



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ASSAM  
Ministry of Environment, Forest and Climate Change, Government of India  
BAMUNIMAIDAM, GUWAHATI-21

No. SEIAA.186/2014/EC/91

Dated: 09/02/2018

To,

M/s Alstom Industries Limited  
Village: Baghjap, P.o.-Jagibhakat Gaon,  
Dist- Morigaon, Assam.  
Pin-782410.

**Sub: Proposal for Enhancement of Production Capacity of Cement Grinding Unit from 1000 TPD to 1540 TPD (OPC/PPC) at Dag no. 286 & 273 etc. of K.P. Patta No 6 & 86 etc. at Village- Baghjap, Mouza- Guva of Morigaon District, Assam by M/s Alstom Industries Ltd, Regarding- Environmental Clearance.**

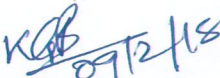
Ref- Your application dated 27th March, 2017

This has a reference to your application dated 27/03/2017 along with project documents including Application in Form-I, Pre-feasibility report, project profile, etc. seeking environmental clearance under the EIA notification, 2006 and subsequent communications and response to queries by you.

It is now noted that the proposal is for increasing production from 1000 TPD (0.3 MTPA) to 1540 TPD (0.532 MTPA) in the existing Cement Grinding Unit at Dag no. 286 (old), 547 (new), 273 (old), 534 (new), 284, 57, 536, 281 & 282 of K.P. Patta no. 6 (old), 260 (new), 86 (old), 247 (new), 213, 88, 249, 49 & 30 of total area 15 Bigha – 0 Katha -11 Lechha i.e. 20217 Square Meter area at Village-Baghjap Mouza- Guva of Morigaon District, Assam which is Industrial Land. The total land acquired for the plant is 20217 Square Meter (approx. 2.022 Hectares) which is already in possession of the project proponent, about 6672 Square Meter (approx. 0.6672 Hectare) will be developed under green belt. River Kolong is flowing at a distance of 0.8 KM in North direction from the project site. No forest land is involved. The project site is in Seismic Zone-V. The manufacturing process of cement comprises mixing and grinding of clinker, gypsum, & fly ash. The proposed expansion shall be achieved by minor modification, process optimization, and increase in equipment running hours & days. The raw materials required for the proposed expansion will be Clinker (1463/924 TPD.OPC/PPC), Gypsum (77/77TPD) and Fly ash (539TPD). Raw materials will be procured from various places and transported by Railway and road through trucks. The total investment will be increased from Rs.40.84 crores to Rs.72.00 crores (i.e fresh investment of Rs. 31.16 crores). The unit has conducted trial run with enhanced capacity of 1540 TPD on experimental basis to ensure the feasibility and compliance of emission standards, however, the permitted annual production has been kept at the existing EC capacity of 0.3 MTPA.

It is noted that the proposal was earlier granted Environmental Clearance by SEIAA, Assam vide letter No SEIAA.186/2014/EC/21 dated 2<sup>nd</sup> March 2015. The project was categorized as 'B2' category as per EIA Notification, 2006. A subsequent amendment was made in the EC vide letter no SEIAA.186/2014/88 dated 8<sup>th</sup> June, 2015. CTE obtained from PCB, Assam vide letter no WB/RONG/T-180/14-15/79/13 dated 2<sup>nd</sup> April' 2015. CT0 obtained from PCB, Assam vide letter no WB/RONG/T-180/14-15/200/1287-3 dated 18<sup>th</sup> Feb' 2017. Plant commenced Production on 19<sup>th</sup> Feb'2017.

The project proponent has stated with supporting documents that the name of the unit Alstom Industries, a partnership firm, has been changed to Alstom Industries Limited, a limited company, as per rule 3(2) of the Companies (Authorized to Register) Rules, 2014 read with section 366 under the provisions of Part-A Chapter XXI of the Companies Act, 2013, having its registered office at 4<sup>th</sup> Floor, Anil Plaza-II, ABC, G.S. Road, Guwahati, District – Kamrup, Assam, PIN -781005.

  
Chairman  
SEIAA, Assam

The proposed expansion is based on the following:

Sl No.	Particulars	Existing EC Capacity (1000 TPD / 0.3 MTPA)	Proposed Expansion (1540 TPD / 0.532 MTPA)
1	Plant Capacity	50 TPH (Guaranteed)	70 TPH (Optimised)
2	Daily Running Hours	20 hrs Per Day	22 hrs Per Day
3	Yearly Running Days	300 Days	345 Days
4.	Land	15 Bigha – 0 Katha -11 Lecha i.e. 20217 Square Meter (approx. 2.022 Hectares) Under possession of PP	No additional land required

500 MT Steel Fly ashes Silo equipped with high efficiency bag filter for control of fugitive dust emission. Fly-ash Feeding system: in-addition to the existing Mill Inlet feeding system, fly-ash feeding at Mill Outlet is provisioned.

Total Capital Cost for Environmental Pollution Control Measures incurred is Rs 4 Cr approx and Recurring Cost Per Annum will be around Rs 0.15 Cr.

The plant configuration has changed from the original 2 X 500 TPD to 1 X 1000 TPD. SEIAA on deliberation permitted the change in the configuration in line with the Amendment in EIA Notification, 2006 vide S.O.3518(E) date 23<sup>rd</sup> November, 2016.

For control of air pollution generated from the proposed plant, twin cyclone separator followed by reverse pulse jet type bag filter will be provided. The total water requirement for the proposed plant will be now 33 KLD which will be met from ground water source. There is no waste water generation due to the process. Domestic waste water (3.0 KLD) will be generated which will be discharged through septic tank and soak pit. The waste collected from control equipment's will be recycled in the process and the spent lube oil will be given to registered recyclers. The total power requirement for the proposed plant will be 2400 KW which will be supplied by ASEB, Assam. A DG set of 1200 KVA will be installed to meet the emergency power requirement.

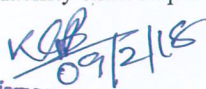
As per EIA Notification 2006 the aforesaid, project is listed at Sl. No 3 (b) of the schedule as category 'B' the proposal is examined all the relevant documents and the Compliance report along with the report of Stack emission and ambient air & noise level thoroughly by the members of the committee, in the meeting held on 10/08/2017 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.

#### A. SPECIFIC CONDITION

1. Cement grinding shall be carried out in closed cement mill and stack emission from various sources shall not exceed 30 mg/Nm<sup>3</sup>. As proposed, Cyclone separators followed by reverse pulse jet type bag filters shall be provided along with stacks of adequate height as per the CPCB guidelines to control gaseous emission below 30mg/Nm<sup>3</sup>. Stake of adequate height shall also be provided to DG sets.

2. Continuous monitoring system to monitor gaseous emission shall be provided and limit of SPM shall be controlled within 30 mg/Nm<sup>3</sup> in the cement plant by installing **adequate air pollution control** system. Interlocking facility shall be provided in the pollution control

  
 Chairman  
 SEIAA, Assam

equipment so that in the event of failure of APCDs, the respective process unit (s) is shut down automatically.

3. Ambient air quality monitoring stations (AAQMS) shall be setup as per statutory requirement is consultation with the SEIAA, Assam or PCB, Assam. Ambient air quality including ambient noise monitoring shall be carried out regularly and must not exceed the standards stipulated under EPA, 1986. Monitoring reports for ambient air, stack, and fugitive emissions shall be submitted to the SEIAA, Assam regional office MOEF at Shillong and PCB, Assam half yearly. Data on ambient air quality stack emission and fugitive emission shall be uploaded on the company's website.
4. The company shall install adequate dust collection and extraction system to control fugitive dust emission at various transfer points material handling (unloading, conveying, transporting stacking), vehicular movement bagging and packing areas etc. Crusher shall be operated with high efficiency bag filters. All conveyors shall be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyors 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.
5. Dust suppression by regular water sprinkling shall be carried out in cement plant 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, New Delhi in this regard.
6. Measures shall be taken to prevent impact of particulate emission/fugitive emission, if any from the plant on the surrounding area.
7. 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.
8. 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.
9. 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.
10. The gaseous emissions and particulate matter levels from various process units shall conform to the standard prescribed by the MOEF Govt. of India 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 restated until the desired efficiency has been achieved.
11. Total water requirement shall not exceed 33m<sup>3</sup>/day. '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.
12. The drawl of 33<sup>3</sup>/day water from ground water source shall be allowed.
13. Domestic effluent shall be treated in septic pits and soak pit in cement plant. All the treated waste water shall be used for gardening/agricultural purposes and dust suppression. Domestic waste shall be segregated in to bio-degradable and non-bio-degradable.

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Chairman 09/2/18  
SEIAA, Assam

Bio-degradable waste shall be composted and non-bio-degradable waste shall be disposed off in environment-friendly manner of filled at identified sites only after proper treatment.

14. Regular monitoring of ground water 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 , MOEFCC, Shillong and Central Ground Water Board.

15. Suitable conservation measures to augment ground water resources in the area shall be planned and implemented in consultation with Central Ground Water Board.

16. The project proponent shall take appropriate mitigation measures to prevent pollution of nearby river and other surface water body, if any.

17. All the bag filter dust, coal dust, and cement dust, from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Sludge generated during treatment of waste water 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 recycles/re-processors as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016 and Batteries (Management & Handling) Rules 2001.

18. Effort shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.

19. All the fly 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).

20. Rain water collected from the roof top shall be injected in to the ground through injection wells to recharge the ground water table.

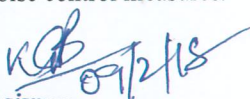
21. As proposed, green belt shall be developed in at least (33%) in project area as per the CPCB guidelines in consultation with local DFO to mitigate the impact of fugitive emissions. A long term action plan for the plantation/aforestation/green belt development etc., shall be prepared and submitted to the SEIAA, Assam and Regional Office of MOEF Shillong.

22. The project proponent shall take all precautionary measures during construction and operation phases for conservation and protection of flora & fauna. Action plan for green belt plantation shall be prepared and implemented in consultation with the State Forest 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 and Regional Office of MOEFCC Shillong.

23. Requisites on site & off site emergency plan shall be prepared in consultation with concerned authorities and implemented.

24. The project authority should strictly comply with the provisions made in Manufacture, Storage & Import of Hazardous Chemicals Rules 1989 as amended and the Public Liability Insurance Act for hazardous chemicals etc.

25. Acoustic enclosures shall be provided to control noise whenever necessary. Noise shall also be controlled from cooler fans, compressor house, cement mill, cement plant and additive crusher using appropriate noise control measures.

  
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26. 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.

27. Under Corporate Social Responsibility (CSR), sufficient budgetary provision shall be made for health improvement, education, electricity, water and other social economic upliftment in and around 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 PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> 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 wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May, 1993 and 31<sup>st</sup> 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 the 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 (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.

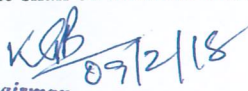
7. The company shall undertake Eco-development measures including community welfare measures in the project area.

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. The project authorities shall inform SEIAA, Assam as well as Regional Office of MOEFCC at Shillong the date financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work etc.

11. 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 copy of the same shall be forwarded to the SEIAA, Assam.

  
Chairman  
SEIAA, Assam

12. 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<sub>10</sub>/PM<sub>2.5</sub>), SO<sub>2</sub>,NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects shall be monitored and displayed at convenient location near the main gate of the company in the public domain.

13. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environment conditions including results of monitored data on 1 June and 1 December each year (Both in hard copies as well as in CD-ROM) to the SEIAA Assam with copies to the Regional Office of MOEFCC, Shillong. The SEIAA, Assam shall monitor the stipulated conditions mentioned in the Environment Clearance from time to time.

14. The environmental statement for each financial year ending 31<sup>st</sup> March in form-V as is mandated to be submitted by the project proponent 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 Office of the MOEFCC, Shillong by e-mail.

15. The SEIAA, Assam or any competent authority may stipulate any further conditions (S) on receiving reports from the project authorities. The above conditions will be monitored by SEIAA, Assam & Regional Office of the MOEF, Shillong.

16. The SEIAA, Assam may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.

17. Any other conditions or alternations or alternation in the above conditions will have to be implemented by the project authorities in a time bound manner.

18. The above conditions will be enforced, inter-alia under the provisions of the water (Prevention and the control of Pollution) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

*K.B. 09/2/18*

**Chairman**  
**SEIAA, Assam**  
**Bamunimaidam, Guwahati-21**  
**SEIAA, Assam**

Memo No. SEIAA.186/2014/EC/91

Dated: 09/02/2018

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, Panjabari, Guwahati-37 for favour of kind information.
3. The Member Secretary, P.C.B Assam for favour of kind information.
4. The Regional Office, MOEFCC, Govt of India, Low-u-sib, Lumbatngen, Near MTC Workshop, Shillong-793021 for favour of information.
5. Office file.

*Sd/-*

**Chairman**  
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**Chairman**  
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