

# ENVIRONMENT CLEARANCE

## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Poura Bhawan, FD-415-A, Sector-III, Salt Lake, Kolkata – 700 106

e-mail: [environmentwb@gmail.com](mailto:environmentwb@gmail.com)

Web Portal: [www.environmentwb.gov.in](http://www.environmentwb.gov.in)

No. 257/17 / EN / T – II – 1 / 021 / 2015

Date: 7<sup>th</sup> December, 2016

From: Member Secretary, SEIAA.

To

✓ M/s Emami Cement Ltd.,  
Emami Tower, 2<sup>nd</sup> floor,  
687, Anandapur, E.M. Bypass,  
Kolkata – 700 017.

Sub: Amendment of Environmental Clearance vide no. 2829/EN/T-II-1/021/2015, dated 18.11.2015 accorded by SEIAA for the proposed grinding Unit cement (2MTPA) and CPP (10MW), at Panagarh Industrial Park of WBIDC (Plot no. B2 & B3), Aushgram - II, Galsi - II and Kanksa, Burdwan, By - M/s Emami Cement Ltd.

Ref: Your application No. Nil, dated 17.10.2016.

Sir,

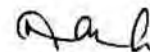
With reference to the above, SEIAA on 05.12.2016 considered the recommendation of SEAC dated 28.11.2016 and submission of the project proponent and agreed to the recommended amendment of EC

Therefore, Environmental Clearance vide no. 2829/EN/T-II-1/021/2015, dated 18.11.2015 is amended for installation of additional plant and machineries, without change in total production capacity, as stated below:-

Sl. No.	Facility	Capacity	Proposed APCE
1.	Silo (clinker)	1 x 2600 T	Bag filter
2.	Silo (ground slag)	1 x 2300 T	Bag filter
3.	Truck bulk loading system	2 x 250 TPH	Bag filter
4.	Packer	1 x 240 TPH	Bag filter
5.	Truck loader	3 x 240 TPH	Bag filter
6.	Wagon loader	16 x 125 TPH	Bag filter
7.	Truck tripler	1 x 60 T & 1 x 100 T	Bag filter
8.	Coal mill (for HAG)	1 x 10 TPH	Bag filter
9.	Hot air generator	1 x 110 GJ/Hr	nil
10.	Peddle mixture (binder)	1 x 350 TPH	Bag filter

All other terms and conditions of the Environmental Clearance vide No. 2829/EN/T-II-1/021/2015, dated 18.11.2015 would remain unchanged.

Yours sincerely,



(Sandipan Mukherjee, IFS)  
Member Secretary, SEIAA

No. 257/17 / EN / T – II – 1 / 021 / 2015

Date: 7<sup>th</sup> December, 2016

Copy forwarded for the information to:

The Secretary, State Level Expert Appraisal Committee, West Bengal Pollution Control Board, "Paribesh Bhavan", I.A, Salt Lake Sector III, Kolkata – 700 098.

(Sandipan Mukherjee, IFS)  
Member Secretary, SEIAA

emami **DOUBLE BULL** CEMENT



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# ENVIRONMENT CLEARANCE

## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Poura Bhavan, Block 'FD'-415A, 4<sup>th</sup> Floor, Sector – III,

Salt Lake, Kolkata – 700 106

Telefax No. 033 2337 0268

Website : [www.environmentwb.gov.in](http://www.environmentwb.gov.in)

No. 2929/EN/T-II-1/021 /2015

Date : 18 /11 /2015

To  
M/s. Emami Cement Ltd.  
Emami Tower, 2<sup>nd</sup> Floor  
687, Anandapur, E. M. Bypass,  
Kolkata-700107.

*SUB. : Environmental Clearance for the proposed stand alone Cement Grinding Unit of capacity 2.0 MTPA and CPP-10 MW by M/s. Emami Cement Ltd. at Plot no-B5A, B6 & B8, Panagarh Industrial Park of WBIDC, Block-Aushgram-II, Dist – Burdwan, West Bengal.*

Sir,

This has a reference to your application received on 07/04/2015 and subsequent communications for environmental clearance for the proposed stand alone Cement Grinding Unit of capacity 2.0 MTPA and CPP-10 MW by M/s. Emami Cement Ltd. at Plot no-B5A, B6 & B8, Panagarh Industrial Park of WBIDC, Block-Aushgram-II, Dist – Burdwan, West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. It is noted that the proposed proposal is for stand alone Cement Grinding unit of capacity 2.0 MTPA and CPP 10 MW. 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.

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

- Location of the Site – Plot no-B5A, B6 & B8, Panagarh Industrial Park of WBIDC, Block-Aushgram-II, Dist – Burdwan, West Bengal.
- Latitude & Longitude: 23°26'2.83" to 23° 26'32.02"N & 87°30'30.73" to 87°30'55.55"E
- Land Area – 26.30 Ha (alloted by WBIDC).
- Greenbelt – 8.68 Ha (33% of land area).
- No. of trees to be planted - 7000
- Raw Materials –

List of Raw materials	Quantity (MTPA)	Source	Mode of transportation
Clinker	1.12	Own integrated cement plant in Chhattisgarh	Rail
Slag	0.50	IISCO Burnpur, SAIL Durgapur	Rail/Road
Fly Ash	0.28	DVC Andal & captive	Rail/Road
Gypsum	0.10	Paradeep	Rail/Road
Coal	0.08	E-auction/ coal linkage	Road

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# ENVIRONMENT CLEARANCE

Conditions for Environmental Clearance for the proposed standalone Cement Grinding Unit of capacity 2.0 MTPA and CPP-10 MW by M/s. Emami Cement Ltd. at Plot no-B5A, B6 & B8, Panagarh Industrial Park of WBIDC, Block-Aushgram-II, Dist – Burdwan, West Bengal.

## vii. Emission Sources –

Description	Capacity	APCD
VRM along with auxiliaries equipment	-----	Bag filter
Cement Storage silos	4x6000 T	Bag filter
Clinker Storage silos	25000 T	Bag filter
Fly ash storage silo	1x5000 T	Bag filter
Packer	4x240 TPH	Bag filter
Cement mill	1x335 TPH	Bag filter
Truck loading	2x240 TPH	Bag filter
Coal crusher	100 TPH	Bag filter
Wagon tippler	1500 TPH	Effective dust Suppression System
CFBC Boiler	45 TPH	ESP

- viii. Manpower – Operation Phase – 166 persons.
- ix. Water Requirement – 550 KLD (Ground water/WBIDC supply)
- x. Solid waste – All dust generated will be recycled and reused in the process. Fly ash generated from CPP will be reused in cement manufacturing & bottom ash will be used in land filling, road development etc.
- xi. Wastewater – domestic effluent to be treated in STP and treated waste water shall be recycled. The unit shall maintain zero waste water discharge.
- xii. Power Source – 10 MW, CPP, WBSEDCL-5 MVA
- xiii. Back up power- DG set: 1no. 500 KVA.
- xiv. Use of solar power - At least 35 KW solar power to be generated and utilized

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and after considering 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. 14<sup>th</sup> 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 alongwith minimum stack height of 30m 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/Nm<sup>3</sup>.
- iii. A stack of 50 m height shall be provided with continuous online monitoring equipment for SO<sub>x</sub>, NO<sub>x</sub> and PM<sub>2.5</sub> & PM<sub>10</sub> for the captive power plant. High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission from the proposed plant does not





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- exceed 50 mg/Nm<sup>3</sup>.
- iv. Closed loop pneumatic conveying system to be provided for all phases of handling of fly ash at the site.
  - v. Regular monitoring of the ambient air quality shall be carried out in and around the plant and records shall be maintained. The ambient air quality standards as per GSR 826 (E) dated 16.11.2009 to be maintained.
  - vi. Finished product should be collected in silo and packaging should be done through pneumatically controlled system. Suction system should be installed at packaging section to minimize fugitive emission.
  - vii. 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.
  - viii. 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, cement bag loading areas and other high dust potential areas.
  - ix. Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
  - x. Groundwater shall not be abstracted without prior permission of the competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.
  - xi. Process effluent discharge is not permitted. No liquid effluent shall be generated by adoption of dry grinding process.
  - xii. Clinker manufacturing is not permitted under this environmental clearance. Clinker and fly ash shall be stored in the closed silos and gypsum in covered shed.
  - xiii. Solid waste viz. dust generated shall be properly recycled and reutilized in the process itself. Fly ash from CPP shall be collected in dry form and storage facility (silos) shall be provided. Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time.
  - xiv. Adequate provisions should be made for harvesting rainwater. The unit may develop water storage facilities of capacity to fulfill its water requirement for a maximum of 85 days as proposed to harvest rainwater. The harvested water should be used for plantation, firefighting, washing and cleaning etc. Recharging of Groundwater is not permitted.
  - xv. Green belt shall be developed within the plant premises. At least 33% of the area should be kept for green belt development. At least 700 nos. of trees to be planted. Indicative list of species is given at Annexure-I.. Green Belt consisting of three tiers of plantations of native species around plant and at least 50 m width shall be raised.
  - xvi. Ambient noise level should not exceed the permissible limit. 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).
  - xvii. All internal roads should be pitched. 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 house keeping shall be maintained within the premises.
  - xviii. Effective dust suppression system to be provided in wagon tippler section
  - xix. 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.
  - xx. 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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- xxi. All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) guidelines for Cement Plants shall be followed and complied.
- xxii. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
- xxiii. All the issues raised in the public hearing should be complied with.
- xxiv. The Corporate Social Responsibility Plan with specific financial commitment should be implemented for the proposed project. Atleast 5% of the project cost should be utilised for Corporate Social Responsibility programmes. The proponent shall undertake community welfare measures in the project area involving infrastructure development in local schools etc.
- xxv. CSR schemes identified based on need based assessment shall be implemented in consultation with the village Panchayat and the District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating.

## 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. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply, sanitation programme 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 Environmental 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 Environmental Impact Assessment Authority, West Bengal.
- ix. The State Environmental 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. A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while

*[Handwritten signature]*





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- processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- xi. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective zonal office of the WBPCB. The criteria pollutant levels namely: SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xii. 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 (<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.
- xiii. 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.
- xiv. 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.
- i. The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with	Mr. D.P. Chowdhury, Associate Vice President (B.D.)
Address	Emami Tower, 2 <sup>nd</sup> Floor, 687, Anandapur, E. M. Bypass, Kolkata-700107.
Email	Chowdhury.debiprasad@rediffmail.com
Telephone Number, Fax Number	Fax no. 033-66136243 Phone no. 033 66136217
Name of the Consultant	M/s. JM EnviroNet Pvt. Ltd.

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

No. 28 29 /EN/T-II-1/021 /2015 /1(5)

Date : 18 /11 /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, Factories Directorate, 1, K.S. Roy Road, Kolkata – 700 001.
5. Guard file / Record file.

Chief Environment Officer &  
Member Secretary, SEIAA

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Annexure – I

## LIST OF TREES PROPOSED FOR PLANTATION

Sl. No.	BOTANICAL NAME	COMMON NAME	QUANTITY
1.	<i>Spondias dulcis</i>	Malay apple	100
2.	<i>Ficus religiosa</i>	Ashathwa	50
3.	<i>Mimusops elengi</i>	Bakul	1000
4.	<i>Ficus benghalensis</i>	Bot	50
5.	<i>Alstonia scholaris</i>	Chhatim	1000
6.	<i>Polyalthia longifolia</i>	Debdaru	1000
7.	<i>Anthocephalus cadamba</i>	Kadam	200
8.	<i>Mangifera indica</i>	Mango	200
9.	<i>Albizia lebbek</i>	Sirish	100
10.	<i>Dalbergia sissoo</i>	Sisoo	500
11.	<i>Acacia auriculiformis</i>	Akashmoni	500
12.	<i>Litchi chinensis</i>	Litchi	100
13.	<i>Salmalia malabarica</i>	Simul	100
14.	<i>Azadirachta indica</i>	Neem	500
15.	<i>Swetenia mahogini</i>	Mehoginy	400
16.	<i>Butea monosperma</i>	Palas	200
17.	<i>Shorea robusta</i>	Sal	200
18.	<i>Madhuca longifolia</i>	Mohua	300
19.	<i>Terminalia arjuna</i>	Arjun	500
		<b>Total</b>	<b>7000</b>

*[Handwritten signature]*

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