

F. No. J-11011/377/2013-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Dated: 28th November, 2016

To

M/s Tata Metaliks Ltd.
Vill. -Mahespur, PO- Samraipur
PS-Kharagpur Local Pachim Mednipur
West Bengal-721301

Email: tml@tatametaliks.co.in; Fax No.- 91-3222-233316

Subject: Expansion of steel plant from 3,45,000 TPA of Pig Iron Production to 5,00,000 TPA Hot Metal production and 10 MW waste heat recovery power plant of M/s Tata Metaliks Limited at Gokulpur village, PO Samraipur, Tehsil Kharagpur, District Pashchim Medinipur, West Bengal - Environment Clearance-regarding.

Sir,

This has reference to your letter No. 'Nil' dated 30th December, 2014 along with copies of EIA/EMP report seeking environment clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. The ToRs to the project were prescribed by the Ministry vide letter dated 19th May, 2014, for preparation of EIA/EMP report. The proposed project activity is listed at S.No. 3(a) in Metallurgical had industries under Category 'A' of the Schedule of EIA Notification 2006.

2.0 The environmental clearance for expansion of Pig Iron production from 3,20,000 TPA to 3,45,000 TPA to M/s Tata Metallic Limited was accorded by the Ministry vide letter No. F.No.J-110011/601/2008-IA-II(I) dated 24th June 2009. The expansion will be carried out within the existing plant area of 162 acres and no additional land is required for the proposed expansion. No forest land is involved. No national park or wildlife sanctuary exists within 10 km radius of the project boundary. Kalaikunda Air Force Station is located at a distance of 6.4 km, SW. Kashi river running West-East, 2 km North of plant and is the major stream in the area. Nearest town is Medinipur at a distance of 4.8 km (NE) and Khargpur at 4.0 km (S). The greenbelt has already been developed in an area of 54 acres, which constitutes more than 33% of the total plant area of 162 acres. It has been proposed to maintain the existing greenery and develop further. Cost of the project Rs.125.686 Crores. The EMP cost will be 8.9 crores. Total manpower required during the operation phase is 25 people. Following table shows the capacities for the existing and the proposed project:

Sr. No.	Particulars	Existing (Phase-I)	Expansion (Phase-II)
1	Production of Hot Metal /Pig Iron	MBF-1 – 215 m ³ (Working Volume) MBF-2 – 215 m ³ (Working Volume) <u>Auxiliaries</u> CPP1- 2.76 MW CPP2- 4.0 MW Sinter Plant- 40.5 m ² capacity	MBF-1 from 215 m ³ to 259 m ³ (Working volume) MBF-2 from 215 m ³ to 259 m ³ (Working Volume) 10 MW WHR power plant
2	Production capacity of the plant	3,45,000 TPA (Pig Iron)	5,00,000 TPA (Hot Metal)

3.0 The raw material are sinter, coke, iron ore, flux, coke breeze and iron ore fines transported through the railway siding. Following table shows the details of the raw material:

Raw Materials	Existing Quantity (MTPA)	Proposed Quantity (MTPA)	Total Quantity (MTPA)	Source	Mode of transport
Sinter	0.384	0.1440	0.528	In-house (from own sinter plant)	Conveyor belt
Coke	0.252	0.1033	0.3553	Japanese, Chinese, Domestic (KSPL, Bengal Energy)	Rail/Road
Iron Ore	0.300	0.1167	0.4167	TSL Noamundi, Joda mines	Rail
Flux (MBF + Sinter plant)	0.1769	0.0165	0.1934	Katni, Gomardih	Rail/Road
Coke Breeze	0.0300	0.0032	0.0332	Own generation, Ennore, Bengal Energy	Road
Iron Ore Fines	0.4320	0.0180	0.4500	Own generation, Nomundi, Khanband	Rail

4.0 High efficiency air pollution control equipment like ESP and Bag Filters has been installed and propose to augment the gas cleaning plant and put bag filters. Sinter, Coke, Iron Ore, Flux (MBF + Sinter Plant), Coke Breeze and Iron Ore Fines are covered and will be maintained. Water sprinkling system are already in place & will be provided in remaining dust prone areas & inside roads. Dry fog dust suppression system are already present in RMHS & will be installed in other dust prone areas. The stack emission are & will be maintained within stipulated limits.

5.0 The water requirement for the project is estimated as 5600 m³/day, which will be sourced from ground water. Waste water generated from blast furnace gas cleaning plant is treated in thickener or clarifier by adding flocculating agent and clear water recycled to GCP recirculation tank for reuse. Waste water treatment plant in canteen containing 6 nos of meshes

(for solid waste separation), Pressurized Sand Filter, Activated Carbon Filter, Cartridge Filter and Chemical dozer to treat the canteen waste water for using it for road dust suppression. Waste water generated from MBF & CPP areas are collected and planned to be treated for using as make up to reduce ground water consumption further.

6.0 Public hearing was held on 12.12.2014. The major issues discussed inter-alia include employment, development of local road conditions, CSR activities to other villages of the locality where no such activities have been initiated in the past, etc.

7.0 The proposal was considered by the Expert Appraisal Committee (Industry-I) during its 33rd meeting on 10th - 11th February, 2015, 43rd meeting held on 2nd - 3rd July, 2015, 3rd meeting of reconstituted Expert Appraisal Committee (Industry-I) held on 28th - 29th January, 2016 and in the 9th meeting held on 27th - 29th July, 2016 and recommended the project for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions.

8.0 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 expansion project from 3,45,000 TPA of Pig Iron production to 5,00,000 TPA Hot Metal production and 10 MW waste heat recovery power plant of M/s Tata Metaliks Limited, under the provisions of EIA Notification, 2006, as amended, subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITION:

- 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. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), and bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm³ by installing energy efficient technology.
- iii. 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. Bag filters shall be provided to hoods and dust collectors. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.
- iv. 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.
- v. Multi stage scrubber, cyclone and bag filters etc. to control particulate emissions within the prescribed limits from coke oven shall be provided. 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.

- vi. 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.
- vii. 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.
- viii. Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional office, SPCB and CPCB.
- ix. Prior approval of this Ministry shall be obtained in case change of fuel.
- x. Risk Assessment and Disaster Management Plan for the project focussing on Disaster Prevention shall be prepared and implemented in conjunction with District Disaster Management Plan.
- xi. A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
- xii. Coal and coke fines shall be recycled and reused in the process. The breeze coke and dust from the air pollution control system shall be reused in sinter plant. The waste oil shall be properly disposed of as per the Hazardous Waste (Management, Handling, Handling and Transboundary Movement) Rules, 2008.
- xiii. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants and Coke Oven Plants shall be implemented.
- xiv. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.
- 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. 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.
- xviii. Haulage roads shall be sprinkled with water at regular intervals for which water tankers with sprinkler arrangement are deployed. Regular sweeping of roads shall be practiced with vacuum sweeping machine or water flushing to minimize dust.
- xix. Trucks carrying coal and other raw material shall be covered with tarpaulin to prevent spreading of dust during transportation.
- xx. Greenbelt of 20-30 meters in width and greenery shall be developed around storage yards, around plants, either side of roads and around the periphery of the industry as per CPCB Guidelines

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the West Bengal 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 PM_{10} , $PM_{2.5}$, SO_2 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 Bhubaneswar 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 form 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 Bhubaneswar. 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 MOEF&CC at Bhubaneswar. 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 Bhubaneswar / 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 MOEF&CC at Bhubaneswar 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 Bhubaneswar.
- 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.
9. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
11. 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)
Director

Copy to:-

1. The Secretary, Department of Environment, Government of West Bengal.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, West Bengal State Pollution Control Board, Paribesh Bhawan, Bldg. No. 10-A, Block- LA, Sector 3, Salt Lake City, Kolkata - 700 091
4. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751023.
5. Guard File / Record File/Monitoring file.


(Dr. Satish C. Garkoti)
Director