nagar Badarpur, Karimganj, Assam by M/s Valley Strong Cement (Assam) Ltd. The total land acquired for the plant is 30 ha. and colony land is non-forest and non-agricultural. Raw materials requirement are Coal (70,686 TPA), Lime stone (4.71 lakh TPA), Clay (80,850 TPA) and Gypsum (13200 TPA). Total water requirement is 300m³/day. The power requirement is 10 MW. Liquid effluent will be treated in ETP & domestic waste water in STP. The treated effluent will be used for dust suppression & green belt development. There is no effluent discharge from the unit. There is no Wild Life Sanctuary within the 10KM radius. Total cost of the project is Rs. 267 Corers.

Cement manufacturing will involves raw materials grinding, blending, pre-Calcining, clinker formation and cement grinding. Electrostatic precipitators (ESPs) to Clinker cooler and reverse Air Bag House to pre-Calcinator & Vertical Raw Mill, pulse jet bag filter to cement mill to control emission within 50 mg/N m³. Pulse Jet bag filter to crushers coal drying and grinding unit etc and water spray system to coal storage area will be provided.

The public hearing was conducted on 6th Sept. 2010 in accordance of EIA notification 2006 and subsequently the final EIA/EMP report was submitted to MOEF, Govt. of India 7th June 2013 along with public hearing report.

As per EIA Notification 2006 the aforesaid, project is listed at Sl. No 3(b) of the schedule as category 'B', hence MoEF, Govt. of India forwarded the project proposal to SEIAA, Assam vide letter no F. No J-11011/570/2009-1A11 (I) dated 17th December 2013 for appropriate action. Further the proposal is re-examined all the relevant documents and the final EIA/EMP report carrying out for the cumulative impact assessment and mitigation measures to be adopted by the project proponent and discussed the proposal thoroughly by the members of SEAC, in the meeting held on 3rd April 2014 and recommended for issue of Environmental Clearance.

Accordingly, SEIAA, Assam hereby accords necessary Environmental Clearance for the above project as per provision of Environmental Impact Assessment Notification 2006 and its subsequent amendment, subject to strict compliance of the terms & conditions as follows.

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04/02/15
Member Secretary
SEIAA, Assam

A. SPECIFIC CONDITION:

1. Consent to Establish shall be obtained from Pollution Control Board, Assam and copy of the same shall be submitted to SEIAA, Assam.
2. As Proposed, Electrostatic precipitators (ESPs) shall be provided to clinker cooler of cement plant to control particulate matters from the cement plant within 50 mg/Nm^3 respectively. Bag house shall be provided to cement mill and raw mill/kiln to control SPM emissions. Bag filters 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.
3. Continuous monitoring system to monitor gaseous emission shall be provided and limit of SPM shall be controlled within 50 mg/Nm^3 in the cement plant by installing adequate air pollution control system. Data on ambient air quality stack emission and fugitive emission shall be uploaded on the Company's website and also regularly submitted on-line to the SEIAA, Assam & Ministry's Regional Office at Shillong, as well as hard copy once in six months.
4. Possibilities shall be explored for the proper and full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB) and a feasibility report shall be prepared and submitted to the SEIAA, Assam and Regional Office of MOEF at Shillong within 3 months from the date of issue of the letter.
5. The company shall install adequate dust collection and extraction system to control fugitive dust emission 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 transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.
6. Dust suppression by regular water sprinkling shall be carried out in cement plant, CCP and area 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 areas to control fugitive emissions. Fugitive emission shall also be controlled by dust suppression. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
7. Measures shall be taken to prevent impact of particulate emission/fugitive emission, if any from the proposed plant on the surrounding area.
8. Efforts shall be made to reduce impact of the transfer 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 and comply the norms.
9. 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.
10. Asphaltting/concreting of roads and water spray all around the critical areas prone to air pollution and having high levels of SPM and RPM shall be ensured.
11. The gaseous emissions and particulate matter levels from various process units shall conform to the standards prescribed by the MOEF Govt. of India from time to time. At no pint 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 restated until the desired efficiency has been achieved.
12. Total water requirement shall not exceed $300 \text{ m}^3/\text{day}$. Water efficient technology like air-cooled condenser to captive power plant shall be provided to conserve water. The treated effluent shall be recycled / reused in plant related activities i.e. cooling, dust suppression and green belt development etc. 'Zero' discharge shall be strictly adopted and no effluent shall be discharged from the cement plant, outside the premises to any nearby water body/river etc.
13. 'Permission' for the drawl of $300 \text{ m}^3/\text{day}$ water from river, natural springs and ground water sources shall be obtained from the concerned department.
14. Domestic effluent shall be treated in Sewage Treatment Plant (STP) in colony and in septic pits followed by soak pits in cement plant. All the treated waste water shall be used for gardening/ agricultural purposes and dust suppression. Domestic waste from colony and STP 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. Effluent Treatment Plant (ETP) shall also be provided for workshop and mineral separation plant for the treatment of wastewater.
15. Regular monitoring of ground water level shall be carried out a network of existing wells. The frequency of monitoring shall be four times a year-pre-monsoon (April/ May), monsoon (August), post-monsoon (November), and winter (January). Data thus collected shall be sent at regular intervals to SEIAA, Assam and Regional Office, MOEF, Shillong and Central Ground Water Board.
 16. Suitable conservation measures to augment ground water resources in the area shall be planned and implemented in consultation with Central Ground Water Board.
 17. The project proponent shall take appropriate mitigation measures to prevent pollution of nearby river and other surface water body, if any.
 18. All the bag filter dust, raw mill 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. 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 automobile batteries shall be provided to the authorized recyclers/reprocessors as per Hazardous wastes (Management, Handling & Transboundary Movement) Rules 2008 and Batteries (Management & Handling) Rules 2001.
 19. An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.
 20. Effort shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.
 21. All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amended in 2003. Efforts shall be made to use fly ash maximum in making Pozollona Portland Cement (PPC). Fly ash shall be stored in silos and transported pneumatically to the cement plant and used for the manufacturing of PPC. Bed Ash shall be conveyed pneumatically to a bed ash storage silo for further use as a boiler bed material.
 22. Rain water collected from the roof top shall be injected into the ground through injection wells to recharge the ground water table.
 23. As proposed, green belt shall be developed in at least (33%) in project area as per the CPCB guidelines in consultation with local DFO to mitigate the impact of fugitive emissions. A long term action plan for the plantation/a-forestation/green belt development etc. shall be prepared and submitted to the SEIAA, Assam and Regional Office of MOEF Shillong.
 24. The project proponent shall take all precautionary measures during construction & operation phases for conservation and protection of flora & fauna. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the SEIAA, Assam & Regional office of MoEF Shillong within 3 months from the date of issue of this letter.
 25. Rehabilitation and Resettlement Plan for the project affected population including tribal as per the policy of the State Govt. shall be implemented. Compensation paid in any case shall not be less than the norms prescribed under the National Resettlement and Rehabilitation Policy, 2007.
 26. All the safety norms stipulated by the Director General, Mine & Safety (DGMS) shall be implemented.
 27. Requisite on site & off site emergency plan shall be prepared in consultation with concerned authorities and implemented.
 28. The project authority should strictly comply the provisions made in Manufacture, Storage & Import of Hazardous Chemicals Rules 1989 as amended and the Public Liability Insurance Act for hazardous chemicals etc.
 29. Acoustic enclosures shall be provided to control noise whenever necessary. Noise shall also be controlled from cooler fans, compressor house, cement mill and raw mill, cement plant and drilling machines, excavator, blasting at mine site using appropriate noise control measures.
 30. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.
 31. The company shall comply with the commitments made during public hearing held on 8th Sept. 2010.
 32. 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 structures to be removed after the completion of the project.

33. Under Corporate Social Responsibility (CSR) sufficient budgetary provision shall be made for health improvement, education, electricity, water and other socio economic up-liftmen in and around the project area.

B: GENERAL CONDITIONS:

1. The project authorities must adhere to the stipulation made by State Government of Assam.
2. No further expansion or modification in the project shall be carried out without prior approval of the 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 RM_{10} , $PM_{2.5}$, SO_2 and NO_x are anticipated in consultation with the Pollution Control Board. Data on ambient air quality and stack emissions shall be regularly monitored & submitted to the SEIAA, Assam including Regional Office of MOEF at Shillong 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 waste water shall be utilized for 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 Environmental (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 programme shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.
7. The company shall undertake eco-development measures including community welfare measures in the project area.
8. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.
9. A separate environment 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.
10. As proposed, Rs.760 Lakh and 65 Lakh shall be earmarked towards capital cost and recurring cost/annum for the environmental protection measures to implement the conditions stipulated by the Govt. and submit implementation schedule for all the conditions stipulated herein to SEIAA, Assam & the Regional Office of MOEF at Shillong / Central Pollution Control Board. The funds so provided shall not be diverted for any other purposes.
11. The project Authorities shall inform SEIAA, Assam as well as Regional Office, MOEF at Shillong the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work etc.
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 the SEIAA, Assam.
13. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, 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. The criteria pollutant levels namely: SPM, RSPM ($PM_{10}/PM_{2.5}$), SO_2 , NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at 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 and Regional Office of MOEF, Shillong. The SEIAA, Assam shall monitor the stipulated conditions mentioned in the Environmental Clearance time to time.
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 SEIAA, Assam and Pollution Control Board, 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 also be sent to the SEIAA, Assam & Regional Offices of the MOEF, Shillong by e-mail.

17. The SEIAA, Assam or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions will be monitored by SEIAA, Assam & the Regional Office of MOEF, Shillong.
18. The SEIAA, Assam may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.
19. Any other conditions or alternation in the above conditions will have to be implemented by the project authorities in a time bound manner.
20. The above conditions will be enforced, inter-alia under the provisions of the Water (prevention and Control of Pollution) Act, 1974 the 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.

Amu
Member Secretary *Member Secretary*
SEIAA, Assam *SEIAA, Assam*
Bamunimaidam, Guwahati-21

Memo No. SEIAA.121/2014/EC/171-A

Dated: Guwahati the 4th February 2015.

Copy to:-

1. The Secretary to the Govt. of Assam, Environmental & Forest Department, Dispur, Guwahati-6 for favour of kind information.
2. The PCCF, HoFF, Govt. of Assam, Rehabari, Guwahati-8 for favour of kind information.
3. The Member Secretary P.C.B. Assam for favour of kind information.
4. The Regional Office, MoEF, Govt. of India, Low-u-sib, Lumbatngen, Near MTC Workshop, Shillong-793021 for favour of information.
5. Office file.

Member Secretary
SEIAA, Assam
Bamunimaidam, Guwahati-21