

No.J-11015/257/2010-IA.II (M)  
Government of India  
Ministry of Environment & Forests

Paryavaran Bhavan,  
C.G.O. Complex, Lodi Road,  
New Delhi-110 003.

Dated the 19<sup>th</sup> April, 2012

To  
M/s Thakur Industries  
116, Raghavendra Colony  
Patel Nagar, Bellary  
Karnataka  
E-mail: [thakurFe@rediff.com](mailto:thakurFe@rediff.com)  
T.No.: 09448060012

Subject: Iron Ore Beneficiation Plant of M/s Thakur Industries, located at Village Hirebaganal, Koppal Taluk & District, Karnataka - environmental clearance regarding.

Sir,

This has reference to your letter No. Nil dated 11.03.2011 and subsequent information dated 17.11.2011 on the subject mentioned above.

2. The proposal is for setting up of an iron ore beneficiation plant at village Hirebaganal, Karnataka with a throughput capacity of 0.6 million TPA with wet process filter cake technology. The low grade ore will be obtained locally and through e-auction only from the districts of Bellary, Chitradurga and Tumkur till the ban on mining imposed by Hon'ble Supreme Court is in force in these districts. The land requirement for the project is 17.5 acres (7.085 ha). No forest land is involved. The land is reported unirrigated land. The project site is lying between Latitude- 15° 18' 52" to 15° 19' 01" N and Longitude- 76° 14' 08" to 76° 14' 18" E. The water requirement is estimated as 600 kld, which will be obtained from bore wells. Out of the 600 kld, 530 kld will be recycled water and 70 kld will be fresh water. There would be no discharge of water outside the project. Power requirement will be met from GESCOM. The groundwater level varies from 10- 20 m bgl. It was also stated that water logging conditions do not prevail in the area and withdrawal of ground water will not have any adverse impact on groundwater aquifer. There will be no tailing pond. Rainwater harvesting is proposed. Tungbhadra Reservoir is at a distance of about 7 Km and Tungbhadra backwater is at 3.0 km. It was stated that no rare, endangered and endemic species exists in the study area. No National Park/Wildlife Sanctuary/Tiger reserve/Elephant reserve is reported within 10 km from the boundary of the project. It was reported that there is no court case pending against the project. Public hearing has been held on 25.2.2011. Cost of the project will be Rs. 12.00 Crores. Cost of EMP will be Rs. 0.30 crore (Capital) and

Rs. 0.32 crore per annum. CSR budget will be Rs. 0.50 crore per annum besides Rs. 0.015 crore for Occupational Health and safety measures.

3. The Terms of Reference for the project were issued on 4.10.2010 for preparation of EIA and EMP. The Public hearing was held on 25.2.2011 at project site village Hirebaganal, Koppal taluk & distt. by Karnataka State Pollution Control Board.

4. The proposal has been considered by the Expert Appraisal Committee for Mining based on the project documents and has recommended for the grant of environmental clearance for the said Iron Ore Beneficiation Plant. Accordingly, the Ministry of Environment and Forests hereby accords environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to strict compliance of the terms and conditions as follows:-

**A. Specific conditions:**

- (i) The project proponent shall obtain prior Consent to Establish and Consent to operate for the project from the Karnataka State Pollution Control Board and shall effectively implement all the conditions stipulated therein.
- (ii) The raw material may be sourced from these districts (Bellary, Chitradurga and Tumkur in Karnataka) through e-auction mode only and not by other means till a ban on mining activities is there and in total compliance of orders of the Hon'ble Supreme Court in the matter.
- (iii) The water recovery and spill way system shall be so designed that the natural water resources are not affected and that no spill water goes into the nearby water source i.e Tungbhadra Reservoir and / or Tungbhadra back water.
- (iv) The project proponent shall carry out conditioning of the ore with water to mitigate fugitive dust emission.
- (v) Periodic monitoring of groundwater quality around the project site shall be undertaken and records maintained. In case, any adverse impact is observed, necessary safeguard measures shall be taken immediately.
- (vi) The project proponent shall obtain necessary prior permission of the competent authority for drawl of requisite quantity of ground water required for the project. A copy of the same shall be submitted to this Ministry and its Regional Office at Bangalore.
- (vii) The road shall be paved and made pucca to control fugitive dust.
- (viii) 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 crusher zone, loading and unloading point and all transfer points during handling of the ore. Extensive water sprinkling shall

be carried out on 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.

- (ix) The filter cakes generated during the beneficiation process shall be stacked at earmarked site only and it should not be kept active for a long period.
- (x) Catch drains and siltation ponds of appropriate size shall be constructed around the filter cake stack yard and raw material dump area to prevent run off of water and flow of sediments directly into nearby water bodies. The water so collected should be utilized for watering the area, roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.
- (xi) As part of the post project monitoring of ambient air quality, there shall be at least one monitoring station within 500m of the project in pre-dominant down wind direction.
- (xii) The ground water quality around the project area shall be monitored regularly and records maintained. The monitoring network shall be designed in consultation with State Ground Water Board/Central Ground Water Authority.
- (xiii) Plantation shall be raised in an area of 2.00 ha including a green belt of atleast 10m width all around the plant by planting the native species in consultation with the local DFO/Agriculture Department.
- (xiv) Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers in and around the project area during the beneficiation process. The periodic monitoring [(at least four times in 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 Bangalore, 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.
- (xv) The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board. Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.
- (xvi) Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mineral transportation to the plant and from the plant. The mineral transportation

shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.

- (xvii) Mineral handling area shall be provided with 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.
- (xviii) ETP shall also be provided for the workshop and the wastewater generated during the beneficiation process, if any.
- (xix) The project authorities should undertake sample survey to generate data on pre-project community health status within a radius of 1 km from the proposed project.
- (xx) Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Health records of the workers shall be maintained.
- (xxi) Pre-placement medical examination and 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.
- (xxii) The R&R of the project affected people shall be carried out as per the NPRR. The plan shall be prepared within three months in consultation with State Government and a copy shall be submitted to the Ministry and to the Regional Office of the Ministry at Bangalore.
- (xxiii) The project proponent shall take all precautionary measures during operation of plant for conservation and protection of flora and fauna.
- (xxiv) 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.
- (xxv) The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM<sub>10</sub>), NO<sub>x</sub> in the ambient air within the impact zone shall be monitored periodically . Further, quality of discharged water shall also be monitored [(TDS, DO, PH 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](http://www.envfor.nic.in) shall also be referred in this regard for its compliance.



**B. General Conditions:**

- (i) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- (ii) 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 10micron i.e., PM<sub>10</sub>), NO<sub>x</sub> 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.
- (iii) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM<sub>10</sub>), & NO<sub>x</sub> should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months.
- (iv) Measures shall be taken for control of noise levels below 75 dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs.
- (v) Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May 1993 and 31<sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- (vi) 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.
- (vii) 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.
- (viii) The project authorities should inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (ix) 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 Bangalore.
- (x) The Regional Office of this Ministry located at Bangalore 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.

- (xi) 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 e-mail) to the Ministry of Environment and Forests, its Regional Office Bangalore, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental 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 Ministry of Environment and Forests, Bangalore, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.
- (xii) 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.
- (xiii) 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.
- (xiv) The environmental statement for each financial year ending 31<sup>st</sup> 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 Regional Office of the Ministry of Environment and Forests, Bangalore by e-mail.
- (xv) The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue 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 web site of the Ministry of Environment and Forests at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bangalore.

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

6. The Ministry may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, it is found/ come to the knowledge of this Ministry that the


project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.

7. 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.

8. 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 Chhattisgarh and any other Court of Law relating to the subject matter.

9. The environmental statement for each financial year ending 31<sup>st</sup> 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, Bhopal by e-mail.


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.

  
19/4/2012  
(OM PRAKASH)  
DEPUTY DIRECTOR

**Copy to:**

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) Secretary, Department of Environment, Government of Karnataka, Bangalore.
- (iii) Secretary, Department of Mines and Geology, Government of Karnataka, Bangalore.
- (iv) Secretary, Department of Forests, Government of Karnataka, Bangalore.
- (v) Chief Conservator of Forests, Regional Office (SZ), Kendriya Sadan, 4<sup>th</sup> Floor E&F, Wings 17<sup>th</sup> Main Road, 1 Block, Koramangala, Bangalore-560 034.
- (vi) Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.

- (vii) Chairman, Karnataka State Pollution Control Board, Parisara Bhawan, 4<sup>th</sup> & 5<sup>th</sup> Floor, 49, Church Street, Bangalore - 560 001.
- (viii) Member Secretary, Central Ground Water Authority, A2, W- 3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- (ix) Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur- 440 001.
- (x) District Collector, Koppal District, Karnataka
- (xi) EI Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
- (xii) Monitoring File/ Guard File/ Record File.

  
(OM PRAKASH)  
Deputy Director