



सत्यमेव जयते

# STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA), ODISHA.

(Constituted vide Order No. S.O. 3387 (E) Date 15.12.2015 of Ministry of Environment Forest & CC, Govt. of India,  
Under Environment Protection Act, 1986.)

Qr. No. 5RF-2/1, Unit - IX, Bhubaneswar - 751022

E-mail : selaaorissa@gmail.com

Ref. No. 3693/SEIAA  
File No. 19604/4-IND/06-2017

Date 17.10.17

To

Mr. Anil Kumar Pillai,  
Director & CEO, M/s JSW Cement Limited,  
JSW Centre, Bandra Kurla Complex,  
Bandra (East) Mumbai-400051

Sub: Proposal for setup of 1.2 MTPA Portland Slag Cement (P&C), Portland Pozzolana Cement (PPC), And Ground Granulated Blast Furnace Slag (GGBS) Cement Grinding Unit of M/s. JSW Cement Ltd, At Kalinga Nagar Industrial Complex, Danagadi, Dist- Jajpur - environmental clearance reg.

Ref: Online Proposal No: SIA/OR/IND/19604/2015

Sir,

This has reference to your Online Proposal No: SIA/OR/IND/19604/2015 dated 14.06.2017 and letter no. JSWCL/Projects/Odisha/2015-16 dt. 30.12.2015 and letter no. JSWCL/JPR dt. 20.06.2017 seeking environmental clearances for the above mentioned project under EIA Notification 2006. The proposal has been appraised as per the provisions under the EIA Notification 2006 and on the basis of the documents enclosed with the application such as Form-1, Prefeasibility Report and clarifications furnished in response to the observations of the State Expert Appraisal Committee, Odisha.

As per the application submitted by the project proponent, M/s JSW Cement Limited (hereafter mentioned as JSWCL) has proposed to set up 1.2 MTPA portland slag cement (P&C), portland pozzolana cement (PPC), and ground granulated blast furnace slag (GGBS) cement grinding unit located at Kalinga Nagar Industrial Complex, Danagadi, Dist- Jajpur. The project proponent in his application has also submitted that the proposed project site falls under Survey of India toposheet no. 73 L/1 (Ref: Topo sheet 73G/16 , 73 H/13, 73 L/1 & 73K/4). The Latitude and Longitude are 20° 57' 10.31" N to 20° 57' 18.09" N and 86° 02' 14.46" E to 86° 02' 32.39" E. Broadly the location is in the northern



hemisphere of the globe. The average elevation is 46 m above MSL. Jajpur district is surrounded by Keonjhar district in North, Bhadrak district in East, Dhenkanal district in West and Cuttack district in South direction. River Brahmani is 7.0 Km in South of the project site. Bay of Bengal is at 98 Km in East of the project site. No forest land is involved in the site and Danagadi R.F is at a distance of 6.25 Km in NE direction of project site. The site is at 9 km from NH-215. Duburi is at a distance of 7 km from the site and district head quarter Jajpur is at a distance 35 km from the site. Nearest railway station is Sukinda road at 2.4 km, Jakhapura at 5.28 km, Jajpur- Keonjhar Road at 12 km from the plant site.

The proposed project will require 15.0 acres of land inside the plant premises of JSL. IDCO vide its letters dated 28.04.2016 and 10.05.2017 has approved the allotment of 15.0 acres of land to JSW Cement from the allotted land of M/s Jindal Stainless Limited (JSL). JSL has accordingly surrendered the land to IDCO on 12.07.2017. Provisional Land allotment with Demand Note issued to JSW Cement Ltd. by IDCO on 22.07.2017 and accordingly, the Company deposited the land cost to IDCO on 24.07.2017. Lease agreement is in progress. Existing land Kissam is Industrial. The cement grinding unit will have separate boundary and entrance after its establishment.

There is no National Park, Sanctuaries and Biosphere Reserves within 10 kms radius of the proposed site. Ground water level of the study area ranges from 2.58 mbgl to 5.74 mbgl during Pre-monsoon. Ground water level of the study area ranges from 1.42 mbgl to 2.64 mbgl during Post-monsoon. The baseline data has been collected during Pre-Monsoon Season (15th March 2016– 14th June 2016). Public Hearing was conducted on 03.05.2017 and accordingly Final EIA report has been prepared. Term of Reference (ToR) was issued to establish the plant over 17.0 acres of land. But the project proponent have decided to set up the plant over 15.0 acres of land as IDCO has allotted a total 15.0 acres of land for the project. However, they have proposed to keep the greenbelt area same as 5.61 acres by reducing the vacant land from 3.59 acre to 1.59 acre. Gaseous emission will be controlled by installing air pollution control equipments. Dust suppression will be done by water sprinkling to control fugitive emissions due to transportation activities. Water sprinkling will be done along the haul roads to control dust arising from vehicular movement. Suitable type and capacities of bag filters will be envisaged for the deducting system at Raw material handling points. Dust from APC devices and Ash generated from Hot Air Generator will be reused in process. Total water requirement for the proposed project is of 500 KLD. Total power requirement for the proposed project is 15 MW. Domestic waste water will be treated in septic tank and discharged to soak pit. Zero





discharge of effluent will be maintained in the proposed plant. The project proponent made a detailed presentation on the project before the SEAC on 08.08.2017 and 06.10.2017.

Considering the information/documents furnished and additional clarifications provided during presentations made by the consultant M/s Visiontek Consultancy Services Pvt. Ltd. Bhubaneswar on behalf of the project proponent, the State Expert Appraisal Committee (SEAC) after due considerations of the relevant documents submitted by the project proponent and clarifications /documents furnished to it have recommended for grant of environmental clearance for the project valid for a period of 07 years with necessary stipulated conditions.

The State Environment Impact Assessment Authority (SEIAA) after considering the proposal and recommendations of SEAC, Odisha hereby accords Environmental Clearance in favour of the project for a period of 7 (seven) years under the provisions of EIA Notification 2006 and 2009 and subsequent amendments thereto subject to strict compliance of all conditions as follows.

**Stipulated Conditions:**

**A. Specific Conditions:**

1. Environmental Clearance is granted as recommended by SEAC considering that they are standalone grinding units.
2. The environmental clearance is granted for cement grinding unit of following production capacity.

Product	Capacity
Portland Slag Cement (PSC)	1.2 MTPA
Portland Pozzolona Cement (PPC)	
Ground Granulated Blast Furnace Slag (GGBS)	
Portland Composite Cement (PCC)	

3. The project proponent should install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to the SEIAA, Odisha and Regional Office, MoEF & CC, Bhubaneswar.
4. The Standards issued by the MoEF & CC, Govt. of India vide G.S.R. No. 612 (E) dated 25<sup>th</sup> August, 2014 and subsequent amendment dated 9<sup>th</sup> May, 2016 and 10<sup>th</sup> May, 2016 regarding cement plants with respect to particulate matter, SO<sub>2</sub> and NO<sub>x</sub> shall be followed.
5. Continuous stack monitoring facilities to monitor gaseous emissions from the process stacks shall be provided. Limit of PM shall be controlled to meet prescribed standards by installing adequate air pollution control.
6. The National Ambient Air Quality Standards issued by the MoEF & CC, Govt. of India vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
7. Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines/Code of Practice issued by the CPCB in



this regard shall be followed.

8. All the raw materials shall be stored under covered shed (as proposed) to control fugitive emission.
9. 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 conveyors/rail mode of transport wherever feasible. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.
10. All the treated wastewater shall be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted.
11. Efforts shall be made to make use of harvested rain water.
12. All the bag filter dust, raw mill dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers / re-processors only.
13. Green belt over 33% (5.61 acres as proposed) of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area and along road sides etc. by planting native and broad leaved species in consultation with local DFO, local community and as per the CPCB guidelines.
14. The project proponent shall provide solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly. The proponent shall use Solar / Renewable energy of 5 % of the expected actual power requirement.
15. The project proponent shall provide LED lights in their offices and residential areas.
16. All the commitments made during the Public Hearing / Public Consultation meeting held on 03<sup>rd</sup> May, 2017 shall be satisfactorily implemented and adequate budget provision should be made accordingly.
17. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.
18. At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on Public Hearing issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted to the SEIAA, Odisha and Regional Office, MoEF & CC, Bhubaneswar. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent, representatives of village Panchayat and District Administration. Action taken report in this regard shall be submitted to the SEIAA, Odisha as well as to the Regional Office, MoEF & CC, Bhubaneswar.
19. In addition to the above provision of ESC, the proponent shall prepare a detailed CSR Plan for the next 5 years including annual physical and financial targets for the project, which includes village-wise, sector-wise (Health, Education, Sanitation, Skill Development and infrastructure etc.) activities in consultation with the local communities and administration. The plan so prepared shall be based on SMART (Specific, Measurable, Achievable, Relevant and Time bound) concept. The expenditure should be aimed at sustainable development and direct free distribution





and temporary relief should not be included. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to the SEIAA, Odisha and Regional Office, MoEF & CC, Bhubaneswar. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.

20. A Risk Assessment Study and Disaster Preparedness and Management Plan along with the mitigation measures shall be prepared with a focus of Disaster Prevention and a copy submitted to the SEIAA, Odisha, Regional Office, MoEF & CC, Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.
21. To educate the workers, all the work places where dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.
22. 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, 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.

#### **B. General Conditions:**

1. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Odisha.
2. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Odisha.
3. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to the SEIAA, Odisha, Regional Office, MoEF & CC, Bhubaneswar and the SPCB/CPCB once in six months.
4. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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).
5. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
6. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
7. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes,

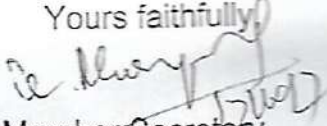


- drinking water supply and health care etc.
8. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the SEIAA, Odisha as well as the State Pollution Control Board, Odisha. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office, MoEF & CC, Bhubaneswar. The funds so provided shall not be diverted for any other purpose.
  9. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body 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 web site of the company by the proponent.
  10. 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 on the MoEF & CC website. It shall simultaneously be sent to the Regional Office of the MOEF&CC at Bhubaneswar, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (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.
  11. The project proponent shall also 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, Bhubaneswar, the respective Zonal Office of CPCB and the SPCB. The Regional Office of MoEF & CC at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.
  12. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the Regional Office of the MOEF&CC at Bhubaneswar by e-mail.
  13. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, Odisha and copy of the clearance letter is available with the SPCB and may also be available in the Website of the SEIAA, Odisha and the Odisha State Pollution Control Board (OSPCB). This shall 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 and a copy of the same should be forwarded to the Regional office, MoEF & CC, Bhubaneswar as well as State Pollution Control Board, Odisha.
  14. Project authorities shall inform the SEIAA, Odisha as well as the Regional Office, MoEF&CC, Bhubaneswar, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.



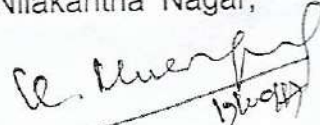
15. The SEIAA, Odisha may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
16. The SEIAA, Odisha reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
17. The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of the project as and when required.
18. 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 & Other Wastes (Management And Transboundary Movement) Rules, 2016 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.
19. Any appeal against this clearance 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.

The above mentioned stipulated conditions shall be complied in a time-bound manner. Failure to comply with any of the conditions mentioned above may result in cancellation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

Yours faithfully,  
  
 Member Secretary

Memo No 3694/SEIAA /Dt. 17.10.17  
 Copy to

1. Joint Secretary (Environment), Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for information.
2. Principal Secretary, Forests & Environment Dept., Government of Odisha for information.
3. Chairman, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
4. Additional Principal Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharapur, Bhubaneswar for information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for information.
6. Collector, Jajpur, for kind information and necessary action.
7. Chairman/Member/Member Secretary, SEIAA for kind information.
8. Chairman, SEAC/Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
9. Guard file for record.

  
 Member Secretary