

F. No. J-11011/377/2012-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Dated: 9th June, 2016

To

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M/s JSW Jharkhand Steel Limited,
B-236, Road No.-3, Ashok Nagar,
Ranchi, Jharkhand - 834002.

Subject: Integrated Steel Plant of (10 MMTPA), Captive Power Plant (900 MW) and Township by M/s JSW Jharkhand Steel Ltd., located near Village Barendra, Block Sonahatu, District Ranchi Jharkhand- Environment Clearance regarding.

Sir,

This has reference to your online application No. IA/JH/IND/18920/2013 dated 18th March, 2015, along with copies of EIA/EMP report and subsequent letter dated 24.04.2015 seeking Environment Clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. The ToRs to the project were awarded by the Ministry of Environment, Forest and Climate Change vide letter No. J-11011/377/2012-IA.II (I) dated 24th June, 2013 for preparation of EIA and EMP report. The proposed project activity is listed at S.No. 3(a) in primary metallurgical industry, under Category 'A' of the Schedule of EIA notification 2006 and appraised by the Expert Appraisal Committee (Industry).

2.0 M/s JSW Jharkhand Steel Limited has proposed to establish 10.0 Million Metric Tonnes Per Annum (MMTPA) capacity of Integrated Steel Plant (ISP) along with 900 MW Captive Power Plant (CPP) and Township, near Village Barendra, Block Sonahatu in Ranchi District of Jharkhand. The proposed project will be developed in an area of 3800 acres (1537.84 ha) in 7 villages. No forestland is involved.

3.0 It has been mentioned that the State Government, after getting the site assessment and feasibility report from MECON (A Government of India Enterprise) approved the project site vide order dated 22.05.2008. The proposed project site falls in latitude 23° 08' 45.2" N to 23° 11' 2.3" N and longitudes 85° 47' 30.2" E to 85° 50' 09.2" E at an elevation of about 220 m - 240 m above Mean Sea Level (aMSL). There are no ecologically sensitive areas, national parks or wildlife sanctuary within 10 km radius study area. Eleven protected forests and one reserved forest exist within the study area. The project area includes adequate area allocation for all technological and service units, dump area, raw water reservoir and greenbelt development as per statutory requirements.

4.0 The estimated power requirement of the plant is proposed to be met by (900 MW) captive power plant (CPP) to be located within the proposed plant complex.

5.0 The drainage network in the proposed plant site initiates from the hill range about 1.50 km towards north of the proposed plant site and have up to 3rd order streams joining Domra nadi running west-east along the southern boundary and joining Subarnarekha River. It is proposed to divert the flow safely in the development area of the plant site and leave natural course as it is in the open/green belt area maintaining the natural flow along the boundaries of development within proposed plant site.

6.0 The total water requirement for the proposed plant will be about 80 Million Gallons per day (MGD), i.e. about 15150 m³/hr including water requirement for the proposed CPP. About 46.7 MGD of the required water will be sourced from Subarnarekha river, which flows at a distance of about 2.4 km from the plant site in north direction and remaining 33.3 MGD of required water will be drawn from Chandil dam (downstream).

7.0 The total project cost will be about Rs. 35,000 Crores. For this project, JSW has signed a MoU with the Government of Jharkhand. It is proposed to invest about Rs. 1750 Crores on pollution control, treatment and monitoring systems, which includes Rs. 14 Crores for greenbelt development. The recurring cost of environmental measures will be Rs 105 Crores. The greenbelt will be developed along the periphery of the plant and all open spaces within the plant area covering an area of 1150 acres (465 ha) and vegetation density of about 2500 trees/ha.

8.0 The requirement of total manpower works out to about 5000 in phase-I and about 10,000 in final phase at 10.0 MMTPA production level. The proposed 10.0 MMTPA integrated steel plant will additionally generate more than 20,000 to 30,000 indirect secondary and tertiary employment. It is expected that a number of ancillary industries will develop near the proposed site, which will be mutually beneficial. A total budget of Rs. 175 crores with capital cost of Rs. 93.28 crores and recurring cost of Rs 81.72 crores is proposed for CSR activities.

9.0 Public Hearing for the proposed project was conducted on 21.09.2014 by Jharkhand State Pollution Control Board (JSPCB) in the presence of Additional District Magistrate, Ranchi district. Most of the issues raised by public were on CSR activities, environment pollution and employment.

10.0 The proposal was considered during the 37th meeting of Expert Appraisal Committee (Industry-I) held on 30th April-1st May, 2015 and during the 2nd meeting of EAC (Industry-I) held on 28th -30th December, 2015. After detailed deliberations, the EAC (I) recommended the project for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions while considering for accord of Environmental Clearance.

11.0 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 to the above mentioned proposal of 10 MMTPA of Integrated Steel Plant, 900 MW Captive Power Plant and Township of M/s JSW Jharkhand Steel Ltd., under the provision of EIA Notification dated 14th September, 2006, as amended, subject to strict compliance of the following Specific and General conditions:

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A. SPECIFIC CONDITION:

- i. The project proponent shall install 24x7 air monitoring devices to monitor air emission, as provided by CPCB and submit report to Ministry and its Regional Office.
- ii. The Standards issued by the Ministry vide G.S.R. No. 277(E) dated 31st March, 2012 regarding integrated iron and steel plant shall be followed.
- iii. Concrete floor shall be provided for storage of raw material to avoid leaching. Drainage channels all around the storage area should be constructed and the runoff should be treated in the treatment plant.
- iv. Full utilization of slag both BF and SMS should be implemented. The details should be submitted along with 6 monthly compliance report.
- v. No untreated effluent should be reused for any process.
- vi. Used oil shall not be used for lubrication. The same shall be disposed to the authorized vendor.
- vii. Air pollution control devices viz. Electrostatic precipitator (ESP), and bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm³.
- viii. In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant etc. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.
- ix. Gaseous emission levels including secondary fugitive emissions from all the sources shall 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 shall be followed.
- x. Carbon mono-oxide (CO) shall also be monitored along with other parameters and standards notified under Environment (Protection) Act shall be followed. The reports shall be submitted to the Ministry's Regional Office, CPCB and SPCB.
- xi. Efforts shall further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly.

- xii. All the effluents shall be treated and used for dust suppression and green belt development. No effluent shall be discharged outside the premises via drains and 'zero' discharge shall be adopted. Domestic wastewater will be treated in the Sewage Treatment Plant.
- xiii. At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. 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 Ministry's Regional Office.
- xiv. The proponent shall prepare a detailed CSR Plan for every year for the 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 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 RO. 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.
- xv. The Company shall submit their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/ procedure to bring into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.
- xvi. All the commitments made to the public during the Public Hearing / Public Consultation meeting shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office.
- xvii. Trucks carrying coal and other raw material shall be covered with tarpaulin to prevent spreading of dust during transportation.
- xviii. Green belt shall be developed in 33% of the project area within plant premises with 20-30 meters wide green belt on all sides along the periphery of the project area, along road sides, storage yards etc. by planting native and broad leaved species in consultation with local DFO and local communities as per the CPCB guidelines.

- xix. 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.
- xx. 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.
- xxi. The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.
- xxii. The proponent shall ensure that no wood should be burnt for meeting the fuel requirement.
- xxiii. The project proponent shall provide for LED lights in their offices and residential areas.
- xxiv. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2009. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office at Ranchi.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Jharkhand 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, Forests 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, PM_{2.5}, SO₂ and NO_x 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 Ranchi 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 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).

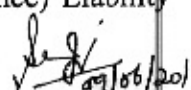
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. 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.
- 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 Ranchi. 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 Ranchi. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NO_x (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 e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Ranchi / CPCB / SPCB shall monitor the stipulated conditions.
- xiii. The environmental statement for each financial year ending 31st 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 respective Regional Office of the MOEFCC at Ranchi 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, Forests 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 Ranchi.
- 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.

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


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

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 Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Dr. Satish C. Garkoti)
Scientist 'F'

Copy to:-

1. The Secretary, Department of Environment, Government of Jharkhand.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, Jharkhand State Pollution Control Board, Town Administrative Building, HEC Dhurwa, Ranchi-824004.
4. The Additional Principal Chief Conservator of Forests (C) Ministry of Environment, Forest and Climate Change, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi - 834002.
5. Guard File / Record File/Monitoring file.


(Dr. Satish C. Garkoti)
Scientist 'F'