

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

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Salt Lake, Kolkata – 700 106

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No. 1276 /EN/T-II-1/044/2014

Date : 27 / 05 /2015

To
M/s. Rashmi Cement Ltd.
Premlata Building, 6th Floor,
39, Shakespeare Sarani
Kolkata – 700 017

SUB. : Environmental Clearance for the proposed expansion of Cement Grinding Unit from 0.18 MTPA to 0.96 MTPA by adding 1x600 TPD ball mill & 1x2000 TPD VRM by M/s. Rashmi Cement Ltd. at the existing plant premises at Vill-Boria, PO-Garhsalboni, PS – Jhargram, Dist – Paschim Medinipur, West Bengal

Sir,

This has a reference to your application dated 15/05/2014 and subsequent communications for Environmental Clearance for the proposed expansion of Cement Grinding Unit from 0.18 MTPA to 0.96 MTPA by adding 1x600 TPD ball mill & 1x2000 TPD VRM by M/s. Rashmi Cement Ltd. at the existing plant premises at Vill-Boria, PO-Garhsalboni, PS – Jhargram, Dist – Paschim Medinipur, West Bengal.

The proposal has been examined and processed in accordance with EIA Notification, 2006. It is noted that the proposed proposal is for expansion of a Portland Pozzolona Cement Grinding unit for enhancement of production capacity from 0.18 MTPA to 0.96 MTPA by installation of 1x600 TPD ball mill & 1x2000 TPD Vertical Roller Mill base grinding unit. It is noted that clinker will not be manufactured at the site. The manufacturing process will involve only grinding of Cement Clinker with Flyash/slag and Gypsum. The existing & proposed facilities are as follows:

Installations	Existing Capacity	Proposed Capacity
Ball mill	i) 1x 600 TPD (180000 TPA) ii) 1x300 TPD & 2x100 TPD to be dismantled	1x 600 TPD (180000 TPA)
VRM	-----	1x2000 TPD (600000 TPA)

It is noted that the salient features of the project, for which Environmental clearance has been considered are as follows :

- i. Location of the Site – Vill-Boria, PO-Garhsalboni, PS – Jhargram, Dist – Paschim Medinipur, West Bengal.
- ii. Latitude & Longitude: 22°23'30.95"N & 87°00'59.59"E
- iii. Land Area – Proposed expansion will be installed within existing land area of 13 acres.
- iv. Greenbelt – 4.3 acre.
- v. No. of trees to be planted : 1400
- vi. Raw Materials – Clinker (741000 TPA), Fly Ash (234000 TPA), Slag(195000 TPA), Gypsum (39000 TPA), Coal-27000 TPA.
- vii. Production Capacity – Existing Capacity – 1.8 MTPA & Proposed additional capacity – 7.8 MTPA

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viii. Additional Emission Sources –

Emission sources	Air pollution control system	Ht. of the stack from G.L
Ball mill (1x600 TPD)	Pulse jet bag filter	35 m
Vertical roller mill (1x2000 TPD)	Pulse jet bag filter	35 m
Slag dryer (1x30 TPH)	Cyclone with Pulse jet bag filter	35 m
Cement storage silo (2x5000 T)	Pneumatic conveyor system with common bag filter	35 m (common stack)
Fly ash silo (1x3000 T)	Pneumatic conveyor system with bag filter	35 m

Clinker unloading section, roller press circuit and packing section (2 nos.) to be provided with pneumatic conveying system with bag filter.

- ix. Additional make up water Requirement – 23 KLD (Source-bore well).
- x. Solid waste – All dust generated will be recycled and reused in the process.
- xi. Wastewater – No process effluent will be generated. Domestic sewage will be treated in STP. Treated sewage water will be used for dust suppression and green belt development. No effluent will be discharged outside the premises and 'Zero' discharge will be adopted.
- xii. Additional Power requirement – 3 MW. WBSEDCL.
- xiii. At least 15 KW of solar power to be generated and utilized

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused the recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal and the recommendations of the State Level Expert Appraisal Committee (SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA notification no. S.O. 1533 (E) dt. 14th September, 2006 of Ministry of Environment & Forests, GOI, subject to strict compliance of terms and conditions as mentioned below :-

A. SPECIFIC CONDITIONS:

- i. The gaseous emissions from various process units should conform to the load / mass based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.
- ii. Cement grinding shall be carried out in closed cement mill. Provision of dust extraction and pollution control systems along with minimum stack height of 35m from G.L. should be made for control of emission. Highly efficient Cyclone separators, Pulse Jet Bag Filters & ID Fan should be provided for Raw Material Handling Section, Ball Mill, Silo, Packing Section. Stack emissions shall be monitored at regular intervals and records maintained. The stack emission should not exceed 50 mg/Nm³.
- iii. Regular monitoring of the ambient air quality shall be carried out in and around the plant and records shall be maintained. All care to be taken to maintain the ambient air quality standards as per GSR 826 (E) dated 16.11.2009. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM₁₀, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to the SEIAA and the SPCB once in six months.
- iv. Finished cement should be collected in silo and packaging should be done through pneumatically

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- controlled system. Suction system should be installed at packaging section to minimize fugitive emission.
- v. All vibrating screens, storage bins will be adequately covered. Covered storage yards shall be provided for raw materials. Closed unloading of raw materials and closed conveyor belt for transportation with bag filter at transfer points should be provided. Suction head should be provided at all transfer points.
 - vi. Adequate dust suppression and extraction system should be provided in material storage areas, material unloading and transfer points for controlling fugitive emission. Fugitive dust emissions from ball mill and storage areas shall be collected in bag filters and recycled back to the process. Water sprinkling arrangement shall be made in the raw material stock yards and other high dust potential areas.
 - vii. Water required for proposed expansion shall be met from ground water supply as proposed. Groundwater shall be abstracted as per permission of the competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.
 - viii. Process effluent discharge is not permitted. No liquid effluent shall be generated by adoption of dry grinding process. All the treated wastewater should be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge should be adopted.
 - ix. Clinker manufacturing / heating is not permitted under this environmental clearance. Clinker and fly ash shall be stored in the closed silos and gypsum in covered shed.
 - x. All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers / reprocessors only.
 - xi. Adequate provisions should be made for harvesting rainwater. The unit is to develop water storage facilities of capacity (15000 KL) as proposed to harvest rainwater. Apart from using for plantation, firefighting etc., harvested rain water should be utilized in dust suppression and cooling water to reduce ground water abstraction.. Recharging of Groundwater is not permitted.
 - xii. Green belt shall be developed within the plant premises. At least 33% of the area should be kept for green belt development. At least 1400 no. of trees to be planted in the greenbelt area of 4.3 acres. Indicative list of species is given at Annexure-I There should not be any removal/destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of appropriate authority.
 - xiii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
 - xiv. Asphaltting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
 - xv. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper housekeeping shall be maintained within the premises.
 - xvi. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
 - xvii. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.

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- xviii. All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) guidelines for Cement Plants shall be followed and complied.
- xix. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
- xx. The Corporate Social Responsibility Plan with specific financial commitment should be implemented for the proposed project. At least 5% of the project cost should be utilised for Corporate Social Responsibility programmes. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.

B. GENERAL CONDITIONS:

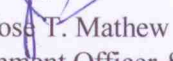
- i. The environmental clearance accorded shall be valid for a period of 5 years for the proposed project.
- ii. Prior Consent-to-Establish (NOC) for the proposed project must be obtained from WBPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.
- iii. The project proponent shall comply with all the environmental protection measures and safeguards recommended in the EIA/EMP. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply, sanitation program for local school and health care etc.
- iv. All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.
- v. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits. Environmental sanitation should be ensured for the workers.
- vi. The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA, West Bengal along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
- vii. No further expansion or modifications in the plant should be carried out without prior approval of the State Level Environment Impact Assessment Authority, West Bengal. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, West Bengal.
- viii. The West Bengal Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to the WBPCB regularly. A complete set of all the documents should also be forwarded to the State Level Environment Impact Assessment Authority, West Bengal.
- ix. The State Level Environment Impact Assessment Authority, West Bengal reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act. 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.
- x. The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA, West Bengal and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the SEIAA, West Bengal

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(<http://enviswb.gov.in>). This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.

- xi. 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. The criteria pollutant levels namely; PM₁₀, PM_{2.5}, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xii. The Project Authorities should inform the State Pollution Control Board as well as the SEIAA, West Bengal, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work/project implementation.
- xiii. The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2009, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.
- xiv. The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Shri Anil Kr. Mohta, GM, Finance
Address	Premlata Building, 6 th Floor, 39, Shakespeare Sarani Kolkata – 700 017
E-mail, Telephone Number, Fax Number	anilmohata@rashmigroup.com Tel : 2289 4255/4256 Fax : 2289 4254
Name of the Consultant	M/s. Envirotech East Private Limited


(Dr. Jose T. Mathew)
Chief Environment Officer &
Member Secretary, SEIAA

No. 1276 /EN/T-II-1/044/2014 /1(5)

Date : 27 / 05 /2015

Copy forwarded to :-

1. Secretary, SEAC & M.S. WBPCB
2. Monitoring Cell, Department of Environment, Government of West Bengal.
3. Officer-in-Charge, Regional Office (Eastern Zone), Ministry of Environment & Forests, Government of India, A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
4. Chief Inspector of Factories, 1, K.S. Roy Road, Kolkata – 700 001
5. Guard file / Record file.

Sd/-
Chief Environment Officer &
Member Secretary, SEIAA