



Date: 28.05.2024

To,  
The Member Secretary  
SEIAA, Assam,  
Ministry of Environment & Forest & Climate Change,  
Government of India  
Bamunimaidan, Guwahati, Assam-21

Sub. : Six Monthly Compliance Report of EC stipulations on Star Cement North East Limited at Village: Chamata Pathar, Kamrup District, Assam due for the period of October, 2023 to March, 2024.

Ref. : Environment Clearance Issued to Star Cement North East Limited's Guwahati Cement Grinding Unit by SEIAA vide proposal no. F.No. SIA/AS/IND1/407155/2022 dated 22<sup>nd</sup> November, 2022.

Dear Sir,

With reference to the above mentioned subject, we are submitting herewith the Six Monthly Compliance Report of the stipulated environmental conditions of environment clearance along with results of monitored data for the period of October, 2023 to March, 2024.

Thanking you,

Yours truly,

For Star Cement North East Limited

  
Authorized Signatory

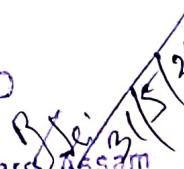
Encl. : As Above

Copy to : 1. Director, Ministry of Environment, Forest and  
Climate Change, Government of India  
Indira Paryavaran Bhawan, Jorhbag, New Delhi - 110003  
2. Additional Director & Zonal Officer,  
Central Pollution Control Board,  
North Eastern Zonal Office, Shillong - 793014  
3. Member Secretary  
Pollution Control Board, Assam  
4. ~~Addl. Chief Environment~~ Engineer, Regional Office  
Assam State Pollution Control Board, Assam  
5. The IRO, MOEF & CC, 4<sup>th</sup> Floor, Housefed Building, GS Road,  
Rukminigaon, Guwahati-22

Receipt

  
Regional Office, Guwahati  
Pollution Control Board, Assam  
Guwahati-21

RECEIVED

  
Pollution Control Board, Assam  
Bamunimaidan, Guwahati-21



**STAR CEMENT NORTH EAST LIMITED**

Delhi Office Unit No. DSM 515 to DSM 520, 5th Floor, DLF Tower, Shivaji Marg, Najafgarh Road, Delhi - 110015, Ph. 011 - 49805200 / 49805300, E-mail: delhi@starcement.co.in

Works : Gopinath Bordoloi Road, Village Chamatapahar, Dist - Kamrup (M) Guwahati - 782402, Assam, E-mail : ggu@starcement.co.in

Regd Office : Mayur Garden, 2nd Floor, opposite Rajiv Bhawan, G S Road, Guwahati, Kamrup, Assam 781005

CIN No. U26999AS2021PLC021391

Page | 1



| SL No.                        | Conditions  | Compliance Status<br>(Up to 31 <sup>st</sup> March, 2024)   |
|-------------------------------|---|---|
| <b>A. SPECIFIC CONDITIONS</b> |   |   |
| 1                             | As installed electrostatic precipitator (ESP) to clinker cooler and reverse air bag house to pre- calcinatory kiln and raw mill to control emission within the prescribed limit as per the new MOEF & CC standards wide GSR 162(E) dated 25.08.2014. Bag house/ big filters shall be provided to cement mill and packing plant to control SPM emission. Bag filters shall be provided to crushers, coal drying & grinding unit, hopper blinding silo/ kiln feed, raw mill hopper, cement silo, cement silo top, packing plant and at all other places including transfer points, venting axillaries etc. to reduce particulate matters. Performance study of the pollution control drives shall be conducted yearly to ensure their efficiency. | <p>Adequate Air pollution control equipment such as pulse jet bag filters are attached to stacks of cement mill and packing plants. Stacks of adequate height are maintained as per CPCB guidelines for proper dispersion of particulate matter.</p> <p>High efficient Polytetrafluoroethylene (PTFE) membrane jet bag filters are installed at cement silo tops, packing plant and at all other places including transfer points, venting axillaries etc. to reduce particulate matters.</p> <p>Performance study of the pollution control drives will be conducted yearly to ensure their efficiency.</p>   |
| 2                             | Continuous monitoring systems to monitor gaseous emission shall be provide and limit shall be confirming to the prescribed standard farmed by MOEF/CPCB by installing adequate air pollution control system. Data on ambient air quality, stack emission and fugitive emission shall be displayed in public domain and also regularly submitted online to the SEIAA, Assam & regional office MOEF at Shillong, and Central Pollution Control Board (CPCB) as well as hard copy once in six months.  | <p>The unit has installed continuous online monitoring equipment and online data transmitting process is ongoing. Digital environment display board has been installed at the main entrance to display ambient air quality, stack emissions. The ambient air quality data and stack emission monitoring data are found within standards stipulated under EPA/MoEF /CC/CPCB/SPCB.</p> <p>The Monitoring reports are enclosed for reference in <b>Annexure-II</b> as</p> <p><b>II (A)-Stack Monitoring Report</b><br/> <b>II (B)-Ambient Air Quality Monitoring Report.</b></p>   |
| 3                             | The company shall installed adequate dust collections and extraction system to control fugitive dust emission at varies transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movements, bagging and packing areas etc. Crusher shall be operated with 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 coals, cements, fly ash clinker shall be stored in silos. Pneumatic system shall be used for fly ash  | <p>The company is deploying water tankers for water sprinkling at loading, unloading areas, raw materials stock yards, cement loading areas.</p> <p>The company has installed water sprinkling system at road sides, materials transporting and stacking areas to control fugitive dust emission.</p> <p>Adequate air pollution control equipment such as pulse jet bag filters are attached to stacks of cement mill and Fly Ash Dryer. Stacks of adequate height are maintained as per CPCB guidelines for proper dispersion of particulate matter.</p> <p>The generated dust is being collected from all sources and recycled back to process.</p> |

**Delhi Office** Unit No. DSM 515 to DSM 520, 5th Floor, DLF Tower, Shivaji Marg, Najafgarh Road, Delhi - 110015, Ph. 011 - 49805200 / 49805300, E-mail: delhi@starcement.co.in

**Works :** Gopinath Bordoloi Road, Village Chamatapahar, Dist - Kamrup (M) Guwahati - 782402, Assam, E-mail : ggu@starcement.co.in

**Regd Office :** Mayur Garden, 2nd Floor, opposite Rajiv Bhawan, G S Road, Guwahati, Kamrup, Assam 781005

**CIN No. U26999AS2021PLC021391**



|   |  |   |
|---|--|---|
|   | handling.  | The raw materials viz. clinker, fly ash, gypsum, coal will be stored in covered sheds.<br>Finished products is being stored in silos.<br>Pneumatic system is 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 and such as haul road, loading and unloading points, transfer point and other vulnerably area to control fugitive emissions. Fugitive emission shall also be control by dust suppression and water sprinkling system. It shall be ensured that the ambient air quality parameters confirm to the norms prescribed by Central Pollution Control Board in this regard. | The company is using water tankers for water sprinkling at loading, haul road, unloading areas, raw materials stock yards, cement loading areas.<br><b>Photographs are attached as Annexure-III (A)</b><br><br>The company is using vacuum road sweeper machine for cleaning of roads.<br><b>Photographs are attached as Annexure-III (B)</b> |
| 5 | Effort shall be made to reduced impact of the transport of the raw materials and end products of the surroundings environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and should not be over loaded. Vehicular emission shall be regularly monitored.  | Raw materials and final products are being transported in covered containers.<br>Vehicle emission records are regularly maintained at the security main gate.   |
| 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 practiced issued by the CPCB shall be followed.   | Secondary fugitive emissions from all the sources is being controlled within the latest permissible limits issued by the ministry and regularly monitored. Guidelines/ code of practiced issued by the CPCB shall be followed.  |
| 7 | Effort shall be made to reduce impact of transport of the raw materials and end products of the surroundings 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 over loaded. Vehicular emissions shall be regularly monitored. Measure shall be taken for maintenance of vehicle used in mining operations and in transportation of mineral.  | Raw materials and final products are being transported in covered containers.<br>Vehicle emission records are regularly maintained at the security main gate.   |
| 8 | Asphalting/concreting of roads and water spray all around the critical areas prone to air pollution and having high level of SPM and RPM shall be ensured.   | Asphalting/concreting work of roads is in progress.<br><br>The company has deployed water tankers to sprinkle water around the dust prone areas.  |

**Delhi Office** Unit No. DSM 515 to DSM 520, 5th Floor, DLF Tower, Shivaji Marg, Najafgarh Road, Delhi - 110015, Ph. 011 - 49805200 / 49805300, E-mail: delhi@starcement.co.in

**Works :** Gopinath Bordoloi Road, Village Chamatapahar, Dist - Kamrup (M) Guwahati - 782402, Assam, E-mail : gguc@starcement.co.in

**Regd Office :** Mayur Garden, 2nd Floor, opposite Rajiv Bhawan, G S Road, Guwahati, Kamrup, Assam 781005

CIN No. U26999AS2021PLC021391

Page | 3



|    |  |   |
|----|--|---|
| 9  | Total water requirement from surface/ ground water sources shall not exceed 399 KLD. Water efficient technology shall be provided to conserved water. Treated water shall be used in dust suppression and greenbelt development etc. 'Zero' discharge shall be strictly adopted and no effluent shall be discharged.   | <p>The company will not exceed the permissible limits of ground water abstraction.</p> <p>The plant is designed on Zero effluent discharge concept. This concept is being implemented as there is no industrial effluent generated from the process.</p> <p>No wastewater will be discharged outside the plant premises.</p> <p>The treated wastewater will be utilized for green belt development and dust suppression. The STP sludge will be used as manure for green belt development.</p>  |
| 10 | 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-bio-degradable. Bio-degradable waste shall be composted and non-bio degradable shall disposed off in environment-friendly manner or field at identified sites only after proper treatment. | <p>The domestic wastewater generated from the plant will be treated in sewage treatment plant (STP).</p> <p>The treated wastewater will be utilized for green belt development and dust suppression. The STP sludge will be used as manure for green belt development.</p> <p>Domestic waste from colony and solid waste from industrial area will be segregated into bio degradable and non-bio-degradable. The bio degradable waste will be composted in vermi composting pits and non-bio degradable waste will be sold to authorized vendors.</p> |
| 11 | The project proponent shall ensure that no natural water course shall be obstructed due to any operations.   | <p>The plant is designed on Zero effluent discharge concept. This concept is being implemented as there is no industrial effluent generated from the process.</p> <p>No wastewater will be discharged outside the plant premises.</p>   |
| 12 | Suitable conservation measure to augment ground water resources in the area shall be planed and implemented in consultation with concerned authority.  | Rain water harvesting facilities (for roof top and surface runoff) will be provided in the plant to augment ground water resources.   |
| 13 | The project proponent shall take appropriate mitigation measure to prevent pollution of the nearby rivers and other surface water body, if any.  | <p>Will be complied.</p> <p>The plant is designed on Zero effluent discharge concept. This concept is being implemented as there is no industrial effluent generated from the process.</p>  |

**Delhi Office** Unit No. DSM 515 to DSM 520, 5th Floor, DLF Tower, Shivaji Marg, Najalgarh Road, Delhi - 110015, Ph. 011 - 49805200 / 49805300, E-mail: delhi@starcement.co.in

**Works** : Gopinath Bordoloi Road, Village Chamatapahar, Dist - Kamrup (M) Guwahati - 782402, Assam, E-mail : ggu@starcement.co.in

**Regd Office** : Mayur Garden, 2nd Floor, opposite Rajiv Bhawan, G S Road, Guwahati, Kamrup, Assam 781005

CIN No. U26999AS2021PLC021391



|    |   |   |
|----|---|---|
|    |   | No wastewater will be discharged outside the plant premises.  |
| 14 | All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycle and reuse in the process and use for cement manufacturing. Clay and shale generated as soil waste in the mine area shall be used for manufacturing clinker. Refectory bricks shall be sold to authorized agencies. ETP sludge shall be dried, compressed and used for land felling. Treated sewage shall be used as manure for greenbelt development. Waste oil, grease and scrap automobile batteries shall be provided to the authorized recycler/ preprocessors. | <p>All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices will be recycled and reused in the process and use for cement manufacturing.</p> <p>The treated wastewater will be utilized for green belt development and dust suppression. The STP sludge will be used as manure for green belt development.</p> <p>Waste oil, grease and scrap automobile batteries will be sold to authorized recycler or preprocessors.</p>  |
| 15 | An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.  | <p>The plant is only a cement grinding unit with a capacity of 2 MTPA, cement kiln is not available in the plant.</p> <p>Therefore, there is no provision for utilization of high calorific hazardous waste in cement kiln.</p> <p>If any possibility arises in future, the company will make provision to utilize the high calorie hazardous waste.</p>  |
| 16 | As proposed, greenbelt 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 emission. A long term plan for the plantation / afforestation / greenbelt development etc. shall be prepared and submitted to the SEIAA, Assam and Regional office of MOEF at Shillong and implemented.  | <p>The greenbelt has been developed in phases manner at present 350 number of trees has planted in boundary walls.</p> <ul style="list-style-type: none"> <li>• Total green area will be 4.3312 (33%) ha</li> <li>• Total no. of trees required at the rate of 2500 trees per hectare will be 10828 no.</li> <li>• No. of trees planted to be planted is 10900</li> <li>• Green belt development along with the plant boundary, in residential area and truck parking area will be done which will attenuate noise level, arrest dust and improve the surrounding environment.</li> <li>• Local species is being planted as per CPCB guidelines &amp; as recommended by DFO.</li> </ul> <p>The details of greenbelt development are enclosed as annexure-IV</p> |

## STAR CEMENT NORTH EAST LIMITED

**Delhi Office** Unit No. DSM 515 to DSM 520, 5th Floor, DLF Tower, Shivaji Marg, Najafgarh Road, Delhi - 110015, Ph. 011 - 49805200 / 49805300, E-mail: delhi@starcement.co.in

**Works :** Gopinath Bordoloi Road, Village Chamatapahar, Dist - Kamrup (M) Guwahati - 782402, Assam, E-mail : gg@starcement.co.in

**Regd Office :** Mayur Garden, 2nd Floor, opposite Rajiv Bhawan, G S Road, Guwahati, Kamrup, Assam 781005

**CIN No.** U26999AS2021PLC021391



|    |  |   |
|----|--|---|
| 17 | All the safety norms stipulated by the director general, mine and safety (DGMS) shall be implemented. On site and off site emergency plan shall be prepared in consultation with respective authorities and implement accordingly.   | On site and off site emergency plan have been prepared and implemented.<br><br><b>The Emergency Preparedness Plan is enclosed as Annexure-V</b>   |
| 18 | Consent to Operate shall be obtained from state pollution control board Assam.   | “Consent to Operate” reference no. PCBA/GUW/T-4587/22-23/103/3592 dated 1 <sup>st</sup> March, 2024<br><b>The CTO is enclosed as Annexure-I</b>   |
| 19 | Acoustic enclosures shall be provided to control noise where ever necessary. Noise shall be control from cooler fans, compressor house, cement mill and raw mill, cement mill using with appropriate noise control measures.   | Will be complied.<br>Noise will be controlled from compressor house, cement mill using with appropriate noise control measures.   |
| 20 | All the recommendations made in the charter and cooperate responsibility for environment protection (CREP) for the cement plant shall be implemented.  | All the CREP recommendations is being followed. The details are provided in <b>Annexure – VI</b> .  |
| 21 | The company shall comply with the commitment made during public consultation for the expansion project.  | The company is complying with the commitment made during the public consultation for the expansion project.   |
| 22 | The company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP , safe drinking water , medical health care etc. The housing may be in the form of temporary structure to be removed after the completion of the project. | The company had provided housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets with soak pits, safe drinking water, medical health care etc.<br>The temporary housing structure will 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.  | The project authority must be adhered to the stipulation made by state pollution control board, Assam and state government.  |
| 2 | No further expansion and modification of the plant shall be carried out without prior approval of SEIAA, Assam   | No further expansion and modification of the plant will be carried out without prior approval of SEIAA, Assam  |
| 3 | At least four ambient air quality monitoring station shall be establish in downward direction as well as where maximum ground level concentration of PM <sup>10</sup> , PM <sup>2.5</sup> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the state pollution control Board, Assam. | Four ambient air quality monitoring station has installed in downward direction as well as where maximum ground level concentration of PM <sup>10</sup> , PM <sup>2.5</sup> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the state pollution control Board, Assam. |

**Delhi Office** Unit No. DSM 515 to DSM 520, 5th Floor, DLF Tower, Shivaji Marg, Najafgarh Road, Delhi - 110015, Ph. 011 - 49805200 / 49805300, E-mail: delhi@starcement.co.in

**Works :** Gopinath Bordoloi Road, Village Chamatapahar, Dist - Kamrup (M) Guwahati - 782402, Assam, E-mail : ggu@starcement.co.in

**Regd Office :** Mayur Garden, 2nd Floor, opposite Rajiv Bhawan, G S Road, Guwahati, Kamrup, Assam 781005

CIN No. U26999AS2021PLC021391



|   |  |   |
|---|--|---|
|   | ambient air quality and stack emissions shall submitted to SEIAA, Assam including regional office MOEF at shilling and state pollution control board, Assam once in six month.   | Data or ambient air quality and stack emissions are enclosed as   |
| 4 | Industrial Waste water shall be properly collected and treated so as to confirm to the standards prescribed under GSR 422 (E dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or amended from time to time. The treated waste water shall be utilized to plantation purpose.   | <p>The plant is designed on Zero effluent discharge concept. This concept is being implemented as there is no industrial effluent generated from the process.</p> <p>No wastewater will be discharged outside the plant premises.</p>   |
| 5 | The overall noise level in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including aquatics hoods silencers enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under environment protection act,1986 rules 1989 viz, 75 dBA day time and 70 dBA night time. | The Ambient noise levels <75 dB (A) will be maintained below Standards prescribed by APCB/CPCB/MoEFCC.  |
| 6 | Proper housekeeping and adequate occupational health program must be taken up. Occupational health surveillance program shall be done on a regular basis and maintained records. The program must include function sputum analysis test once in six month.   | <ul style="list-style-type: none"> <li>• Mechanical sweeping machine has been deployed in plant area. Daily manual sweeping is also carried out. Colour code dust bins have been provided at various locations.</li> <li>• The personal working in the dust/noise prone areas have been provided with personal protective equipment (PPE) such as helmets, safety glasses, industrial grade gloves, safety harnesses, gum boots, nose masks and earmuffs.</li> <li>• Occupational health surveillance program will be conducted on a regular basis and maintained records. The program will be included function sputum analysis test once in six month.</li> </ul> |
| 7 | The company shall harvest the rain water from the roof tops and storm water drains for utilizing in the lean season besides recharging the ground water table.   | The company will harvest the rain water 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 measurement including community welfare measure in the project area.  | The company complies with all the eco-development measures including community development activities in the project area.  |
| 9 | The project proponent shall also comply with all the environmental protection measure and safeguards recommended in the EIA/EMP  | The company is complying with all the environmental protective measures & safeguards as per guidelines of State Pollution Control Board, Central Pollution Control Board & Ministry of  |



|    |   |  |
|----|---|--|
|    |   | Environment, Forest & Climate Change.  |
| 10 | A separate environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions shall be setup under the control of senior executive.   | The company has setup a separate environmental management cell under the control of a Senior Executive with an adequate laboratory facilities to carryout various management & monitoring functions.   |
| 11 | Rs. 13.55 crores spent towards capital cost and as proposed Rs. 1.34 crores earmarked towards recurring cost/ annum for the environmental protection measure and Rs. 1.35 crores for CSR activities for 5 years to implement the conditions stipulated by the SEIAA, Assam as well as the ministry and state government and submit implementation schedule for all conditions stipulated here in SEIAA, Assam. The funds so provide shall not be delivered for any other purpose. | Funds have been earmarked for Environmental pollution control. The fund is being used for environmental protection measures only and is not diverted for any other purpose.  |
| 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 7 days for the date of issue of the clearance letter at least into 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 and regional office , MOEF at Shillong.       | The company has informed the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Assam State Pollution Control. The Environmental Clearance information published in two local newspapers one in English and other is in Assamese.                                     |
| 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 home suggestion/representation if anywhere received while proposing the proposal. The clearance letter shall also be put on the website of the company by the proponent.  | Will be complied.  |
| 14 | The project proponent shall update the status of compliance of the stipulated Environment Clearance condition, including results of monitored data on their website and shall upload the same periodically. It shall simultaneously be send to the SEIAA , Assam, Regional Office regional office of the MOEF   | The company will update the status of compliance of the stipulated Environment Clearance condition, including results of monitored data on the website and will upload the same periodically.<br><br>Criteria pollution levels namely : PM (stack), PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> , ammonia levels as well as stack |

**Delhi Office** Unit No. DSM 515 to DSM 520, 5th Floor, DLF Tower, Shivaji Marg, Najafgarh Road, Delhi - 110015, Ph. 011 - 49805200 / 49805300, E-mail: delhi@starcement.co.in

**Works :** Gopinath Bordoloi Road, Village Chamatapahar, Dist - Kamrup (M) Guwahati - 782402, Assam, E-mail : ggu@starcement.co.in

**Regd Office :** Mayur Garden, 2nd Floor, opposite Rajiv Bhawan, G S Road, Guwahati, Kamrup, Assam 781005

CIN No. U26999AS2021PLC021391

Page | 8



# Pollution Control Board, Assam

(Department of Environment & Forests, Government of Assam)

অসম প্রদূষণ নিয়ন্ত্ৰণ পৰিষদ

(অসম চৰকাৰৰ বন আৰু পৰিৱেশ বিভাগ)

NABL Accredited Testing Laboratory : Certificate No. TC-11384



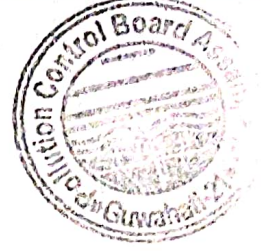
**LiFE**  
Lifestyle for Environment

No. PCBA/GUW/T-4587/22-23/103

3592

Dated Guwahati, the 01<sup>st</sup> March, 2024

## Consolidated Consent and Authorization (CCA)



To,

M/s. Star Cement North East Limited  
Gopinath Bordoloi Road, Chamta Pathar  
P.O- Sonapur, Kamrup (M), Assam-782402

Sub: Consolidated Consent and Authorization (CCA) granted under provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981 and the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 framed under the Environment (Protection) Act, 1986.

### I) CONSENT TO OPERATE

'**CONSENT TO OPERATE**' (CTO), under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974, as amended and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, as amended to-

- i) Name of the Unit : M/s. Star Cement North East Limited
- ii) Name of the Applicant and Designation : Sri Sitesh Johri, Factory Manager
- iii) Address of the Unit: : Gopinath Bordoloi Road, Chamta Pathar  
P.O- Sonapur, Kamrup (M), Assam-782402
- iv) Cost of the Unit: : Rs. 63000.00 Lakhs
- v) Type of the Unit: : Cement Grinding Unit  
(Red Category)
- vii) Details of Products:

| Sl No. | Name                            | Quantity/ Capacity (MTPA) |
|--------|---------------------------------|---------------------------|
| 1      | Portland Slag Cement            | 0.1                       |
| 2      | Portland Pozzolana Cement (PPC) | 1.6                       |
| 3      | Ordinary Portland Cement (OPC)  | 0.2                       |
| 4      | Composite Cement                | 0.1                       |

- viii) DG set : 1 x 500 KVA

### General Conditions:

- This Consent to Operate (CTO) has been accorded based on the particulars furnished by the applicant vide CCA Application ID 2434244 and subject to addition of further or more conditions if so warranted by subsequent developments. The Consent will automatically become invalid if any change or alteration or deviation is made in actual practice;
- The CTO will be valid till 31.03.2025.
- This CTO may be modified, suspended or withdrawn by the Board in whole or in part during its term for cause including, but not limited to the following:-
  - Violation of any Terms and Conditions of this CTO;
  - Obtaining the CTO by misrepresentation or failure to disclose fully all relevant facts;
  - If any genuine complaint received;

4. The unit shall apply for its renewal atleast ninety (90) days before expiry of the validity of this CTO.
5. The general and specific conditions of Environmental Clearance issued by the State Environment Impact Assessment Authority (SEIAA), Assam Vide F. No. SEIAA.3248/2022 dtd.04.01.2023 (Memo No. SEIAA.3248/2022/EC/1979 Dtd. 02.01.2023) shall be complied with.
6. The unit shall install a Display Board as per the Boards notification no. PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021 (Appendix-A)
7. Proper housekeeping shall be maintained. Burning of any solid waste inside the premises is prohibited.
8. The unit shall develop a greenbelt/plantation area with native trees only at least 33% of the total plot area.
9. The unit shall comply with all the environment protection measures and safeguards recommended in the EIA/EMP.
10. Environmental Statement in prescribed Form-V should be submitted on or before the 30<sup>th</sup> September every year.

### Specific Conditions:

#### A) Air Aspect:

##### 1. Source of Air Pollution and Control Device details:

| Sl No. | Unit              | Capacity           | APC Device | Chimney Height |
|--------|-------------------|--------------------|------------|----------------|
| 1      | Coal Mill         | 1 x 5 TPH          | Bag Filter | 40 m           |
| 2      | Cement Mill       | 1 x 285 TPH        |            | 62 m           |
| 3      | Packaging unit    | 3 x 240 TPH        |            | 35 m           |
| 4      | Fly Ash Drier     | 1 x 130 TPH        |            | 40 m           |
| 5      | Hot Air Generator | 20 Million Kcal/hr |            | 30 m           |

##### 2. The unit shall install the following measures for control of source and fugitive emission.

1. Dust containment cum suppression system at Raw Material Feed Hoppers, all the material transfer and dropping points.
2. Construction of the metallic roads within the premises.
3. Regular cleaning and water sprinkling at the ground and in the haul roads.

##### 3. Location of sampling port shall be provided as specified in CPCB guidelines for Emission Regulations (December 1985), Part-III (Appendix-B)

##### 4. The unit shall comply with the standards and guidelines for control of noise pollution from stationary Diesel Generator (DG) set, notified by the MoEF & CC, Govt. of India vide, GSR 7, dated Dec.22, 1998 (Appendix-C)

##### 5. The unit shall comply with the specific emission standards, notified by the MoEF & CC, Govt. of India, vide GSR. 612 (E) dated 25<sup>th</sup> August, 2014, as applicable for all its chimney emission (Part-A of Appendix-D)

##### 6. The unit shall comply with noise level standard, notified by the MoEF & CC, Govt. of India vide, GSR 7, dated Dec.22, 1998, as mentioned herein under-

| Limit in dB (A) Leq      |                            |
|--------------------------|----------------------------|
| Day Time (6:00am-9:00pm) | Night Time (9:00pm-6:00am) |
| 75                       | 70                         |

*Handwritten signature*

7. The unit shall comply to the National Ambient Air Quality Standards, notified by the MoEF & CC, GOI, vide GSR 826(E) dtd.16.11.2009, especially with respect to SO<sub>2</sub>, NO<sub>2</sub>, PM<sub>2.5</sub> and PM<sub>10</sub>, as mentioned herein under-

| Sl. No. | Pollutants                             | Time Weighted average | Concentration in Ambient Air (Industrial, Residential, Rural Areas) µg/m <sup>3</sup> |
|---------|--|-----------------------|---|
| 1.      | SO <sub>2</sub> (µg/m <sup>3</sup> )   | Annual<br>24 hours    | 50<br>80  |
| 2.      | NO <sub>2</sub> (µg/m <sup>3</sup> )   | Annual<br>24 hours    | 40<br>80  |
| 3.      | PM <sub>10</sub> (µg/m <sup>3</sup> )  | Annual<br>24 hours    | 60<br>100   |
| 4.      | PM <sub>2.5</sub> (µg/m <sup>3</sup> ) | Annual<br>24 hours    | 40<br>60  |

8. On-line Continuous Emission Monitoring System (OCEMS) for Particulate Matter (PM), emission shall be properly maintained and OCMMS RT-DAS data should be regularly transmitted to Pollution Control Board, Assam and Central Pollution Control Board.

9. Vehicle wheel washing system shall be installed at entry and exit gate of the factory.

**B) Water Aspect:**

- Details of source of water, consumption of water, effluent generation etc.
  - Water consumption : 368 KLD
  - Effluent generation : 47 KLD (Industrial-15 KLD and Domestic-32 KLD)
  - Capacity of ETP : 15 KLD
  - Permission of CGWA : Obtained.
- For discharge of treated water, the unit shall comply with specific standards, notified by the MoEF & CC, Govt. of India, vide GSR.612(E) dated 25<sup>th</sup> August, 2014 (Part-B of Appendix-D)
- The unit shall maintain 'Zero Liquid Discharge' condition.
- Storm water shall not be allowed to mix with effluent and/or floor washing.
  - Storm water within the battery limits shall be channelized through separate drain/pipe passing through a HDPE lined pit having holding capacity of 10 minutes (hourly average) of rainfall.
- A properly designed rain water harvesting pond shall be constructed to collect the entire run-off water, generated in the premises, as assured during the EIA/EMP presentation before SEAC meeting. Proper planning shall be made to use water from the pond for dust suppression in haul roads and other purposes like watering in plantations, etc.
- Fly-ash shall be kept in shedded storage yard.
- Domestic Wastewater generated from the factory and colony shall have to be treated in a Sewage Treatment Plant. This treated water shall be utilized in greenbelt development/spraying around the plant and colony.

**C) E-Waste Aspects:**

The unit shall comply with the provisions of the E-Waste (Management) Rules, 2022.

**D) Plastic Waste Aspect:**

- The unit shall apply for 'Registration' through the online centralized portal developed by CPCB (<https://www.cpcbepplastic.in>) immediately.
- The Unit shall implement EPR (Extended Producers Responsibility) and fulfill the EPR target as per the guidelines.
- Plastic Waste generated in the unit shall be quantified and disposed of in accordance of the provisions under the Plastic Waste Management Rules, 2016.
- The unit shall submit the Annual return under the Plastic Waste Management Rules, 2016 within 30<sup>th</sup> June every year.

**E) Solid Waste Aspect:**

1. Adequate facility shall be created for collection, storage, transportation, treatment and disposal of non-hazardous solid waste generated from the unit.
2. Adequate system shall be adopted on reduction of waste generation and enhancement of re-utilization and recycling of waste materials.
3. Solid waste generated in the unit shall be disposed of as per the provisions of the Solid Waste Management Rules, 2016.

The unit shall submit compliance report of the mandated conditions by April 15 of every year to Member Secretary, PCBA as well as to Regional Office, Guwahati, PCBA. The Board will have the liberty to withdraw the CTO, if adequate pollution control and safety measures are not implemented by the unit.

**II) Authorization under the Provision of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016**

|   |   |           |
|---|---|-----------|
| 1 | Reference of application (No.)  | : 2434244 |
| 2 | M/s. Star Cement North East Limited, Gopinath Bordoloi Road, Chamta Pathar P.O- Sonapur, Kamrup (M), Assam-782402 is hereby granted the Authorization for Generation, Storage and Disposal of the following Hazardous and Other wastes: |           |

**DETAILS OF AUTHORIZATION**

| Sl. No. | Category of Hazardous Waste as per the Schedules-I, III & IV of these rules  | Mode of Management/Disposal                              | Quantity          |
|---------|--|--|-------------------|
| 1       | Schedule-I, Sl.No.5.1: Used or spent oil                                     | Generation, Storage and disposal to registered recyclers | 4.5 KL/annum      |
| 2       | Schedule-I, Sl.No.5.2: Wastes or residues containing oil                     | Generation, Storage and disposal to registered recyclers | 0.2 MT/annum      |
| 3       | Schedule-IV, Sl.No.B3010:Solid Plastic Wastes                                | Generation, Storage and disposal to registered recyclers | 1800 MT/annum     |
| 4       | Schedule-I, Sl.No.35.1:Exhaust Air or Gas Cleaning residue                   | Generation, Storage and disposal to registered recyclers | 10 MT/annum       |
| 5       | Schedule-III, Part-A Sl.No.A1160:Waste Lead Acid Batteries, whole or crushed | Generation, Storage and disposal to registered recyclers | 200 Numbers/annum |

3. This Authorization shall be in force till **31.03.2025**.

4. The Authorization is subject to the following general and specific conditions:

**A. GENERAL CONDITIONS OF AUTHORIZATION:**

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The Authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.

3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this Authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty.
7. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of the Authorization shall be made as laid down under these Rules.
9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
10. Annual return shall be filed by June 30<sup>th</sup> for the period ensuring 31<sup>st</sup> March of the year.
11. The unit shall register on the 'National Hazardous Waste Tracking System' by logging in to the online portal (<https://geo.nic/nhwts>)

**B. SPECIFIC CONDITIONS:**

1. The unit shall maintain the records of Hazardous & Other Wastes in Form-3 under provision of Rules 6(5), 13(7), 14(6), 16(5) & 20(1).
2. The Transporter shall obtain the relevant information in Form-9 from the occupier/generator regarding the hazardous nature of the wastes and measures to be taken in case of an emergency
3. The unit shall submit Annual Returns in Form-4 to this Board by 30<sup>th</sup> June of every year for the preceding period April to March.
4. The occupier shall prepare 6 (six) copies of the manifest in Form-10 as per Rules-19(1) for every transit of consignment of hazardous waste under this authorization & the transporter/ collector should ensure implementation of the manifest system.
5. Any other conditions for compliance as per the guidelines issued by the Ministry of Environment, Forests & Climate Change, GOI. New-Delhi and Central Pollution Control Board, Delhi shall be complied.
6. Any occupier handling hazardous or other wastes and operator of the treatment, storage and disposal facility shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time. The labelling shall be done as per Form 8.
7. The unit shall submit the report on any accident occurs at their facility immediately to this Board, in Form-11 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
8. The transport of the hazardous and other waste shall be in accordance with the provisions of Rule 18 of Hazardous and Other waste (Management and Transboundary Movement) Rules, 2016.
9. The unit shall construct/ install impervious lining in the Waste storage area and prevent any possible seepage into the surrounding environment.
10. A display Board shall be installed at the entry gate in accordance with the Board's notification no. PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021.
11. The unit shall ensure submission of manifests to the Board.

  
(Shantanu Kr. Dutta)  
**Member Secretary**



**Pollution Control Board, Assam**  
**Bamunimaldam, Guwahati-21**

**NOTIFICATION**

Appendix-A



No. PCBA/LGL-95/2021/Notification/01

Dated Guwahati, the 11<sup>th</sup> Nov, 2021

In exercise of the powers conferred under Section-5 of the Environment (Protection) Act, 1986 as amended till date and keeping in view the need of public interest towards dissemination of vital information regarding Consent/Authorization of this Board, all industries are hereby directed to install a Display Board of minimum size 5'x4', near the main entrance gate.

The format of the display board is given below:

| Name and Address of the Unit : M/s.   |   |
|---|---|
| Description of Consent/Authorization  | Details                                     |
| Consent to Establish (CTE)  | No.:<br>Date of Issue:                      |
| Consent to Operate (CTO)  | No.:<br>Date of validity:                   |
| Authorization under Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016 (If applicable) | No.:<br>Date of Issue:<br>Date of validity: |

**Member Secretary**

Memo No. PCBA/LGL-95/2021/Notification/01-A  
Copy to:

Dated Guwahati, the 11<sup>th</sup> Nov, 2021

1. The Commissioner & Secretary to the Govt. of Assam, Department of Environment & Forest, Dispur for kind information.
2. P.A. to the Chairman, PCBA for kind appraisal of the Hon'ble Chairman.
3. The All Regional Heads, PCBA for information & necessary action.
4. M/S APS Advertising Pvt. Ltd, Guwahati-1. They are requested to publish the "NOTICE" in "the Assam Tribune" and "Dainandini Barta" on 12.11.2021.
5. Notice Board, Head Office / Website ([www.pcbassam.org](http://www.pcbassam.org)), PCBA.

**Member Secretary**

Location of sampling port as per CPCB's emission regulation guideline part-III

18



#### 2.5.0 Location of Sampling Port

To ensure laminar flow the sampling ports shall be located at atleast 8 times chimney diameter down stream and 2 times up stream from any flow disturbance. For a rectangular cross section the equivalent diameter ( $D_e$ ) shall be calculated from the following equation to determine up stream, down stream distances.

$$D_e = \frac{2LW}{L+W}$$

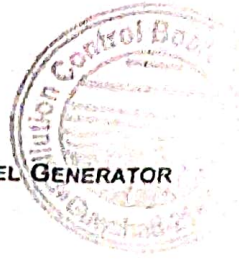
Where L = Length in m, W = width in m.

Sometimes it may so happen for existing chimneys that sufficient physical chimney height is not available for desired sampling location in such cases additional traverse points shall be taken as given under 2.4.0.

The sampling port should be preferably provided on the delivery side of duct or chimney and not on the suction side.

2

(1)  
**Appendix –C**



**1.66.0 STANDARDS AND GUIDELINES FOR CONTROL OF NOISE POLLUTION FROM STATIONARY DIESEL GENERATOR (DG) SETS.**

**(A) Notes standards for DG sets (15-500KVA)**

The total sound power level LW of DG set should less than  $94 + 10 \log 10\text{KVA}$ , dB (A), at the manufacturing stage, whether, KVA is the nominal power rating of a DG set.

This level should fall by 5dB (A) every five years, till 2007, i.e. in 2002 and then in 2007.

**(B) Mandatory Acoustic enclosure/Acoustic treatment of room for stationary DG sets (5KVA and above):**

Noise from the DG set should be controlled by providing an acoustic enclosure on by treating the room acoustically.

The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB (A) insertion Loss or for meeting the ambient noise standards, which ever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion Loss may be done at different points at 0.5 from the acoustic enclosure/room, and then averaged. (See the Schematic Diagram).

The DG set should also be provided with proper exhaust muffler with Insertion Loss of minimum 25 dB (A).

**Guidelines for the manufacturers Users of DG sets 5KVA and above:**

- ☐ The manufacture should offer to the user a standard acoustic enclosure of 25dB (A). Insertion Loss and also a suitable exhaust muffler with Insertion Loss of 25dB (A).
- ☐ The user should make efforts to bring down the noise levels due to the DG set, outside his premises, within the ambient noise requirements by proper siting and control measures.
- ☐ The manufacturer should furnish noise power levels of the unsalaried DG sets as per standards prescribed under (A).
- ☐ The total sound power level of a DG set, at the user's and, shall be within 2dB(A) of the total sound power level of the DG set, at the manufacturing stage, as prescribed under (A).
- ☐ Installation of DG set must be strictly in compliance with the recommendation of the DG set manufacture.
- ☐ A proper routines and preventive maintenance procedure for the DG set manufacturer which would help prevent noise levels of the DG set from deteriorating with use.

**2.44.0 NOISE (AMBIENT STANDARDS)**

| Area Code | Category of Area | Limit in dB (A) Leq. |            |
|-----------|------------------|----------------------|------------|
|           |                  | Day time             | Night time |
| A.        | Industrial area  | 75                   | 70         |
| B.        | Commercial area  | 65                   | 55         |
| C.        | Residential area | 55                   | 45         |
| D.        | Silence Zone     | 50                   | 40         |

**Note – 1** : Day time is reckoned in between 6.00 A.M. and 9.00 P.M.

**Note – 2** : Night time is reckoned in between 9.00P.M. and 6.00 A.M.

**Note – 3** : Silence zone is defined as areas up to 100 meters around such premises as hospitals, educational institutions and courts. The silence zones are to be declared by the competent Authority.

**Note – 4** : Mixed categories of areas should be declared as one of the four above mentioned categories by the competent Authority and the corresponding standard shall apply.

**Source: EPA, 1986**  
**[GSR 7, dated Dec.22, 1998]**

Source: EPA, Notification  
[GSR 1063 (E), dated Dec., 26, 1998]

### 3.22.0 DIESEL GENERATOR SETS : STACK HEIGHT

1. The minimum stack height to be provided with each generator set shall be worked out as per the following formula:-  $H = h + 0.2 \sqrt{\text{KVA}}$ , where  $H$  = Total height of stack in meter.

$h$  = Height of the building in meters where generator set is installed.

KVA = Total generator capacity.

Adequate fire fighting measures have to be provided by the occupier of the premises. Based on the above formula the minimum stack height to be provided with different range of generator sets may be categories as follows:

| Range of Generator sets | Minimum Stack Height             |
|-------------------------|----------------------------------|
| 50 KVA                  | Ht. of the building + 1.5 metre. |
| 50 - 100 KVA            | Ht. of the building + 2.0 metre. |
| 100 - 150 KVA           | Ht. of the building + 2.5 metre. |
| 150 - 200 KVA           | Ht. of the building + 3.0 metre. |
| 200 - 250 KVA           | Ht. of the building + 3.5 metre. |
| 250 - 300 KVA           | Ht. of the building + 3.5 metre. |

Similarly for higher KVA rating a stack height can be worked out using the above formula.

Source : Evolved by CPCB  
[Emission Regulations Part-IV: COINDS/26 1986-87]

### 4. A .32.0 Part - C

Sl. No. 1      Stack Gas : PM - 150  $\mu\text{g}/\text{Nm}^3$

#### B. Ambient Air Standards:

| Residential Area                               | Industrial Area                  | Sensitive Area                   |
|--|----------------------------------|----------------------------------|
| SO <sub>2</sub> : 80* $\mu\text{g}/\text{m}^3$ | 120* : $\mu\text{g}/\text{m}^3$  | 30* : $\mu\text{g}/\text{m}^3$   |
| NO <sub>2</sub> : 80* $\mu\text{g}/\text{m}^3$ | 120* : $\mu\text{g}/\text{m}^3$  | 30* : $\mu\text{g}/\text{m}^3$   |
| CO : 2.0** $\mu\text{g}/\text{m}^3$            | 5.0** : $\mu\text{g}/\text{m}^3$ | 1.0** : $\mu\text{g}/\text{m}^3$ |
| *24 hourly; ** 8 hourly                        |                                  |                                  |

### 5. SCHEMATIC DIAGRAM OF D.G. SET IN AN ACOUSTIC ENCLOSURE No. Process/71/1998-99.

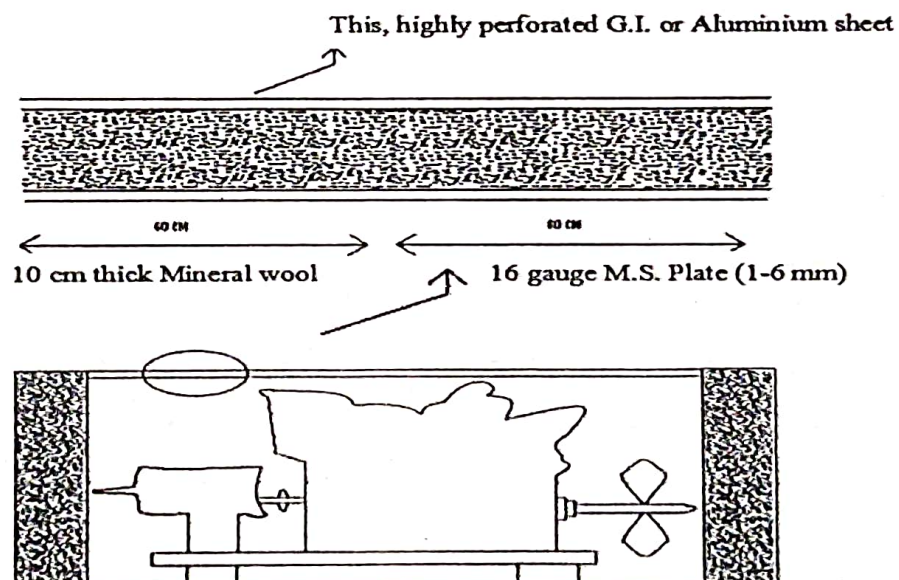


Fig. 4 Schematic Diagram of the DG set in an Acoustic Enclosure

Air required for the ventilation and breathing of the engine will have to be provided by means of intake louvers and exhaust louvers (called parallel baffle mufflers) projecting out of the enclosure.

(Shantanu Kr. Dutta)  
Member Secretary  
Pollution Control Board, Assam

## MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE

## NOTIFICATION

New Delhi, the 25th August, 2014

G.S.R. 612(E).— In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely :—

1. (1) These rules may be called the Environment (Protection) (Fifth Amendment) Rules, 2014.
- (2) They shall come into force on the date of their publication in the Official Gazette.
2. In the Environment (Protection) Rules, 1986,—
- (a) in Schedule I, for serial number 10 and entries relating thereto, the following serial number and entries shall be substituted, namely :—

| S. No. | Industry  | Parameter                              | Standards                            |                         |   |
|--------|---|--|--------------------------------------|-------------------------|---|
| (1)    | (2)   | (3)                                    | (4)                                  |                         |   |
| 10     | Cement Plant (without coprocessing), Standalone Clinker Grinding Plant or, Blending Plant | A.- Emission Standards                 |                                      |                         |   |
|        |   | (i) Rotary Kiln - without coprocessing |                                      |                         |   |
|        |   |  | Date of Commissioning                | Location                | Concentration not to exceed, in mg/ Nm <sup>3</sup> |
|        |   |  | (a)                                  | (b)                     | (c)   |
|        |   | Particulate Matter                     | on or after the date of notification | anywhere in the country | 30 (with effect from 01.01.2016)                    |

[भाग II-खण्ड 3(i)]

भारत का राजपत्र : असाधारण

5

|  |  |                                     |                                       |  |                                      |
|--|--|-------------------------------------|---------------------------------------|--|--------------------------------------|
|  |  |                                     | before the date of notification       | critically polluted area or urban centres with population above 1.0 lakh or within its periphery of 5.0 kilometre radius | 50<br>(with effect from 01.01.2015)  |
|  |  |                                     |                                       |  | 30<br>(with effect from 01.06.2016)  |
|  |  |                                     |                                       | other than critically polluted area or urban centres   | 100<br>(with effect from 01.01.2015) |
|  |  |                                     |                                       |  | 30<br>(with effect from 01.06.2016)  |
|  |  | Sulphur Dioxide (SO <sub>2</sub> )  | irrespective of date of commissioning | anywhere in the country  | 100                                  |
|  |  | Nitrogen Dioxide (NO <sub>2</sub> ) | on or after the date of notification  | anywhere in the country  | 600<br>(with effect from 01.06.2015) |
|  |  |                                     | before the date of notification       | anywhere in the country  | 800<br>(with effect from 01.01.2016) |

| (1) | (2) | (3)   | (4)                                  |  |                                      |
|-----|-----|---|--------------------------------------|--|--------------------------------------|
|     |     |   | (a)                                  | (b)  | (c)                                  |
|     |     | (ii) Vertical Shaft Kiln - (without coprocessing) |                                      |  |                                      |
|     |     | Particulate Matter (PM)                           | on or after the date of notification | anywhere in the country  | 50<br>(with effect from 01.06.2016)  |
|     |     |   | before the date of notification      | critically polluted area or urban Centres with population above 1.0 lakh or within its periphery of 5 kilometre radius | 100<br>(with effect from 01.06.2015) |
|     |     |   |                                      | other than critically polluted area or urban centres   | 75<br>(with effect from 01.06.2016)  |
|     |     | Sulphur Dioxide (SO <sub>2</sub> )                | -                                    | -  | 150<br>(with effect from 01.01.2015) |
|     |     | Nitrogen Dioxide (NO <sub>2</sub> )               | -                                    | -  | 200<br>(with effect from 01.01.2016) |
|     |     |   |                                      |  | 500<br>(with effect from 01.01.2016) |

3351 48/14-2

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
| <p>Note :—</p> <p>a. The height of each stack including Clinker Grinding Plant, Coal Mill, Raw Mill, Grinding, Packaging Section, etc. shall be of a minimum of 30 metres or, as per the formula <math>H=14(Q)^{0.75}</math>, whichever is more, where "H" is the height of stack in metres and "Q" is the maximum quantity of <math>SO_2</math> expected to be emitted in kg/hr through the stack at 100 per cent rated capacity of the plant and calculated as per the norms of gaseous emission.</p> <p>b. Above norms shall be applicable even if pet-coke is mixed with coal or, used alone for clinker making in kiln provided, pet-coke has been notified as 'approved fuel' by the concerned State Pollution Control Board/ Pollution Control Committee under the Air (Prevention and Control of Pollution) Act, 1981.</p> <p>c. All monitored values for <math>SO_2</math> and <math>NO_2</math> shall be corrected to 10% Oxygen, on dry basis. The norms for <math>SO_2</math> and <math>NO_2</math> shall be applicable to stacks attached to kiln.</p> <p>d. Scrubber meant for scrubbing emissions shall not be used as quencher. Plants having separate stack for gaseous emission for the scrubbing unit, the height of this stack shall be atleast equal to the main stack.</p> |  |  |  |  |  |



| (1) | (2) | (3)  | (4)  |
|-----|-----|--|--|
|     |     | <b>B.- Service wastewater- (without coprocessing)</b>  |  |
|     |     | All efforts shall be made by the industry for 'zero discharge' of service wastewater. In case, the industry prefers to discharge service wastewater, the following norms shall be complied with:   |  |
|     |     | Concentration not to exceed, milligramme per litre (except pH and temperature)   |  |
|     |     | pH   | 5.5 to 9.0   |
|     |     | Suspended Solids   | 100  |
|     |     | Oil and Grease   | 10   |
|     |     | Temperature  | not more than 5°C higher than the intake water temperature |
|     |     | <b>C.- Stormwater</b>  |  |
|     |     | (i) Stormwater shall not be allowed to mix with effluent, treated sewage, scrubber water and/ or floor washings.   |  |
|     |     | (ii) Stormwater within battery limits of industry shall be channelized through separate drain(s) as per natural gradient passing through high density polyethylene lined pit(s) each having holding capacity of 10 minutes (hourly average) of rainfall for its catchment area." |  |

[भाग II—खण्ड 3(1)]

भारत का एजपत्र : असाधारण

7

(b) in Schedule VI, under 'PART- D' relating to General Emission Standards, in item III relating to Load/Mass based standards, after serial number 9, and the entries relating thereto, the following serial number and entries shall be inserted, namely :—

| (1) | (2)                                  | (3)   | (4)  |
|-----|--------------------------------------|---|--|
| "10 | Cement Plants (without coprocessing) | Rotary kiln based plants (Particulate Matter from raw mill, kiln and pre-calciner system put together). | 0.125 Kg/ tonne of clinker (with effect from 01.01.2017)   |
|     |                                      | Vertical shaft kiln based plants (Particulate Matter from raw mill and kiln put together)               | 0.50 Kg/ tonne of clinker (with effect from 01.01.2017) ." |

[F. No. Q-15017/30/2007-CPW]

DR. RASHID HASAN, Advisor

Note:—The principal rules were published in the Gazette of India vide number S.O. 844 (E), 19<sup>th</sup> November, 1986 and subsequently amended vide notifications numbers S.O. 433 (E), dated 18th April 1987; G.S.R. 97 (E), dated the 18th February, 2009; G.S.R. 149 (E), dated the 4th March, 2009; G.S.R. 739 (E), dated the 9th September, 2010; G.S.R. 809(E), dated, the 4th October, 2010; G.S.R. 215 (E), dated the 15th March, 2011; G.S.R. 221(E), dated the 18th March, 2011; G.S.R. 354 (E), dated the 2nd May, 2011; G.S.R. 424 (E), dated the 1st June, 2011; G.S.R. 446 (E), dated the 13th June, 2011; G.S.R. 152 (E), dated the 16th March, 2012; G.S.R. 266(E), dated the 30th March, 2012; and G.S.R. 277 (E), dated the 31st March, 2012; and G.S.R. 820(E), dated the 9th November, 2012; G.S.R. 176 (E), dated the 18th March, 2013; G.S.R. 535(E), dated the 7th August, 2013; G.S.R. 771(E), dated the 11th December, 2013; G.S.R. 2(E), dated the 2nd January, 2014; G.S.R. 229 (E), dated the 28th March, 2014; G.S.R. 232(E), dated the 31st March, 2014; and G.S.R. 325(E), dated the 7th May, 2014.

CREP

# Compliance to Corporate Responsibility for Environmental Protection

(CREP)

| S. No. | Corporate Responsibility for Environmental Protection (CREP)  | Compliance to CREP   |
|--------|---|--|
| 1      | <p>Cement Plants, which are not complying* with notified standards, shall do the following to meet the standards:</p> <ul style="list-style-type: none"> <li>• Augmentation of existing Air Pollution Control Devices — by July 2003</li> <li>• Replacement of existing Air Pollution Control Devices — by July 2004</li> </ul> | <p>Star Cement North East Limited (SCNEL) will comply with notified standards.</p> <ul style="list-style-type: none"> <li>• The Grinding Unit will establish high efficiency Bag House and Bag Filters for Cement Mill and Coal Mill and other pollution control equipments were already installed in the plant to reduce the stack emission from various source so that it does not exceed 30 mg/Nm<sup>3</sup>.</li> <li>• The entire chimneys will establish with height as per CPCB guidelines.</li> <li>• Latest State -of- the- art technology Pollution Control Equipment (PCE) will be installed at all sections to control emission levels to the prescribed limits.</li> <li>• Interlocking facility will be provided, so that in the event of failure of any pollution control equipment adopted by the unit, the unit shall be immediately put out of operation and the respective unit is shut down automatically.</li> </ul> |
| 2      | Cement Plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100 mg/Nm <sup>3</sup> limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm <sup>3</sup> .   | The location of the Grinding Unit is neither in critically polluted area nor in urban area. However, the unit will establish Air Pollution Control equipment with particulate emission of less than 30mg/Nm <sup>3</sup> .   |
| 3      | The new cement kilns to be accorded NOC/Environmental Clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/Nm <sup>3</sup> for particulate matter emissions.  | Not Applicable to this project as the unit is a Clinker Grinding Unit.   |
| 4      | CPCB will evolve load based standards by December 2003.   | The Grinding Unit will comply with load based standards.   |
| 5      | CPCB and NCBM will evolve SO <sub>2</sub> and NO <sub>x</sub> emission standards by June 2004.  | The unit will comply with SO <sub>2</sub> and NO <sub>x</sub> emission standards as per MoEFCC standards and its subsequent amendments.  |

|    |   |  |
|----|---|--|
| 6  | The Cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit its recommendations within three months. | The Grinding Unit will implement pollution control measures to control fugitive emissions from all the sections such as unloading section, material handling section including transfer points, clinker storage section etc., by putting these facilities in closed circuit and installation of pulse jet bag filters.   |
| 7  | CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003.  | N/A  |
| 8  | After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003.                       | <ul style="list-style-type: none"> <li>The unit will has installed continuous online monitoring equipment and the online data transmitting process is under progress.</li> </ul>   |
| 9  | Trippings in kiln ESP to be minimized by July 2003 as per the recommendation of NTF.  | Not Applicable to this project as the unit is a Clinker Grinding Unit.   |
| 10 | Industries will submit the target date to enhance the utilization of waste material by April 2003.  | <p>The Grinding Unit will utilize the waste material such as domestic solid waste and used lube oil in the plant is being sold to authorized vendors.</p> <ul style="list-style-type: none"> <li>Installation of Sewage Treatment Plant (STP) is under progress in the plant as stipulated.</li> <li>We will install dust bins in front of our residential colony and industry area.</li> <li>Generated all the municipal solid waste for residential colony and industry will disposed</li> </ul> |

|    |   |   |
|----|---|---|
|    |   | off.  |
| 11 | NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.                                 | Not Applicable as the project is Clinker Grinding Unit.   |
| 12 | Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003. | Not Applicable as the project is a Clinker Grinding Unit. |

\* Non complying units shall give bank guarantee to respective SPCBs.



Recognized by Pollution Control Board, Assam

**STACK ANALYSIS REPORT**

**TEST REPORT**

Rep.No. SAR\_14030224\_01\_586(G)  
SAMPLE ID: EETNE/MAR/10/24

Date: 17/03/2024  
ULR NO.: TC76692400000138(A)F

Issued to : M/s. Star Cement North East Ltd.  
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,  
Dist: Kamrup(M), Assam.

Sample Drawn By : UTPAL BEZBARUAH  
Sampling Plan & Procedure : EETNE/SOP/01  
Analysis Duration : 11/03/2024 TO 13/03/2024  
Sampling Instrument Used : STACK SAMPLER/STACK KIT  
Pollution Control Device, if any : YES/NO

| SL. NO. | DATE OF SAMPLING | STACK DESCRIPTION             | PARAMETERS                               | REMARKS   |
|---------|------------------|-------------------------------|--|---|
|         |                  |                               | Particulate Matter (mg/Nm <sup>3</sup> ) |   |
| i)      | 11/03/2024       | Stack attached to CEMENT MILL | 28.3                                     | - Bag filter is attached to Cement mill.<br>- 50% bag house is replaced to mitigate the effect of particulate matter. |

Method of analysis: IS 11255 Part-I

**Emission Standards :**

| Category of Industry | Parameter          | Standards            |
|----------------------|--------------------|----------------------|
| Cement               | Particulate-matter | 30mg/Nm <sup>3</sup> |

Khairul Islam Sheikh  
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati

Utpal Bezbaruah  
(Technical Manager)  
Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.  
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----



Recognized by Pollution Control Board, Assam

### TEST REPORT

#### AMBIENT AIR ANALYSIS REPORT

Rep.No. AAAR\_14030224\_01\_586(F)

SAMPLE ID: EETNE/MAR/10/24

Date: 17/03/2024

ULR NO.:TC76692400000138(A)F

Issued to : M/s. Star Cement North East Ltd.  
Gopinath Bordoloi Road, Village: Chamatapathar, Guwahati-782402,  
Dist:Kamrup(M),Assam.

Sample Drawn By : UTPAL BEZBARUAH  
Sampling Plan & Procedure : EETNE/SOP/01  
Analysis Duration : 11/03/2024, 12/03/2024 TO 17/03/2024  
Sampling Instrument Used : AMBIENT AIR SAMPLER/RDS  
Pollution Control Device, if any : YES/NO

| SL. NO. | DATE OF SAMPLING | LOCATION/ SOURCE             | WEATHER | PARAMETERS                                       |   |   |   |
|---------|------------------|------------------------------|---------|--|---|---|---|
|         |                  |                              |         | PM <sub>10</sub><br>( $\mu\text{g}/\text{m}^3$ ) | PM <sub>2.5</sub><br>( $\mu\text{g}/\text{m}^3$ ) | NO <sub>2</sub><br>( $\mu\text{g}/\text{m}^3$ ) | SO <sub>2</sub><br>( $\mu\text{g}/\text{m}^3$ ) |
| i)      | 11/03/2024       | Near Truck Tippler           | Clear   | 60.4   | 35.7  | 18.4  | 11.6  |
| ii)     |                  | Near Packing Plant           |         | 62.7   | 33.5  | 22.5  | 11.3  |
| iii)    | 12/03/2024       | Near CCR ( Line 1 )          |         | 55.7   | 34.9  | 17.3  | 12.9  |
| iv)     |                  | Near Administrative Building |         | 60.4   | 33.7  | 22.6  | 11.6  |

Remarks: - Parameters are within the permissible limit.  
:- Sampling were done under the annual based.

#### NATIONAL AMBIENT AIR QUALITY STANDARDS:

| SL. No. | Pollutant   | Test Method              | Time Weighted Average | Concentration in Ambient Air                  |
|---------|---|--------------------------|-----------------------|---|
|         |   |                          |                       | Industrial, Residential, Rural and Other Area |
| 1       | Sulphur Dioxide (SO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$      | IS:5182 Part-II/ CPCB    | Annual                | 50  |
| 2       | Nitrogen Dioxide (NO <sub>2</sub> ), $\mu\text{g}/\text{m}^3$     | IS:5182 Part-VI/ CPCB    | Annual                | 80  |
| 3       | Particulate Matter (PM <sub>10</sub> ), $\mu\text{g}/\text{m}^3$  | IS:5182 Part-XXIII/ CPCB | Annual                | 40  |
| 4       | Particulate Matter (PM <sub>2.5</sub> ), $\mu\text{g}/\text{m}^3$ | EETNE/SOP/01/2017        | Annual                | 60  |
|         |   |                          | 24 hours              | 100   |
|         |   |                          | 24 hours              | 40  |
|         |   |                          | 24 hours              | 60  |

Khairul Islam Sheikh  
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati

Utpal Bezbaruah  
(Technical Manager)

Authorized /Reviewed by

Note: i) The results relate to the tested parameters & items sample.  
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

END OF REPORT

---

**ANNEXURE-III (A)**

**Photographs of water sprinkling with water tank at  
loading and unloading points.**





---

**ANNEXURE-III(B)**

**Photographs of road sweeper machine during cleaning of loading and unloading points.**





**Greenbelt Development Details**

### Greenbelt Development Details

| Sl.No       | YEAR                         | TYPE            | NO. of Plant Planted, | Species of Plant Planted,   |
|-------------|------------------------------|-----------------|-----------------------|---|
| 1           | February 2024 to April, 2024 | Trees           | 350                   | Kadam, Neem ,Krishana sura, Ashoka, Mango, Litchi, Radha sura, Emily, Jamun, Sonaru, Gomari, Nahar, Chandan ,Teek, Amlokhi, Silikha, Guava,etc. |
|             |                              | Seasonal Flower | 120                   | Calendula,Sunflower, Cineraria, Marigold, Hasnahana, Pelocia, Gagonia, Rose, Dahalia, Madhabilota, Bottle Plam, Vogan vila etc.                 |
|             |                              | Shurbs          | 155                   | Duranta, Hamilia, Nerium, Murrya, Acalypha etc.   |
|             |                              | Grass           | 950 sq meter          | Carpet Grass & Local Grass.   |
| Total Trees |                              |                 | 350                   |   |

## Photographs of Greenbelt Development



## Photographs of Greenbelt Development



## Photographs of Greenbelt Development

