

**F. No. J-11011/692/2008-IA-II(I)**

Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

Indira Paryavaran Bhawan  
Jor Bagh Road, Aliganj,  
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E-mail: sharath.kr@gov.in  
Tel: 011-24695319

Dated: 21<sup>st</sup> February, 2018

To

M/s Shree Cement Limited  
Village Hansda, PO Burudih,  
Dist. Saraikela-Kharsawan, Jharkhand  
e-mail: [shreebwr@shreecementltd.com](mailto:shreebwr@shreecementltd.com)  
Tel No.: 01462 228101-6

**Subject: Expansion cum change in product mix from Clinker: 540000 TPA, Portland Slag Cement: 937500 TPA, Portland Pozzolana Cement: 180000 TPA to Clinker Grinding Unit of capacity 4.0 Million TPA cement along with proposed Power Plant 20 MW and captive railway siding near Village Hansda, PO Burudih, Dist. Saraikela-Kharsawan, Jharkhand by M/s Shree Cement Limited-Expansion cum Product Mix under the provision of Section 7(ii) of EIA Notification 2006 regarding.**

Sir,

This has reference to your online application vide **proposal no. IA/JH/IND/71306/2017** dated **29<sup>th</sup> November 2017** seeking environmental clearance for change in product mix under the provisions of Clause 7(ii) of the EIA Notification, 2006. 3(b) Cement Plants under Category "A" EIA Notification, 2006 and the proposal is appraised at Central level.

2.0 Environment Clearance for the proposed Integrated Cement Plant, Capacity Clinker: 540000 TPA, Portland Slag Cement: 937500 TPA, Portland Pozzolana Cement: 180000 TPA and Power Plant: 20 MW along with captive railway siding near village Hansda, PO Burudih, Dist. Saraikela-Kharsawan, Jharkhand was transferred from M/s Jupiter Cement Industries (unit of SKJ Coke Industries Ltd.) to M/s Shree Cement Ltd vide letter no. J-11011/692/2008-IA.II.(I) dated 31/07/2017. Further validity of EC was extended up to 29/10/2020 vide letter dated 18/10/2017.

3.0 It was reported that no physical installation has been carried by the company and not intended to install the clinker manufacturing unit.

*EC for the proposed 4.0 MTPA Clinker Grinding Unit; 20 MW Power Plant and captive railway siding near Village Hansda, PO Burudih, Dist. Saraikela-Kharsawan, Jharkhand by M/s Shree Cement Limited*



4.0 Now, the company is planning to install Clinker Grinding Unit in the name of Shree Jharkhand Cement Plant (A unit of Shree Cement Ltd) with capacity 4.0 Million TPA Cement (Phase-1: 2.5 Million TPA Cement and Phase-2: 1.5 Million TPA Cement) along with Captive Power Plant of 20 MW and captive railway siding in place of Integrated Cement Plant with Clinker capacity of 540000 TPA, Portland Slag Cement: 937500 TPA, Portland Pozzolana Cement: 180000 TPA and Power Plant:20 MW. The change in the product mix is as follows:

| S.No | Description           | Existing EC Capacity | Proposed Capacity |
|------|-----------------------|----------------------|-------------------|
| 1    | Clinker (Million TPA) | 0.54                 | Nil               |
| 2    | Cement (Million TPA)  | 1.11                 | 4.0 (2.5 + 1.5)   |
| 3    | CPP (MW)              | 20                   | 20                |
| 4    | DG Sets               | 3 MW                 | 1250 KVA          |

5.0 It was reported that no additional Land is required; water requirement will be reduced from 546 to 490 KLD; pollution load will be reduced for PM from 12.93 to 12.71 kg/hr, SO<sub>2</sub> from 31.89 to 14.42 kg/hr; and NO<sub>x</sub> from 58.31 to 14.42 kg/hr.

6.0 The proponent has mentioned that there is no court case or violation under EIA Notification to the project or related activity.

7.0 The project proponent has made detailed presentation on the proposed modernization / change in the product mix.

8.0 The committee observed that the instant proposal is for modification of the products by dropping the clinker unit and enhancement in grinding unit from 1.1 MTPA to 4 MTPA.

9.0 The proposal was considered by the Expert Appraisal Committee (Industry-I) during its 27<sup>th</sup> meeting held on 3<sup>rd</sup> to 5<sup>th</sup> January, 2018. After detailed deliberations, the committee recommended the for grant of environmental clearance under the provisions of clause 7(ii) of EIA Notification, 2006 for modification of the products by dropping the clinker unit and enhancement in grinding unit from 1.1 MTPA to 4 MTPA subject to following specific and general conditions applicable for standalone grinding uniting in supersession of earlier EC conditions.

10.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to grant Environmental Clearance for the proposed **Clinker Grinding Unit of capacity 4.0 Million TPA cement along with proposed 20 MW Power Plant and captive railway siding near Village Hansda, PO Burudih, Dist.**

*EC for the proposed 4.0 MTPA Clinker Grinding Unit; 20 MW Power Plant and captive railway siding near Village Hansda, PO Burudih, Dist. Saraikela-Kharsawan, Jharkhand by M/s Shree Cement Limited*



**Saraikela-Kharsawan, Jharkhand by M/s Shree Cement Limited** under the clause 7(ii) of EIA Notification dated 14<sup>th</sup> September, 2006, as amended, subject to strict compliance of the following Specific and General conditions:

**A. SPECIFIC CONDITION:**

1. The validity of the present EC will be up to 29<sup>th</sup> August 2020.
2. An amount equal to 5% of total cost proposed towards Enterprise Social Commitment (ESC) shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimated on the basis of Scheduled Rates.
3. Green belt shall be developed equal to 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.
4. The Capital cost Rs. 8.72 Crores and annual recurring cost Rs. 1.93 Crores towards the environmental protection measures shall be earmarked separately. The funds so provided shall not be diverted for any other purpose.
5. The company shall adopt the system of reporting of non-compliances / infringements to the Board of Directors once in six months and at the time of any incidence.
6. The emission for the bag house shall be maintained less than 20 mg/N-m<sup>3</sup>

**B. GENERAL CONDITIONS:**

1. The project proponent shall (Air Quality Monitoring):
  - a. install 24x7 continuous emission monitoring system at power plant stack to monitor stack emission with respect to parameters prescribed in S.O. 3305 (E) dated 7<sup>th</sup> December 2015 for thermal power plants as amended from time to time and connected to CPCB online;
  - b. monitor fugitive emissions in the plant premises;
  - c. carryout Continuous Ambient Air Quality monitoring as per National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November 2009 (as amended from time to time) within and outside the plant area at least at four locations covering upwind and downwind directions at an angle of 120° each; and
  - d. submit monitoring report to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
2. The project proponent shall (Water Quality Monitoring):
  - a) install effluents monitoring system at all the discharge points to monitor treated effluents with respect to parameters prescribed in S.O. 3305 (E) dated 7<sup>th</sup> December 2015 for thermal power plants as amended from time to time as amended from time to time; and



- b) submit monitoring report to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
3. The project proponent shall (Air Pollution Control):
- provide appropriate Air Pollution Control (APC) system for all the dust generating points including fugitive dust from all vulnerable sources;
  - design suitable capacity of bag filters to handle gas/air shall be 150% of the normal flow from process/ from suction hoods to achieve particulate emission to less than 20 mg/Nm<sup>3</sup>;
  - provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags;
  - provide pollution control system in the cement plant as per the CREP Guidelines of CPCB;
  - provide sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;
  - use leak proof trucks/dumpers for carrying raw materials & cement and shall cover them with tarpaulin. Use closed bulkers for carrying fly ash;
  - Provide wind shelter fence and chemical spraying on the raw material stock piles;
  - provide Low NO<sub>x</sub> burners to control NO<sub>x</sub> emissions; and
  - have separate truck parking area and monitor vehicular emissions at regular interval.
4. The project proponent shall (Water Pollution Control):
- adhere to 'zero liquid discharge';
  - provide Sewage Treatment Plant for domestic wastewater; and
  - provide garland drains and collection pits 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.
5. The project proponent shall (Water Conservation);
- practice rainwater harvesting to maximum possible extent;
  - provide water meters at the inlet to all unit processes in the power plant; and
  - make efforts to minimise water consumption in the complex by segregation of used water, practicing cascade use and by recycling treated water.
6. The PP shall (Energy Conservation):
- 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;
  - provide the project proponent for LED lights in their offices and residential areas;
  - maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards; and



7. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.
8. The PP shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
9. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
10. The PP shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
11. The PP shall adhere to the corporate environmental policy and system of the reporting of any infringements/ non-compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board resolution shall be submitted to the MoEF&CC as a part of six-monthly report.
12. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.
13. A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.
14. 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
15. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
16. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
17. The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
18. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) during day time and 70 dB(A) during night time.
19. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
20. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.



21. Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.
22. Sufficient number of colour coded waste collection bins shall be constructed at shop floors in each shop to systematically segregate and store waste materials generated at the shop floors (other than Process waste) in designated coloured bins for value addition by promoting reuse of such wastes and for good housekeeping.
23. The project proponent shall (post-EC Monitoring):
- send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;
  - put on the clearance letter on the web site of the company for access to the public.
  - inform the public through advertisement 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 that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at <http://envfor.nic.in>.
  - upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;
  - monitor the criteria pollutants level namely; PM10, SO2, NOx (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;
  - 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 Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;
  - 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;
  - inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

11.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

12.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.



13.0 The PP shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the EAC. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent.

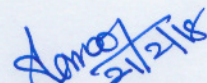
14.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

15.0 This EC is issued in supersession of the earlier EC vide J-11011/692/2008-IA.II.(I) dated 30<sup>th</sup> August 2010, subsequent amendment / extension vide even letter number dated 31<sup>st</sup> July 2017 and 18<sup>th</sup> October 2017.

16.0 The validity of this EC will be up to 29<sup>th</sup> August 2020. In case, the project proponent unable to implement the proposal within the validity period, a fresh EC shall be obtained by following the prescribed process as per the EIA Notification, 2006 *de-novo*.

17.0 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.

This issues with the approval of Competent Authority.

  
(Sharath Kumar Pallerla)  
Scientist 'F' / Director

**Copy to:-**

1. **The Secretary**, Department of Environment, Government of Jharkhand, Secretariat, Ranchi.
2. **The Additional Principal Chief Conservator of Forests(C)**, ), Ministry of Environment and Forest, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi-834002.
3. **The Chairman**, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. **The Chairman**, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), HEC Campus, P.O. Dhurwa, Ranchi - 834004, Jharkhand.

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5. **The Member Secretary**, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. **The District Collector**, Saraikela-Kharsawan District, State of Jharkhand.
7. **Guard File / Record file / Monitoring file.**
8. **MOEF&CC Website.**

*Sharath Kumar Pallerla*  
21/2/18

**(Sharath Kumar Pallerla)**  
**Scientist 'F'/Director**