

**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

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No. 89 /EN/T-II-1/037/2015

Date : 14 / 01 /2016

To  
M/s. JSW Cement Ltd.  
JSW Centre, Opp. MMRDA Ground  
Bandra Kurla Complex, Bandra (East)  
Mumbai – 400 051

*SUB. : Environmental Clearance for the proposed Cement Grinding Unit for production of Portland slag cement & Ground granulated blast furnace slag (GGBS) of capacity 2.4 MTPA by M/s. JSW Cement Ltd. at Vill-Salboni, Dist – Paschim Medinipur, West Bengal.*

Sir,

This has a reference to your application submitted on 30/06/2015 and subsequent communications for environmental clearance for the proposed Cement Grinding Unit for production of Portland slag cement & Ground granulated blast furnace slag (GGBS) of capacity 2.4 MTPA by M/s. JSW Cement Ltd. at Vill-Salboni, Dist – Paschim Medinipur, West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. It is noted that the proposed proposal is a Cement Grinding unit for production of portland slag cement & GGBS of capacity 2.4 MTPA. It is also noted that clinker will not be manufactured at the site. The manufacturing process will involve only grinding of Cement Clinker with Slag and Gypsum.

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-Salboni, Dist-Paschim Medinipur
- ii. Latitude & Longitude: 22°34'32.97"N & 87°18'38.70"E
- iii. Land Area – 133.20 acres .
- iv. Greenbelt – 44 acres (33% of land area).
- v. Raw Materials –

List of Raw materials	Quantity (MTPA)	Source	Mode of transportation
Clinker	1.50 to 1.76	local/imported	Rail
Slag	0.744 to 0.948	TISCO/ SAIL	Rail
Gypsum	0.0715	Local fertilizer plants	Rail/Road
Coal	0.032	E-auction/ coal linkage	Road

vi. Emission Sources –

Description	Capacity	APCD
Grinding unit (Roller Press)	4x90 TPH	Bag filter
Cement & GGBS Storage	3x5000 T	Bag filter
Blending unit	450 TPH	Bag filter
Clinker Storage silos	25000 T	Bag filter
Stacker slag	2000 TPH	Bag filter

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**Conditions for Environmental Clearance for the proposed Cement Grinding Unit for production of Portland slag cement & Ground granulated blast furnace slag (GGBS) of capacity 2.4 MTPA by M/s. JSW Cement Ltd. at Vill-Salboni, Dist – Paschim Medinipur, West Bengal.**

Packer	3x240 TPH	Bag filter
Hot air generator (HAG)	2x4 TPH	Bag filter
Coal mill for HAG	20 TPH	Bag filter
Wagon tippler	2000 TPH	Bag filter

- vii. Water Requirement – 600 KLD (Ground water supply and rain water harvesting) [Process cooling-490 KLD, Green belt development-60 KLD, Dust suppression-40 KLD, Domestic-10 KLD]
- viii. Solid waste – All dust generated will be recycled and reused in the process. Ash generated will be used in cement manufacturing.
- ix. Wastewater – domestic effluent to be disposed off through septic tank followed by soak pits. The unit shall maintain zero waste water discharge.
- x. Power Source – 25 MVA.
- xi. Solar power - At least 100 KW of solar power to be generated and utilized in addition to stand alone solar power street lights.

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 50m 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 30 mg/Nm<sup>3</sup>.
- iii. 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.
- iv. Provision of adequate back-up power to be made to ensure uninterrupted operation of pollution control devices.
- v. Necessary permissions from various statutory authorities like Chief Controller of Explosive, Factory Inspectorate and others shall be obtained prior commissioning of the project.
- vi. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised. First Aid Box, all types of fire extinguishers, water sprinkler, sand etc. shall be made readily available in adequate quantity at all the times. Necessary tie up with the nearby fire stations and other emergency services shall be made to ensure that the required aids reach within the shortest possible time in case of any adverse conditions.
- vii. Closed loop pneumatic conveying system for all phases of handling of fly ash and GGBS at the site to be installed and maintained.

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- 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. 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.
- x. Process effluent discharge is not permitted. No liquid effluent shall be generated by adoption of dry grinding process.
- xi. 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.
- xii. Solid waste viz. dust generated shall be properly recycled and reused in the process itself. The slag cement produced by mixing the fly ash generated in addition to the GGBS, as proposed, must meet the requirements of the relevant Indian Standards.
- xiii. Adequate provisions should be made for harvesting rainwater. The unit may develop water storage facilities of capacity—40,000 KL, as proposed, to harvest rainwater. Estimated rain water harvesting potential of 90,000 KL/annum to be stored and fully utilized to reduce ground water abstraction. No artificial ground water recharge is permitted.
- xiv. At least 33% of the area should be kept for green belt development. At least 12500 number of trees to be planted. Indicative list of tree species to be planted is given in Annexure-1. Green belt of 15 m width to be developed all along the plant boundary. 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.
- xv. 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).
- xvi. 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.
- xvii. At least 100 KW of solar power to be generated and utilized in addition to stand alone solar power street lights
- xviii. 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.
- xix. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
- xx. All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) guidelines for Cement Plants shall be followed and complied.
- xxi. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
- xxii. All the issues raised in the public hearing should be complied with.
- xxiii. 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.

**B. GENERAL CONDITIONS :**

- i. The environmental clearance accorded shall be valid for a period of 7 years for the proposed project.

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- 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 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. 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 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. 502, NOx (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://environmentwb.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.

*D. Anil*

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- 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.
- xv. The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Mr. Anil Kumar Pillai, Director & CEO
Address	M/s. JSW Cement Limited #501, Sai Anandam Residency, TTD Road, Srinivas Nagar, P.O. Nandyal, Dist. Kurnool (AP) Pin- 518 501
Email	ceo.cement@jsw.in
Telephone Number, Fax Number	Phone no. 08514202303, 02242863000
Name of the Consultant	M/s. Development Consultants Pvt. Ltd.



( Sandipan Mukherjee, IFS )  
Chief Environment Officer &  
Member Secretary, SEIAA

LIST OF TREES PROPOSED FOR PLANTATION

Sl. No.	BOTANICAL NAME	COMMON NAME	QUANTITY
1.	<i>Anthocephalus cadamba</i>	Kadam	500
2.	<i>Peltophorum pterocarpum</i>	Radhachura	500
3.	<i>Polyalthia longifolia</i>	Debdaru	2000
4.	<i>Madhuca longifolia</i>	Mahua	750
5.	<i>Schleichera olosa</i>	Kusum	350
6.	<i>Alstonia scholaris</i>	Chhatim	2000
7.	<i>Mimusops elengi</i>	Bakul	2000
8.	<i>Terminalia arjuna</i>	Arjun	500
9.	<i>Delonix regia</i>	Gulmohor	250
10.	<i>Bombax ceiba</i>	Simul	500
11.	<i>Acacia auriculiformis</i>	Akashmoni	1000
12.	<i>Ficus benghalensis</i>	Banyan	25
13.	<i>Dalbergia sissoo</i>	Sisoo	1000
14.	<i>Ficus benjamina</i>	Fig Tree	250
15.	<i>Tectona grandis</i>	Teak	250
16.	<i>Ficus religiosa</i>	Ashathwa	125
17.	<i>Cassia fistula</i>	Amaltas	500
		<b>Total</b>	<b>12500</b>

*[Handwritten signature]*