

**COMPLIANCE REPORT OF ENVIRONMENTAL  
CLEARANCE  
FOR THE PERIOD OF OCTOBER-2018 TO  
MARCH-2019**

**F. NO. SEIAA/165/2014/EC/22**

**SUBMITTED BY-**

**M/S JOYSHREE CEMENT INDUSTRIES**

**H/N-62, BY LANE- 2, TARUN NAGAR, G.S ROAD  
GUWAHATI-781005, ASSAM**

**Name of The Company :** M/s Joyshree Cement Industries

**Project :** Cement Grinding Unit (300 TPD OPC/PPC) at Dag no. 12, 15 & 17 of Patta No. 201 at Village- Sila, Laxmi Nagar, Changsari Mouza- Sila Sinduri Gupha of kamrup (R) District, Assam.

**Environmental Clearance Letter :** F. No. SEIAA/165/2014/EC/22, Dated 2<sup>nd</sup> March 2015.

**A - SPECIFIC CONDITIONS**

| SN. | EC CONDITIONS   | COMPLIANCE STATUS   |
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| 1.  | Consent to Establish shall be obtained from Pollution Control Board, Assam and copy of the same shall be submitted to SEIAA, Assam.   | Consent to establish is obtained from Pollution Control Board, Assam under air act, 1981 and water act, 1981 has been obtained vide letter no. WB/GUW/T-2899/15-16/110/324 dtd 8/6/2015. The copy of the same already submitted to SEIAA, Assam.  |
| 2.  | Cement grinding shall be carried out in closed cement mill and stack emission from various sources shall not exceed 50mg/Nm <sup>3</sup> . As proposed, cyclone separators followed by reverse pulse jet type bag filters shall be provided alongwith stacks of adequate height as per the CPCB guidelines to control gaseous emission below 50mg/Nm <sup>3</sup> . Stack of adequate height shall also be provided to DG sets.   | Pulse Jet type Bag filter installed at grinding section to restrict Stack emission within prescribed limit i.e 30 mg/Nm <sup>3</sup> . Height of DG Stack is constructed as per CPCB norms. Monitoring results are given in <b>Annexure-I</b> .   |
| 3.  | Continuous monitoring system to monitor gaseous emission shall be provided and limit of SPM shall be controlled within 50mg/Nm <sup>3</sup> in the cement plant by installing adequate air pollution control system. Interlocking facility shall be provided in the pollution control equipment so that in the event of failure of APCDs, the respective process unit (s) is shut down automatically.   | Continuous stack monitoring system (opacity meter) is installed and data is transferred to CPCB. We have installed reverse pulse jet type bag filter to control air pollution in grinding Section. Interlocking facility is also provided in the pollution control equipment so that event of failure device the process unit is automatically shut down.                       |
| 4.  | Ambient air quality monitoring stations (AAQMS) shall be set up as per statutory requirement in 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. | Ambient air quality monitoring station (AAQMS) is set up in consultation with Pollution Control Board Assam vide letter no. WB/LB-81/AMB/09-10/156/267 dtd 12 <sup>th</sup> May, 2015. Ambient air quality including ambient noise is being monitored by Assam Pollution Control Board authorized, NABL accredited firm. Monitoring reports are enclosed as <b>Annexure-I</b> . |

| SN. | EC CONDITIONS   | COMPLIANCE STATUS   |
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|     |   | <p>Monitoring values are within the norms. Monitoring reports for ambient air, stack and fugitive emissions is submitted to MoEF, APCB and SEIAA the competent authorities.</p> <p>Monitoring data is uploaded in our company's website i.e <a href="http://www.galaxycement.com">www.galaxycement.com</a></p>  |
| 5.  | <p>The company shall install adequate dust collection and extraction system to control fugitive dust emission at various transfer points, raw mill handling (unloading, conveying, transporting, stacking). Vehicular movement, bagging and packing areas etc. Crusher shall be operated with high efficiency bag filters. All conveyers shall be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.</p> | <p>We have provided the pulse jet type bag filter system to control the fugitive emission. Raw materials are stored in the covered area.</p> <p>All the conveyors are underground.</p> <p>Pneumatic system is used for fly ash bulker unloading area.</p>   |
| 6.  | <p>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 Board in this regard.</p>  | <p>Water sprinkling is being carried out in loading and unloading point, transfer point along with internal road in the plant to mitigate the effect of air pollution and fugitive emission.</p> <p>Ambient air quality parameters conform to the CPCB norms. Monitoring reports of ambient air quality and fugitive emission are enclosed vide <b>Annexure-I.</b></p>    |
| 7.  | <p>Measures shall be taken to prevent impact of particulate emission/ fugitive emission, if any from the proposed plant on the surrounding area.</p>  | <p>Appropriate measures like installation of adequate pulse jet type bag filter, sprinkling of water, plantation, raw materials are covered by AC sheet, Bag filter is cleaned, and maintenance of air pollution control equipments etc is being taken to mitigate the impact of particulate emission / fugitive emission.</p>  |
| 8.  | <p>Efforts shall be made to reduce impact of the transfer of the raw materials and end products on the surrounding environment including agriculture 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.</p>  | <p>Noted and being complied.</p> <p>We have taken all the necessary measures to reduce the emission during transportation of raw material and end product. Fly ash is transported in closed vehicle and it is loaded as per its capacity. Good condition vehicles having PUC certificate is being used in our plant. Copy of the same enclosed as <b>Annexure II.</b></p> |

| SN. | EC CONDITIONS  | COMPLIANCE STATUS   |
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| 9.  | Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/ Code of Practice issued by the CPCB shall be followed.  | Point is noted and being complied. Fugitive emission from all sources is controlled by using pulse jet type bag filters, water sprinkling arrangement etc Adequate sapling of plant is grown in our plant to control the fugitive emission. Monitoring reports are given in <b>Annexure-I.</b>  |
| 10. | Asphalting/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.  | Complied with. Concreting of roads already done. Water sprinkling is done on regular basis in critical areas having high levels of SPM and RPM to control air pollution.  |
| 11. | The gaseous emissions and particulate matter levels from various process units shall conform to the standards prescribed by the MoEF Govt. Of India from time to time. At no 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. | It is being complied. The gaseous emission and particulate matter level always confirm to standards fixed by CPCB and the Ambient Air monitoring report is enclosed vide <b>Annexure-I.</b> Interlocking system of equipment is chosen in such a way that the failure of any pollution control system immediately put out of operation. |
| 12. | Total water requirement shall not exceed 3m <sup>3</sup> /day. Water efficient technology like air-cooled condenser to captive power plant shall be provided to conserve water. The treated effluent shall be recycled/ reused in plant related activities i.e cooling, dust suppression and green belt development etc. "Zero" discharge shall be strictly adopted and no effluent shall be discharged from the cement plant, outside the premises to any nearby water body/ river etc.                           | Noted and being complied. Total water requirement does not exceed 3 m <sup>3</sup> /day. Being a Zero discharge unit industrial wastewater is not generated. No effluent is discharged outside the premises.  |
| 13. | The drawl of 15m <sup>3</sup> /day water from ground water sources shall be allowed.   | Noted and Agreed with.  |
| 14. | Domestic effluent shall be treated in septic pits and soak pit in cement plant. All treated waste water shall be used for gardening/ agricultural purposes and dust suppression. Domestic waste shall be segregated into bio-degradable and non-biodegradable. Bio-degradable waste shall be composted and non- biodegradable waste shall be disposed off in environment-friendly manner or filled at identified sites only after proper treatment.  | Domestic waste water is treated in soak pit. Treated water is used for dust suppression and green belt development. Domestic solid wastes are segregated into bio-degradable and non-biodegradable waste.   |
| 15. | Regular monitoring of ground water level shall be carried out a network of existing wells. The frequency of monitoring shall be four times a year-pre-monsoon (April/ May), monsoon (August), post-monsoon (November) and winter (January). Data thus collected shall be sent at regular intervals to SEIAA, Assam and Regional Office, MoEF, Shillong and Central Ground Water Board.   | Noted and being complied.   |

| SN. | EC CONDITIONS  | COMPLIANCE STATUS  |
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| 16. | Suitable conservation measures to augment ground water resources in the area shall be planned and implemented in consultation with Central Ground Water Board.   | Agreed with.   |
| 17. | The project proponent shall take appropriate mitigation measures to prevent pollution of nearby river and other surface water body, if any.  | Point is Noted.  |
| 18. | All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. 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 recyclers/ reprocessors as per Hazardous wastes (Management, Handling & Transboundary Movement) Rules 2008 and Batteries (Management & Handling) Rules 2001. | Dust collected from various pollution control devices are recycled and reused in the cement manufacturing process. Waste oil, grease and scrapped automobile batteries are sold to the authorized recyclers/ reprocessors as per Hazardous wastes (Management, Handling & Transboundary Movement) Rules 2008 and Batteries (Management & Handling) Rules 2001. |
| 19. | An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.   | Not applicable.  |
| 20. | Effort shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.  | Point is noted and being complied. We use low grade lime, more fly ash is used in the cement manufacturing process.  |
| 21. | All the fly ash shall be utilized as per Fly Ash Notification, 1999 subsequently amended in 2003. Efforts shall be made to use fly ash maximum in making Pozollona Portland Cement (PPC).  | Agreed with.   |
| 22. | Rain water collected from the roof top shall be injected into the ground through injection wells to recharge the ground water table.   | Rainwater harvesting structure is developed to recharge the ground water.  |
| 23. | As proposed, green belt shall be developed in at least (33%) in project area as per the CPCB guidelines in consultation with local DFO to mitigate the impact of fugitive emissions. A long term action plan for the plantation/ A forestation/green belt development etc. shall be prepared and submitted to the SEIAA, Assam and Regional Office of MoEF Shillong.   | Green belt is developed in consultation with DFO. An application was given to DFO regarding development of green belt inside our plant premises vide our letter no. Nil dtd 25 <sup>th</sup> May 2016. Plantation is being done to mitigate air/ fugitive/ noise pollution.  |
| 24. | The project proponent shall take all precautionary measures during construction & operation phases for conservation and protection of flora & Fauna. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with State Forest and Wildlife Department. Necessary allocation of funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the SEIAA, Assam & Regional office of MoEF Shillong within 3 months from the date of issue of this letter.   | Not applicable in our case. But if required we will consult State Forest and Wildlife Department.  |
| 25. | Rehabilitation and Resettlement Plan for the project affected population including tribal as per the policy of the State Govt.   | Point is noted.  |

| <b>SN.</b> | <b>EC CONDITIONS</b>   | <b>COMPLIANCE STATUS</b>   |
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|            | Shall be implemented. Compensation paid in any case shall not be less than the norms prescribed under the National Resettlement and Rehabilitation Policy, 2007.   |  |
| 26.        | All the safety norms stipulated by the Director General, Mine & Safety (DGMS) shall be implemented.  | We are complying all the Safety norms stipulated by Director General, Mine & Safety (DGMS).  |
| 27.        | Requisite on site & off site emergency plan shall be prepared in consultation with concerned authorities and implemented.  | Point is noted.  |
| 28.        | The project authority should strictly comply the provisions made in Manufacture, Storage & Import of Hazardous Chemicals Rules 1989 as amended and the Public Liability Insurance Act for hazardous chemicals etc.   | Agreed with.   |
| 29.        | Acoustic enclosures shall be provided to control noise whenever necessary. Noise shall also be controlled from cooler fans, compressor house, cement mill and raw mill, cement plant using appropriate noise control measures.   | DG sets have proper stack height and acoustic enclosures to mitigate the noise pollution. Noise generates from compressor house and DG set in cement plant is controlled by providing acoustic enclosures etc. Monitoring reports are enclosed as <b>Annexure-I.</b> |
| 30.        | 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. | Complied with.   |
| 31.        | Under Corporate Social Responsibility (CSR) sufficient budgetary provision shall be made for health improvement, education, electricity, water and other socio economic up-liftmen in and around the project area.   | Under Corporate Social Responsibility scheme (CSR) sufficient budgetary provision is being allocated. Copy of the CSR budget is already sent to MoEF.  |

#### **B. GENERAL CONDITIONS**

| <b>SN.</b> | <b>EC CONDITIONS</b>  | <b>COMPLIANCE STATUS</b>  |
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| 1.         | The project authorities must adhere to the stipulations made by State Government of Assam.                          | We are complying with all the stipulations made by Pollution Control Board, Assam. Consent to operate for the year 2017-2018 for the Air (Prevention and Control of Pollution) Act 1981 for the plant & 1 No. of DG was obtained vide letter no. WB/GUW/T-2899/15-16/156/2030 Dated 31/03/2017. |
| 2.         | No further expansion or modification in the project shall be carried out without prior approval of the SEIAA Assam. | Agreed with. Prior approval of the SEIAA will be taken for further expansion or modification in the project, if   |

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|    |   | any.  |
| 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 of 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. | Three Ambient air quality monitoring locations are set up in consultation with Pollution Control Board Assam vide letter no. WB/LB-81/AMB/09-10/156/267 dtd 12 <sup>th</sup> May, 2015. Monitoring reports of ambient air quality are enclosed vide <b>Annexure-I</b> . Monitoring reports of air quality and stack emission is submitted herewith to MoEF, SEIAA and PCB.  |
| 4. | Industrial waste water 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.  | Agreed with. Industrial waste water is not generated since it is a zero discharge unit.   |
| 5. | The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rues, 1989 viz 75 dBA (day time) and 70dBA (night time).  | We have undertaken all the measures like providing acoustic enclosures etc. on all sources of noise generation. Ambient noise and DG noise are within limit. Refer monitoring reports enclosed as <b>Annexure-I</b> .   |
| 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 including lung function and sputum analysis test once in six months.   | The company has tied up with a doctor for Occupational Health Surveillance programme. Records of Occupational Health Surveillance of our workers is enclosed vide <b>Annexure - III</b> .   |
| 7. | The company shall undertake eco- development measures including community welfare measures in the project area.   | We undertake following Eco-development measures in and around our Plant: <ol style="list-style-type: none"> <li>1. Regular supply of Electricity and drinking water to the nearest Lakshmi Temple.</li> <li>2. Renovation of Lakshminagar L.P.School near our plant.</li> <li>3. Organized reforestation and afforestation program in association with Forest department.</li> <li>4. Creating social awareness for tree plantation.</li> <li>5. Distribute sapling to the community people.</li> </ol> |

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|     |   | <p>6. Planting local species of tree near the factory.</p> <p>7. Celebration of World Environment Day.</p> <p>8. Awareness program in the community regarding conservation of water.</p> <p>9. Safe drinking water facility provided in local schools and nearby village.</p>        |
| 8.  | The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.   | Agreed with.   |
| 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.  | We are going to establish a separate environmental management cell. We are already availing the service of Assam Pollution Control Board recognised and NABL accredited monitoring agency for the routine environmental monitoring services.   |
| 10. | The project Authorities shall inform SEIAA, Assam as well as Regional Office, MoEF at Shillong the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work etc.   | <p>Date of financial closure is 31<sup>st</sup> March every year.</p> <p>Date of land development work on 8<sup>th</sup> June' 2015 onwards.</p> <p>Date of commencing the production is 3<sup>rd</sup> Feb' 2016.</p>   |
| 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 a copy of the same shall be forwarded to the SEIAA, Assam.   | We have already complied it. Public notice is published in News Paper "The Eastern Chronicle" dtd. 10 <sup>th</sup> March/2015 in English and "The Niyomiya Batra" dtd. 10 <sup>th</sup> March/2015 in Assamese.   |
| 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( PM10/PM2.5), SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at convenient location near the main gate of the company in the public domain. | <p>Status of the compliance of the stipulated environment clearance condition is uploaded in our website i.e <a href="http://www.galaxycement.com">www.galaxycement.com</a> and also sent to the SEIAA, Assam.</p> <p>Monitoring data is being displayed at convenient location.</p> |
| 13. | The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA, Assam and Regional Office of MoEF, Shillong. The SEIAA, Assam shall monitor the stipulated conditions mentioned in the Environmental Clearance time to time.  | Six monthly reports on the status of the compliance of the stipulated environmental conditions and monitoring data is being submitted herewith to the respective SEIAA Assam, Regional Office of MoEF, Shillong.   |



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| 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 to the SEIAA, Assam and Pollution Control Board, Assam as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the SEIAA, Assam & Regional Offices of the MoEF, Shillong by e-mail. | Environmental statement in form-V for the financial year 2018-2019 is enclosed vide <b>Annexure IV.</b> |
| 15. | The SEIAA, Assam or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions will be monitored by SEIAA, Assam & the Regional Office of MoEF, Shillong.   | Agreed with.  |
| 16. | The SEIAA, Assam may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.  | Agreed with.  |
| 17. | Commitment made in the EIA/EMP report shall be complied.  | Complied with.  |
| 18. | Any other conditions or alternation in the above conditions will have to be implemented by the project authorities in a time bound manner.  | Agreed with.  |
| 19. | The above conditions will be enforced, inter-alia under the provisions of the Water (prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.  | Agreed with.  |

**ANNEXURE-I**

**MONITORING REPORTS**

**(STACK EMISSION, AMBIENT AIR, AMBIENT NOISE  
& FUGITIVE EMISSION)**

**ANNEXURE-II**

**PUC CERTEFICATES**

**ANNEXURE-III**

**OCCUPATIONAL HEALTH RECORD**

**ANNEXURE-IV**

**ENVIRONMENTAL STATEMENT IN FORM- V**