

F. No. J-11011/76/2013-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi - 110003
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Tel: 011-24695319

Dated: 23rd January, 2018

To

The President,
M/s JSW Steel Ltd,
Geetapuram, Dolvi, Taluka: Pen,
District: Raigad, Maharashtra 402107
Tel: (02143) 246000/2467000/277501-15; Fax: (02143) 277533-42

Subject: Expansion of Integrated Steel Plant (5 MTPA to 10 MTPA) and Gas Based Power Plant (300 MW to 600 MW) at Geethapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra by M/s JSW Steel Limited – Amendment in Environmental Clearance regarding.

Sir,

This has reference to your online proposal no. **IA/MH/IND/41055/2015** dated 15th January, 2016; **IA/MH/IND/18771/2012**, dated 10th August 2016 and your communications dated 8th February 2017; 23rd May 2017; 22nd June 2017; 20th July 2017; and 2nd November 2017 for partial transfer of 1.0 MTPA Coke-Oven Plant and 2.5 MTPA 'Coke-Oven including by-product plant' to M/s Dolvi Coke Projects Limited and 10 MTPA Slag & Clinker Grinding unit to M/s JSW Cement Limited respectively from M/s JSW Steel Limited.

2.0 The Environmental Clearance to the expansion project of Integrated Steel plant from 3.0 MTPA to 5.0 MTPA at Village Dolvi, Taluka Pen, District Raigad in Maharashtra was accorded vide letter J-11011/166/2011-IA-II (I) dated 21st November 2012 to M/s JSW Steel Ltd and further expansion of its project up to 10 MTPA was accorded environmental clearance vide letter J-11011/76/2013-IA II (I) dated 25th August 2015.

3.0 The proposal was considered in the Expert Appraisal Committee (Industry-I) in its 19th meeting held during 8th – 9th June 2017; 20th meeting held during 10th – 11th July 2017 and 21st meeting held during 10th – 11th August, 2017.

4.0 After detailed deliberations, the committee recommended for the transfer of 1.0 MTPA Coke-Oven Plant and 2.5 MTPA 'Coke-Oven including by-product plant' to M/s Dolvi Coke Projects Limited (new company) and 10 MTPA Slag & Clinker Grinding unit to M/s JSW Cement Limited (new company) from M/s JSW Steel Limited (parent company) with specific and general conditions which are agreed by project proponent during the EAC meeting.

5.0 The Ministry of Environment, Forest and Climate Change, based on the recommendations of the Expert Appraisal Committee (Industry-I), decided to transfer the Environmental Clearance of 1.0 MTPA Coke-Oven Plant and 2.5 MTPA 'Coke-Oven including by-product plant' to M/s Dolvi Coke Projects Limited (new company) and 10 MTPA Slag & Clinker Grinding unit to M/s JSW Cement Limited (new company) from M/s JSW Steel Limited (parent company) located at Geethapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra under clause 11 of EIA Notification, 2006 and subsequent amendments.

6.0 The environmental clearance vide letter no. J-11011/76/2013-IA.II(I) dated 25th August 2015 will be henceforth exclusive of 1.0 MTPA Coke-Oven Plant; 2.5 MTPA Coke-Oven including by-product plant; and 10 MTPA Slag & Clinker Grinding unit.

7.0 All the conditions stipulated in environmental clearance vide letter no. J-11011/76/2013-IA.II(I) dated 25th August 2015 will be remain unchanged.

8.0 Implementation of the Enterprises Social Responsibility (ESR) and CSR; no change in the pollution load; and no conflict in sharing in common facilities in day to day operations shall be responsibility of the parent company i.e. JSW Steel Limited.

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

10.0 This letter is issued in partial modification of the J-11011/76/2013-IA.II(I) dated 25th August 2015.

11.0 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, Govt. of Maharashtra, Mantralaya, Mumbai.
2. **The Secretary**, Department of Forests, Govt. of Maharashtra, Mantralaya, Mumbai
3. **The Additional Principal Chief Conservator of Forests**, Regional Office (WCZ), Ministry of Environment, Forest and Climate Change, Nagpur
4. **The Chairman**, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
5. **The Member Secretary**, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. **The Chairman**, Maharashtra Pollution Control Board, Kalpatru Point, Sion Circle, Sion (East), Mumbai-400 022, Maharashtra.
7. **The District Collector**, Raigad District, Maharashtra.
8. **Guard File / Record file / Monitoring file.**
9. **MOEF&CC Website.**



(Sharath Kumar Pallerla)
Scientist 'F' / Director

F. No. IA-J-11011/499/2017-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi - 110003
E-mail: sharath.kr@gov.in
Tel: 011-24695319

Dated: 2nd February 2018,

To

**The Vice President,
M/s JSW Cement Limited,
Geetapuram, Dolvi, Taluka: Pen,
District: Raigad, Maharashtra 402107
Tel: 02143-277601**

Subject: 10 MTPA Slag & Clinker Grinding unit – Transfer of Environmental Clearance from Integrated Steel Plant (5 MTPA to 10 MTPA) and Gas Based Power Plant (300 MW to 600 MW) of M/s JSW Steel Limited located at Geethapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra to M/s JSW Cement Limited regarding.

Sir,

This has reference to your online proposal no. **IA/MH/IND/41055/2015** dated 15th January, 2016; **IA/MH/IND/18771/2012**, dated 10th August 2016 and your communications dated 23rd May 2017; 22nd June 2017; 20th July 2017; 8th February, 2017 and 2nd November 2017 for partial transfer of 10 MTPA Slag & Clinker Grinding unit from M/s JSW Steel Limited to M/s JSW Cement Limited.

2.0 The Environmental Clearance to the expansion project of Integrated Steel plant from 3.0 MTPA to 5.0 MTPA at Village Dolvi, Taluka Pen, District Raigad in Maharashtra was accorded vide letter J-11011/166/2011-IA-II (I) dated 21st November 2012 to M/s JSW Steel Ltd and further expansion of its project up to 10 MTPA was accorded environmental clearance vide letter J-11011/76/2013-IA II (I) dated 25th August 2015.

3.0 Details of production capacities of various units of Integrated Steel Plant (5 MTPA to 10 MTPA) and Gas Based Power Plant (300 MW to 600 MW) of M/s JSW Steel Limited located at Geethapuram, Village Dolvi, Tehsil Pen, District Raigad in Maharashtra vide letter J-11011/76/2013-IA II (I) dated 25th August 2015 is given below:

| Sl No | Item | Total Capacity as per EC dated 25 th Aug 2015 |
|-------|--------------------------------------|--|
| 1 | DRI (Gas based Mega Module) | 4.0 MTPA |
| 2 | Pellet Plant | 8.0 MTPA |
| 3 | Coke Oven including By-product plant | 4.5 (1+1+2.5) MTPA |
| 4 | Sinter Plant | 14 MTPA |
| 5 | Blast furnace including pig casting | 8.1 MTPA |
| 6 | SMS (CONARC) | 5.2 MTPA |
| 7 | SMS-BOF | 6.0 MTPA |
| 8 | Ladle Furnace (LF) | 2X200t+250t +2X300t |

| Sl No | Item | Total Capacity as per EC dated 25 th Aug 2015 |
|-----------|--|--|
| 9 | VD/VOD & RH-TP | 1X200t+1X205t +2X300t |
| 10 | CSP (HRC Coil) Thin Caster-cum-Hot Strip Finishing Train | 3.5 MTPA |
| 11 | Conventional Slab Caster | Total 6 strands (9.4 MTPA) |
| 12 | Billet Caster | 6 strands (1.5 MTPA) |
| 13 | Plate Mill | 1.5 MTPA |
| 14 | CRM | 2.5 MTPA |
| 15 | Galvanizing Line | 0.6 MTPA |
| 16 | Electrical Steel CRGO Line | 0.4 MTPA |
| 17 | Tin Plate Mill | 0.4 MTPA |
| 18 | Colour Coating line | 0.5 MTPA |
| 19 | Lime/doloPlant | 3600 tpd |
| 20 | Oxygen Plant | 7600 tpd |
| 21 | Hot Rolling Mill | 5.0 MTPA |
| 22 | Bar Mill | 1.4 MTPA |
| 23 | Slag & Clinker grinding unit | 10.0 MTPA |
| 24 | Captive Power Plant | 600 MW |
| 25 | Township (Area) | 150 Acres |

4.0 M/s JSW Steel Limited has proposed to transfer of 10 MTPA Slag & Clinker Grinding unit (Sl. No. 23 of above table) from Integrated Steel Plant (5 MTPA to 10 MTPA) and Gas Based Power Plant (300 MW to 600 MW) granted Environmental Clearance vide J-11011/76/2013-IA II (I) dated 25th August 2015 to M/s JSW Cement Limited.

5.0 It was reported that the 10 MTPA Slag & Clinker Grinding unit is located within the premises of the Integrated Steel Plant (5 MTPA to 10 MTPA) and Gas Based Power Plant (300 MW to 600 MW) of M/s JSW Steel Limited with the bounded between Latitudes from 18° 40'19" to 18° 40'22" N and Longitude- 73° 03'05"- 73° 03'08" E

6.0 Details of the raw material requirement for the proposed transfer of 10 MTPA Slag & Clinker Grinding unit will be 5.0 MTPA clinker and 5.0 MTPA Granulated Blast Furnace Slag.

7.0 The total water requirement for the 10 MTPA Slag & Clinker Grinding Unit is 58.5 m³/hr. Required water will be sourced from JSW Steel Limited, out of the total water requirement of 4833.3 m³/hr. The Power requirement will be 120 MW.

8.0 The capital cost of the 10 MTPA Slag & Clinker Grinding Unit is Rs. 1100 Crs and the Rs. 55 Crs will be earmarked for the Environmental Protection measures as a capital.

9.0 The manufacture of Ordinary Portland Cement (OPC) *inter alia* include the stored clinker and gypsum will be ground using the roller press mills and then stored in silos and packed for delivery. Whereas manufacture of Portland Slag Cement (PSC) *inter alia* include Granulated Blast Furnace slag (GBFS), sourced from JSW Steel Ltd, will be ground using the Roller Press Mills and stored in silos and then from the silos will be directed to Paddle Mixer along with OPC using weigh feeders to form Portland Slag Cement (PSC) and stored in product PSC Silos and then to packaging units for delivery.

10.0 No court case or violation under EIA Notification, 2006 to the project or related activity reported by project proponent.

11.0 The proposal was considered in the Expert Appraisal Committee (Industry-I) in its 19th meeting held during 8th – 9th June 2017; 20th meeting held during 10th – 11th July 2017 and 21st meeting held during 10th – 11th August, 2017.

12.0 After detailed deliberations, the committee recommended for the transfer of EC of 10 MTPA Slag & Clinker Grinding Unit from M/s JSW Steel Limited (parent company) to M/s JSW Cement Limited (new company) with specific and general conditions.

13.0 The Ministry of Environment, Forest and Climate Change, based on the recommendations of the Expert Appraisal Committee (Industry-I), hereby decided to transfer the Environmental Clearance of 10 MTPA Slag & Clinker Grinding Unit from Environmental Clearance granted for Integrated Steel Plant (5 MTPA to 10 MTPA) and Gas Based Power Plant (300 MW to 600 MW) of M/s JSW Steel Limited (parent company) to M/s JSW Cement Limited (new company) under clause 11 of EIA Notification, 2006 and subsequent amendments subject to strict compliance of the following Specific and General conditions:

A. Specific Conditions:

- i. The project proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent discharge, as provided by CPCB and submit report to Ministry and its Regional Office.
- ii. The PP should ensure treatment of effluent from Cement plant.
- iii. The commitment made by the PP for plantation of the green belt over 33% of project area should be expedited. Three rows of green belt, 12-15 meters wide, all along the periphery of the plant should be planted.
- iv. The CSR plan as submitted by the PP in the area of health care, rural infrastructure development, education, sports and cultural activity, Swachh Bharat Abhiyan with respect to the earlier projects and the ongoing project at Dolvi site are very slow in implementation. The CSR activities should be implemented expeditiously and simultaneously with the implementation of the project, and annual report on CSR activity should be submitted to the Ministry.
- v. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs. The proponent should prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. 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 should be created and the annual capital and revenue expenditure on various activities of the Plan should be submitted as part of the Compliance Report to RO, at Bhopal. The details of the CSR Plan should also be uploaded on the company website and should also be provided in the Annual Report of the company.
- vi. No development should be done on the creek-ward side of the land. Land area between HTL to 100 mts or width of the creek, whichever is less, on the landward side should be kept free from any type of development.

- vii. Full utilization of BF slag should be implemented. The details should be submitted along with 6 monthly compliance reports.
- viii. No waste water will be discharged outside the plant boundary during normal operation. In case it become necessary to discharge effluent meeting norms fit to the marine environment, permission of the relevant authority should be obtained.
- ix. No untreated effluent should be reused for any process.
- x. Measures should be taken to reduce PM levels in the ambient air. Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. should be provided to keep the emission levels below 50mg/Nm³ and installing energy efficient technologies in the Plant.
- xi. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices. Gaseous emission levels including secondary fugitive emissions from all the sources should be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.
- xii. Dust suppression system and bag filters should be installed to control the fugitive dust emissions at conveyor and transfer points, product handling, loading and unloading points.
- xiii. Water consumption should not exceed as per the CREP standard prescribed for the steel plants. Additional water, if any, required for the plant project operations. Should be met from rainwater stored in rainwater harvesting structures.
- xiv. Rainwater harvesting scheme should be prepared so that the rainwater can be collected, re-used and may be used for ground water recharge. The concrete drains should be de-silted and regular supervision of the areas should be carried out so that blocking of drains may be avoided for quick discharge of rainwater. Efforts should further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement.
- xv. All the effluents should be treated and reused for dust suppression/green belt development. No effluent should be discharged and 'zero' discharge should be adopted.
- xvi. Full utilization of fly ash should be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash should be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding should be submitted to the Ministry's Regional Office at Bhopal.
- xvii. Hazardous materials required during construction phase and in plant operations should be stored properly as per the regulations and reused/recycled as per the E(P)A Rules.
- xviii. Vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.
- xix. Risk and Disaster Management Plan along with the mitigation measures should be prepared and implemented.

- xx. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.
- xxi. All the commitments made to the public during public hearing/public consultation should be satisfactorily implemented and adequate budget provision should be made accordingly.
- xxii. All the permanent workers should be covered under ESI Scheme. The company should have the provision for treatment of its workers at the local Nursing Homes & Hospitals in case of emergency. Annual Medical Check-up on some medical parameters like Blood test, Chest X-Ray, Eye test, Audiometry, Spirometry etc. should be conducted amongst the employees of the Company.

B. General Conditions

- i. The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC).
- iii. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.
- iv. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dB A) 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).
- vi. Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- vii. The company should develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. The project proponent should 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.
- ix. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be

submitted to the Regional Office of the Ministry at Nagpur. The funds so provided shall not be diverted for any other purpose.

- x. 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.
- xi. 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. It shall simultaneously be sent to the Regional Office of the MOEFCC at Nagpur. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10 SO2,NOx (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.
- xii. 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-mail) to the Regional, Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore / CPCB / SPCB shall monitor the stipulated conditions.
- xiii. The environmental statement for each financial year ending 31st March in Form-Vas 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 respective Regional Office of the MOEFCC at Nagpur by e-mail
- xiv. The Project Proponent shall inform the public 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, Forest and Climate Change (MoEFCC) at <http://envfor.nic.in>. 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 at Nagpur.
- xv. Project authorities shall 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.

14.0 M/s JSW Cement limited shall abide by all the commitments and recommendations made in the EIA/EMP report and that during presentation to the EAC; commitments made during the Public hearing held on 28.01.2014 for Integrated Steel Plant.

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

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

17.0 The PP shall ensure no change in the pollution load; and no conflict in sharing in common facilities in day to day operations.


18.0 All the liabilities regarding environmental issues of slag and clinker grinding unit will be the responsibility of the new company i.e. M/s JSW Cement Limited.

19.0 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.

20.0 This Environmental Clearance is partial modification of the J-11011/76/2013-IA II (I) dated 25th August 2015.


21.0 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

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1. **The Secretary**, Department of Environment, Govt. of Maharashtra, Mantralaya, Mumbai.
2. **The Secretary**, Department of Forests, Govt. of Maharashtra, Mantralaya, Mumbai
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