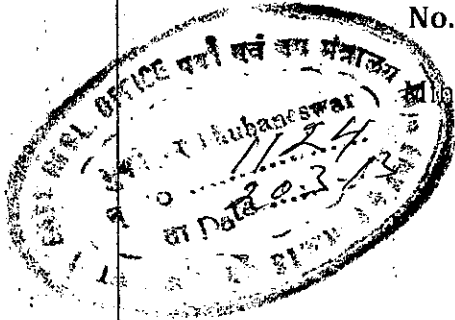


New. 103 - 404

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By Speed Post

No.J-11015/426/2008- IA.II(M)
Government of India
Ministry of Environment & Forests



Paryavaran Bhawan
C.G.O. Complex, Lodi road
New Delhi- 110 003

Date: 27th February, 2013

To

M/s.Tata Steel Limited
Jeevan Bharati Building
Tower-I, 10th Floor
124, Connaught Place
New Delhi- 110 001
Email: chanakya@tatasteel.com

Subject: Lagla and Mahal Sand Lease Mining Project of M/s. TATA Steel Limited located in Village(s) Lagla and Mahal, District Bokaro, Jharkhand environmental clearance regarding.

Sir,

This has reference to your letter No. TSLDEL/475/2010 dated 09.12.2010 and subsequent letter dated 24.02.2011 on the subject mentioned above. The project was earlier prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 25.11.2008 for undertaking detailed EIA study for the purpose of obtaining environmental clearance. The proposal is for renewal of mine lease, which fell due in September, 2006 for production of 1,00,000 tonnes per annum (TPA)(0.1 million TPA) of sand (major mineral) from the bed of river Izri, a tributary of river Damodar for use in their underground coal mine for stowing. It is a Category 'B' project, however, in the absence of SEIAA, Jharkhand, the proposal has been considered in the Ministry of Environment and Forests.

2. The total mine lease area of the project is 10.92 ha, which is a Government wasteland lying in a river bed of Izri and Gowri rivers. This river is meeting the Damodar River in the Southern bank. The Damodar River is flowing from North West to South East. No forestland is involved. Area proposed for mining is 3.74 ha. The mining will be confined to collection and gathering of sand from the river bed and transporting the sand to the colliery by covered trucks.

3. No National park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc; are reported to be located in the core and buffer zone of the mine and that the area does not report to form corridor for schedule-I fauna.

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M.P. Mahal
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4. The mine working will be opencast by manual method without involving drilling and blasting. The targeted production capacity of the mine is 1,00,000TPA (0.1 million TPA) of sand from the river bed. As this deposit is replenishable every year during the monsoon floods, therefore, the life will continue till the period of lease and its subsequent renewals. Approximately 462TPD of sand will be transported through the road to a distance of 18 km. The topography of the area is undulated and reported to lie between 23°38'N Latitude and 86°23' to 86°24' E Longitude in Survey of India topo sheet No.731/6, at an elevation above mean sea level ranging from 140m to 160m. The general slope of the area is towards East. The Northern part of the area constitutes a part of the catchments of the Damodar River and drained by a few seasonal nallahs. It has been stated that the working will be confined to a maximum 2m depth. The peak water requirement for the project is estimated as 80m³ per day, which will be obtained from the nearby mines. The pebbles will be laid along the river banks to prevent erosion of the bank. No displacement of population and R&R has been envisaged.

5. The public hearing of the project was held on 16.06.2010 for production of 1LTPA of sand. The Indian Bureau of Mines had approved mining plan of the project on 07.09.2006 over an area of 10.92 ha. The capital cost of the project is Rs.25Lakhs and the annual recurring cost towards the environmental protection measures is proposed as Rs.5Lakhs. It has been stated that there is no court case to the project or related activity.

6. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and hereby accords environmental clearance under the provisions thereof to the above mentioned Lagla and Mahal Sand Lease Mining Project of M/s TATA Steel Limited for an annual production capacity of 100,000tonnes (0.1million tonnes) of sand from river beds by the opencast manual method involving total mine lease area of 10.92ha, subject to implementation of the following conditions and environmental safeguards.

A. Specific Conditions

- (i) The project proponent shall obtain Consent to Establish and Consent to Operate from the Jharkhand State Pollution Control Board, Orissa and effectively implement all the conditions stipulated therein.
- (ii) The project proponent shall comply with Section 3 of the Mines Act
- (iii) Sand collection shall be done at the middle/main stream and not at the bank of the river to avoid any change of river course due to the project.
- (iv) Particulate level (PM_{2.5}) shall be monitored regularly and the results placed in the public domain.
- (v) The project proponent shall identify the degraded area within the mine lease and undertake plantation/afforestation in the area so identified by planting the native species.

- (vi) Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- (vii) The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times a year pre-monsoon (April-May), monsoon (August), post-monsoon(November) and winter (January), once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.
- (viii) The project proponent shall obtain necessary prior permission of the competent authorities for draw of requisite quantity of water (surface water and groundwater), if any, required for the project.
- (ix) Appropriate mitigative measures shall be taken to prevent pollution of the river in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease in the river from the vehicles used for transportation.
- (x) Vehicular emissions shall be kept under control and regularly monitored. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- (xi) No drilling and blasting operation shall be carried out.
- (xii) Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
- (xiii) 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.
- (xiv) 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.

- (xv) The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM₁₀) and NO_x in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH, Fecal Coliform and total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.

- (xvi) The Company shall submit within 3 month their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/procedure to bring into focus any infringements/ 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 EC 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.

B. General conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.
- (ii) No change in the calendar plan including excavation, quantum of sand from river bed and waste should be made.
- (iii) Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department and effectively implemented.
- (iv) At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e. PM₁₀) and NO_x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- (v) Data on ambient air quality [(RSPM (Particulate matter with size less than 10 micron i.e. PM₁₀) and NO_x] should be regularly submitted to the Ministry including its

Regional office located at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board once in six months.

- (vi) Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- (vii) Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc should be provided with ear plugs/muffs.
- (viii) Industrial waste water (workshop and waste water from the mine) should 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. Oil and grease trap should be installed before discharge of workshop effluents.
- (ix) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.

Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- (x) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- (xi) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.
- (xii) The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (xiii) The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- (xiv) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by email) to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall

upload the status of compliance of the environmental clearance condition, 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 Ministry of Environment and Forests, Bhubeswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.

- (xv) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / 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 website of the Company by the proponent.
- (xvi) The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's office / Tehsildar's Office for 30 days.
- (xvii) The environment 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 clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.
- (xviii) The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the Ministry of Environment and Forest at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of the Ministry located at Bhubaneswar.

7. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

8. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment Protection Act 1986.

9. The above conditions will 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 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India / High Court of Jharkhand and any other Court of Law relating to the subject matter.

10. 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.


(Dr. Saroj)
Director

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) The Secretary, Department of Environment, Government of Jharkhand, Secretariat, Ranchi.
- (iii) The Secretary, Department of Mines, Government of Jharkhand, Secretariat, Ranchi.
- (iv) The Secretary, Department of Forests, Government of Jharkhand, Secretariat, Ranchi.
- (v) The Principal Chief Conservator of Forests, Biodiversity Conservation cum Chief Wildlife Warden, Government of Jharkhand, Secretariat, Ranchi.
- (vi) The Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (EZ), A/3, Chandra Shekar, Bhubaneswar - 751 023.
- (vii) The Chairman, Central Pollution Control Board, CBD0-Cum Office Complex, East Arjun Nagar, New Delhi - 110 032.
- (viii) The Chairman, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), HEC Campus, P.O. Dhurwa, Ranchi - 834 004, Jharkhand.
- (ix) The Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Baracks, K.G. Marg, New Delhi - 110 001
- (x) The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur - 440 001
- (xi) The District Collector, Bokaro District, Jharkhand.
- (xii) EI Divison, Ministry of Environment and Forests, EI Division, New Delhi
- (xiii) Monitoring File
- (xiv) Guard File
- (xv) Record File


(Dr. Saroj)
Director