



**State Level Environment Impact Assessment Authority, Jharkhand.**

C – 170, Road No. 4, Ashok Nagar. Ranchi. Jharkhand.834 002.

Tel #: 0651-2243488; Fax #: 0651-2243487.

E-mail: [info@jseiaa.com](mailto:info@jseiaa.com); website: [www.jseiaa.org](http://www.jseiaa.org)

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Ranchi, Date: 31/12/2015

To: **Sri Shubhanand Mukesh,**  
**(Head Environmental Management),**  
**M/s Tata Steel Limited,**  
**Main Steel Works, Jamshedpur,**  
**Jharkhand – 831001.**

**Sub.:** Environmental Clearance for the project “**Integrated Municipal Solid Waste Management Facility of M/s TATA Steel Ltd (TSL) at Village Barasai alias Rangamatiya, Tehsil Potka, District East Singhbhum, Jharkhand**”.

Sir,

It is in reference to the project “Integrated Municipal Solid Waste Management Facility of M/s TATA Steel Ltd (TSL) at Village Barasai alias Rangamatiya, Tehsil Potka, District East Singhbhum, Jharkhand.” submitted by you for seeking prior Environmental Clearances (EC).

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on 18<sup>th</sup> to 24<sup>th</sup> December, 2015.

Jamshedpur is one of the oldest township and is considered as the largest existing industrial town in India. A major part of the city is under the Tata Steel lease and all the civic and allied services are provided by TSL under the lease agreement with Govt. of Jharkhand. Over all area under TATA Steels Ltd. is 64 Sq. Km, with a Population of 7 Lacs. In alignment with MSW Rules 2000, the estimated MSW generated from this township is 350 TPD. TATA Steel Ltd. has done due diligence in deciding on a single land unit for 28.68 acres at Rangamatiya Village, Tehsil - Potaka of East Singhbhum District in Jharkhand, approximately 22 kilometres from Jamshedpur city, for MSW Treatment and Landfill site development. The site is bounded by Latitude: 22° 37' 47" N & Longitude: 86° 10' 56" E. This site fulfils all the criteria of siting as per MSW (M&H) Rules 2000. TSL intends to develop an Integrated Municipal Solid Waste Management System, which would include modernized collection, transportation and development of a treatment and disposal facility. The project will take 24 months for completion and will be put into effect by Dec 2017 and the estimated budget allocated is 3589.17 lakhs.

The municipal solid waste will be collected through compactors then transported Processing site. After processing the inerts will be disposed into Sanitary landfill followed by capping.

The proposed project will include processing, composting, ancillary facilities and sanitary landfill which will be accommodated in 28.68 acres of land. Sanitary landfill, leachate treatment plant area and processing area will be in 16.38 acre, 3.0 acre and 0.3 acre respectively and the remaining will be covered by ancillary facilities like other suitable processing technologies, green belt development area and rain water harvesting area etc.

The total water requirement will be 80m<sup>3</sup>/day during operational stage which will be met through ground water sources and rain water harvesting structures.



The total power consumption for the proposed project is 300KW/day which will be sourced from grid power supply Jamshedpur State Electricity Board. 380 KVA DG set will be installed to meet the required power in case of power failure.

70 nos. of people will be employed during operational phase which include managerial staffs, semiskilled, drivers and unskilled persons. During construction phase the manpower requirement is expected to increase about 140 nos.

Six to Seven transfer stations have been demarcated for short distance transfer of solid wastes from households. Adequate training facilities will also be provided to the workers involved in the entire management system. Modern technology and mechanism with modern vehicles have been adopted for successful implementation of the project. The equipments like Wheelbarrows, wheeled bins, metallic storage bins, tippers, dumper placers, Tata Ace mini tippers, JCB, Poclain, Bobcat, Dozer, washing tankers with jet sprayers etc have been proposed. The proposed unit is state of art unit which will convert MSW to compost, and one of its kind in Jharkhand State.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its meeting held on 22.08.2015 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to the project **“Integrated Municipal Solid Waste Management Facility of M/s TATA Steel Ltd (TSL) at Village Barasai alias Rangamatiya, Tehsil Potka, District East Singhbhum, Jharkhand”** alongwith the following conditions-

**A. SPECIFIC CONDITIONS:**

**I. Construction Phase**

- i. “Consent to establish” shall be obtained from Jharkhand Pollution Control Board under Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974 and a copy of the same shall be submitted to the Ministry of Environment & Forests / State Level Environment Impact Assessment Authority before the start of any construction work at site.
- ii. All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
- iii. All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- iv. Construction spoils, including bituminous material and other hazardous material, must not be allowed to contaminate watercourses and the dump sites for such material must be secured, so that they should not leach into the ground water.
- v. Vehicles hired for bringing construction material to the site and other machinery to be used during construction should be in good condition and should conform to applicable air and noise emission standards.
- vi. Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.
- vii. Siting criteria as prescribed by CPCB / MOEF & CC shall be fulfilled.



## II. Operation Phase

- i. "Consent for Operate" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before commissioning of the integrated facility.
- ii. A green belt of minimum 15 m width shall be provided all around the periphery of the project site and 5 m on the side abutting to the ETP.
- iii. The gas generated from the Landfill facility shall be collected and disposed / utilized as per rules.
- iv. The leachate from the facility shall be collected and treated to meet the prescribed standards before its reuse.
- v. The proponent shall obtain necessary clearance from the Groundwater Authority for abstraction of ground water, if required.
- vi. The depth of the landfill site shall be decided based on the groundwater table at the site and permission regarding the same shall be obtained from MoEF/PPCB.
- vii. Periodical ground water/soil monitoring to check the contamination in and around the site shall be carried out as per the provisions of Municipal Solid Waste (Management & Handling) Rules, 2000/Jharkhand Pollution Control Board requirements.
- viii. Spraying of an appropriate herbal sanitizer shall be adopted for odour control in addition to its vacuum suction and destroying in furnace.
- ix. Proper shed shall be provided for the compost yard to prevent the rain water coming in contact with the material in the compost yard. Periodical ground water / soil monitoring to check the contamination in and around the site shall be carried out as per requirements of the Jharkhand Pollution Control Board.
- x. All the recommendations of the EMP shall be complied with letter and spirit.
- xi. The Municipal Corporation shall ensure that the project comply with all the provisions of the Municipal Solid Waste (Management and Handling) Rules, 2000.
- xii. Regular ambient air quality monitoring shall be carried out for all the parameters mentioned in the notification dated 16th November, 2009 of the Ministry of Environment & Forests.
- xiii. The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguard under the supervision of a Senior Executive.
- xiv. Entire organic material shall be converted into manure. Recyclable material likewise glass, steel etc., shall be sold to recycler. Only inert material which cannot be either composted or recycled shall be sent to the Engineered Sanitary Landfill facility.
- xv. Effective safeguard measures shall be taken by Municipal Corporation to ensure that the AAQ levels at various locations are within permissible limits as prescribed by MoEF/PPCB.
- xvi. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
- xvii. Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored.
- xviii. The Risk assessment and disaster management plan should be prepared and implemented.
- xix. The project proponent shall ensure door to door collection by all ULB's which will prevent the mixing of organic & inorganic waste fraction to check the odour problem.




- xx. Two-bin system (for organic & inorganic waste) shall be used in the towns. 50% of the generated waste shall go directly to the dumping sites, only the waste from the road sweeping shall come to primary collection points, wherein closed bins shall be provided along with one safai sewak, to prevent any littering in the densely populated areas. Daily lifting of these bins shall be ensured by the MC. Besides this, sanitizers shall be used for preventing of flourishing of flies & mosquitoes.
- xxi. TATA Steel Ltd shall ensure that there is no development works / human settlement within 500m radius from the secured landfill site in line with Municipal Solid Waste (Management and Handling Rules 2000).
- xxii. Necessary approval from competent authority shall be obtained, as required, with regard to movement of Municipal Waste from the collection point to landfill site.

**B. GENERAL CONDITIONS:**

- i. The project proponent should set up separate environmental management cell for effective implementation of the stipulated environmental safeguard under the supervision of a Senior Executive.
- ii. The project proponent should extend full support to the officers of SEIAA, Jharkhand / Regional / Head Office of JSPCB during inspection of the project for monitoring purposes by furnishing full details and action plan including action take reports in respect of mitigation measures and other environmental protection activities.
- iii. SEIAA, Jharkhand reserves the right to add additional safeguard measure subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- iv. In the event of a change in project profile or change in the implementation agency, a fresh clearance shall be obtained from SEIAA, Jharkhand.
- v. A copy of the environmental clearance letter shall also be displayed on the website of the Jharkhand State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
- vi. Appropriate mitigative measures shall be undertaken by TATA Steel Ltd. to prevent pollution of water in consultation with the Jharkhand State Pollution Control Board. It shall be ensured that there will be no littering of solid waste from vehicles and the leachate/ surface run-off to be generated shall be collected with the help of lined ditches & treated properly.
- vii. Officials from the Regional Office of Ministry of Environment & Forests, State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee / Jharkhand Pollution Control Board who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection.
- viii. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority.
- ix. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest (Conservation) Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, by Municipal Corporation from the competent authorities including Jharkhand Pollution Control Board and from other statutory bodies as applicable.
- x. TATA Steel Ltd. should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Jharkhand Pollution Control Board.

- xi. The advertisement should be made within seven days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office, Ministry of Environment & Forests, Ranchi.
- xii. These stipulations would be enforced among others under the provisions of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environmental (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- The proponent shall upload the status of 6 monthly compliance of the stipulated EC 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 MoEF, JSPCB, SEIAA Jharkhand. The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx , CO, Pb, Methane shall be monitored and displayed at a convenient locations.
- xiii. The post closure arrangement of the facility shall be made as per the Municipal Solid Waste (Management & Handling) Rules, 2000 and "Manual on Municipal Solid Waste Management" published by the Ministry of Urban Development and Municipal Corporation will be responsible for post closure of the facility and monitoring shall be done as per the Municipal Solid Waste (Management & Handling) Rules, 2000 / "Manual on Municipal Solid Waste Management" published by the Ministry of Urban Development/Jharkhand Pollution Control Board directions.
- xiv. Any Appeal against this Environmental 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.



27/12/2015

Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.