



Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), West Bengal)

To,

The Executive Vice President

JSW CEMENT LTD

JSW Cement Limited JSW Centre MM RDA Ground, Bandra Kurla
Complex, Bandra East Mumbai -400051

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the SEIAA vide proposal number
SIA/WB/IND/19745/2016 dated 23 Mar 2021. The particulars of the environmental
clearance granted to the project are as below.

- | | |
|---|---|
| 1. EC Identification No. | EC23B009WB111198 |
| 2. File No. | EN/T-II-1/091/2018 |
| 3. Project Type | Expansion |
| 4. Category | B1 |
| 5. Project/Activity including
Schedule No. | 3(b) Cement plants |
| 6. Name of Project | Expansion of Existing Cement Grinding
Unit from 3.6 MTPA to 4.8 MTPA to
produce Portland Slag Cement (PSC),
Portland Pozzolana Cement (PPC),
Ordinary Portland Cement (OPC),
Composite Cement & Ground Granulated
Blast Furnace Slag (GGBS) at Salboni,
District: Paschim Medinipur (West
Bengal) by M/s. JSW Cement Ltd. |
| 7. Name of Company/Organization | JSW CEMENT LTD |
| 8. Location of Project | West Bengal |
| 9. TOR Date | 11 Apr 2017 |

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 27/12/2023

(e-signed)
DHARMDEO RAI, I.F.S.
Member Secretary
SEIAA - (West Bengal)

*Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH. Please quote identification
number in all future correspondence.*

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and Virtuous Environmental Single-Window Hub)



Environmental Clearance for the proposed expansion of existing cement grinding unit from 3.6 MTPA to 4.8 MTPA to produce Portland Slag Cement (PSC), Portland Pozzolana Cement (PPC), Ordinary Portland Cement (OPC), Composite Cement & Ground Granulated Blast Furnace Slag (GGBS) at Salboni, Dist – Paschim Medinipur, West Bengal by M/s. JSW Cement Ltd.

Background of the project

The proponent made online application vide proposal no. SIA/WB/IND/19745/2016 dated 23.03.2021 seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the proposed expansion of existing cement grinding unit from 3.6 MTPA to 4.8 MTPA to produce Portland Slag Cement (PSC), Portland Pozzolana Cement (PPC), Ordinary Portland Cement (OPC), Composite Cement & Ground Granulated Blast Furnace Slag (GGBS) at Salboni, Dist – Paschim Medinipur, West Bengal by M/s. JSW Cement Ltd. Details of Plot Nos. is given in Annexure 1.

The proposal is for expansion of existing cement grinding unit from 3.6 MTPA to 4.8 MTPA.

Earlier the project proponent had obtained EC issued by SEIAA, WB vide No. 2015/EN/T-II-1/002/2017 dated 07.09.2017.

The project proponent obtained ToR for the proposed expansion project vide Memo No. 688- 2N-45/2015(E) dated 05.12.2018 against proposal no. SIA/WB/IND/29190/2018.

Salient features of the proposed project as submitted by the project proponent are as follows:

Location of the Site	Salboni, Dist – Paschim Medinipur, West Bengal				
Latitude & Longitude:	22°34'21.92"N to 22°34'39.64"N & 87°18'12.72"E to 87°19'11.58"E				
Total Land Area:	53.90 hectare				
Greenbelt	17.78 hec. (33% of existing land area) (No. of Plants existing 55000 nos.)				
Raw Materials	Slag – 2.521 MTPA, fly ash – 0.203 MTPA, Coal – 0.064 MTPA, Clinker - 2.176 MTPA, Gypsum - 0.160 MTPA				
Production Capacity	Particular	Existing Granted Capacity as per EC dated 07.09.2017	Existing Status	Additional Proposed Capacity	Total capacity after proposed expansion
	Cement (MTPA)	3.6	2.4 (Operational) 1.2 (Under construction)	1.2	4.8
	CPP (MW)	2 x 18	1 x 18 (Constructed but not operational) 1 x 18 (Under construction)	--	2 x 18
Total Manpower requirement	640 persons - (Existing – 210, Additional – 430)				
Total Water Requirement	Required quantity 765 m ³ /day, Permission quantity 1230 m ³ /day, source: bore well.				
	Existing (KLD)	Additional (KLD)	Total (KLD)		
	330	435	765		
Power requirement	41.7 MW (Existing – 27 MW & Additional – 14.7 MW), Source – WBSEDCL				
Total Project cost	220 crores				

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State Level Environment Impact Assessment Authority (SEIAA), West Bengal 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. 14th September, 2006 of Ministry of Environment & Forests, GOI and the subsequent amendments, in supersession of EC issued vide No. 2015/EN/T-II-1/002/2017 dated 07.09.2017 on the basis of above mentioned features along with other details submitted to SEIAA subject to strict compliance of the terms and conditions mentioned below.

Standard Conditions -

I. Monitoring of compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board (SPCB) / Committee.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority / SWID, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R.No.612(E) dated 25th S.O.3305(E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system carryout to Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of Ministry of Environment, Forest & Climate Change (MoEF&CC), Zonal office of CPCB, SPCB and State Environment Impact Assessment Authority (SEIAA) along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and

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fugitive emission standards.

- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
- viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- ix. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
- x. Provide wind shelter fence and chemical spraying on the raw material stock piles; and
- xi. Provide Low NO_x burners as primary measures and SCR / NSCR technologies as secondary measure to control NO_x emissions.
- xii. Have separate truck parking area and monitor vehicular emissions at regular interval.
- xiii. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts / railways as a mode of transport.
- xiv. Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.

III. Water quality monitoring and preservation

- i. The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R.No:612(E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and S.O.3305(E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers / sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Adhere to 'Zero Liquid Discharge'.
- v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- vi. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- vii. The project proponent shall practice rainwater harvesting to maximum possible extent.
- viii. Water meters shall be provided at the inlet to all unit processes in the cement plant.
- ix. The project proponent shall make efforts to minimise water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry / SEIAA & SPCB as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz.

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75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- ii. Provide the project proponent for LED lights in their offices and residential areas.
- iii. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.

VI. Waste management

- i. The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- ii. Kitchen waste shall be composted or converted to biogas for further use. (to be decided on case to case basis depending on type and size of plant)

VII. Green Belt

- i. Green belt shall be developed in an area equal to at least 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant. The project proponent should follow the plantation plan approved by Divisional Forest Officer, Medinipur Division vide Memo No. 4006/8-F-24 dated 29.09.2023.
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Provision shall be made for the housing of 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

IX. Environment Management Plan (EMP)

- i. The project proponent should submit the proposed EMP on a six monthly basis. The Office Memorandum issued by the MoEF & CC vide F. No. 22-65/2017-IA.III dated 30.09.2020 should be strictly followed.
- ii. Need based activities for local people is part of the EMP. Details of such activities for expansion project (in addition to the activities for the existing project) submitted by the project proponent is given in Annexure-2.
- iii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and/or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC / SPCB / SEIAA as a part of six-monthly report.
- iv. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- v. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to

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be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office / SEIAA / SPCB along with the Six Monthly Compliance Report.

- vi. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- vii. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.

X. Additional conditions

- a. Plan for installation of digital display board for showing all environmental parameters and EMP data. Beneficiary details of the social part of the EMP should also be displayed.

XI. Miscellaneous

- i. The environmental clearance accorded shall be valid for a period of 10 years for the proposed project.
- ii. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- iii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iv. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- v. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- vi. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- viii. The project proponent shall inform the Regional Office as well as the Ministry / SEIAA, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
 - a. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 - b. The project proponent shall abide by all the commitments and recommendations made in the EIA / EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA.
- x. Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

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- xii. The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Officer of the Ministry / SPCB shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- xvi. The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Mr. Manoj Kumar Rustagi, Executive Vice
Address	JSW Cement Ltd., JSW Centre, Bandra Kurla Complex Bandra (East), MUMBAI
Email	ceo.cement@jsw.in
Telephone Number	+91 22-42861000
Name of the Environmental Consultant	M/s. J.M. EnviroNet Pvt. Ltd.



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Annexure-1

List of Plot Nos. for the proposed expansion of existing cement grinding unit from 3.6 MTPA to 4.8 MTPA to produce Portland Slag Cement (PSC), Portland Pozzolana Cement (PPC), Ordinary Portland Cement (OPC), Composite Cement & Ground Granulated Blast Furnace Slag (GGBS) at Salboni, Dist – Paschim Medinipur, West Bengal by **M/s. JSW Cement Ltd.**

Mouza & JL No.	Plot No.	Area (in acres)
Gaighata - 455	321	1.25
Kulpheni - 456	175	0.73
	177	1.11
	183	0.26
	184	0.50
	186	0.83
	188	0.38
	189	1.16
	190	0.14
	197	0.72
	198	0.06
	199	0.05
	201	0.24
	203	1.34
	204	0.30
	447	0.48
	448	0.15
	450	0.21
	451	0.36
	452	0.10
	453	0.23
	454	0.62
Nutanbankati - 446	1	4.31
Kulpheni - 456	180	0.23
Nutanbankati - 446	2	2.20
	4	5.74
Jambedia - 445	349	51.33
Kulpheni - 456	96	0.18
	110	2.25
	125	0.06
	170	0.05
	172	8.05
	173	5.39
	174	1.58
	176	0.62
	178	0.47
	179	0.64
	181	0.29
	187	0.50
	191	0.33
	192	0.06
	194	28.52
	196	4.58

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	200	0.10
	202	1.14
	205	0.16
	177/449	0.30
Gaighata - 455	1	0.93
	1/322	1.24
	1/327	0.73
Total		133.2



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Annexure-2

NEED BASED ACTIVITIES FOR LOCAL PEOPLE FOR EXPANSION PROJECT

Action Plan for CER Activities					
S. No.	Activity Heads	Years (Rs. In lacs)			Total (Rs in Lacs)
		1 st	2 nd	3 rd	
A. Education					
1.	Introducing Digital platform of learning in 10 schools	2.5	2.5	2.5	7.5
2.	Facilitating scholarships for the meritorious students through National Securities Depository Limited (NSDL)	2.5	2.5	2.5	7.5
3.	Facilitating capacity strengthening for teachers and introducing innovative pedagogical tools	2.5	2.5	2	7
Sub Total		7.5	7.5	7	22
B. Health and Sanitation					
1.	Upgrading Primary Health Centres (PHC) located in the vicinity of the Township	6.5	6.5	5	18
2.	Providing machinery and equipments in the hospitals	11.5	10.5	10.5	32.5
3.	Conducting outreach health camps	4.5	4	4	12.5
Sub Total		22.5	21	19.5	63
C. Infrastructure development					
1.	Construction/maintenance of classrooms, toilets/water stations and provisioning of furniture and study material	12	11.5	11.5	35
2.	Construction/maintenance of skill development centers.	10	10	10	30
Sub Total		22	21.5	21.5	65
D. Sustainable Livelihood					
1.	Introducing high-yielding variety horticulture crops, precision farming methods to farmers.	2.5	2.5	2.5	7.5
2.	Distribution of seeds	4	3	3	10
3.	Short-term and long-term course for skill development	2.5	2.5	2.5	7.5
Sub Total		9	8	8	25
E. Social Development					
1.	Distribution of sports equipments	1.5	1.5	1	4
2.	Contribution in local fares	1.5	1.5	1	4
Sub Total		3	3	2	8
GRAND TOTAL					183