

F. No. J-11011/870/2008- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

Paryavaran Bhawan  
CGO Complex, Lodhi Road  
New Delhi – 110 003  
E-mail: ms.industry-mef@nic.in  
Tele/fax: 011 – 2436 3973  
Dated: July 28<sup>th</sup>, 2010

To,

M/s Balmukund Sponge & Iron Limited  
603, Shanti Kunj Apartment, Chajjubagh,  
Patna- 800 001

Fax: 033 – 24367668

E-mail: [shreyase@sancharnet.in](mailto:shreyase@sancharnet.in)

**Sub:** Pig Iron Plant (39,000 TPA) at Majhaladih P.O. Gadi Srirampur District Giridh in Jharkhand by **M/s Balmukund Sponge & Iron Limited.**-Reg. Environmental Clearance

Sir,

This has reference to your letter no. MOEF/BHR/10 dated 15<sup>th</sup> March, 2010 along with copies of final EIA report and public hearing report seeking environment clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that M/s Balmukund Sponge & Iron Ltd. have proposed for the Pig iron plant (39,000 TPA) at Majhaladih, P.O. Gadi Srirampur, District Giridh, Jharkand. One mini blast furnace (MBF, 65 M<sup>3</sup>) will be installed to manufacture Pig iron (39,000 MTPA). Total project area is 24.03 acres of which 2.28 acres has been earmarked for the pig iron plant. About 7.92 acres of plant area will be developed under green belt. No R & R is involved. Protected forest (3.5 & 15 km, SW-NE), Reservoir (9.5 km. N), Usri River (2 km.) Barakar River (10 km.), State Highway (0.75 km.) are located within 10km of the project site. No national Park/wild life sanctuary/reserve forest is located within 10 km radius of the project site. Total cost of the project is Rs.18.85 Crores.

3. To control particulate emissions from the mini blast furnace, gas cleaning plant comprising dust catcher and venturi scrubbers will be installed. Dry fog system for suppression of dust at the material handling and transfer points for coal, cement and mineral processing will be installed. BF gas will be used in stoves as fuels as well as flare stack. Water requirement of 10 m<sup>3</sup>/hr will be met from the ground water source. Permission for drawing the water required will be obtained from Central Ground Water Authority. No liquid effluent will be generated due to adoption of closed loop system. Necessary treatment will be done before recycling / reusing water. GCP water will be neutralized in neutralization tank. Domestic wastewater (1.5m<sup>3</sup>/d) will be partly used for greenbelt development and partly disposed off through soakpit. No effluent will be discharged and 'zero' discharge will be adopted. Green belt will be developed in 33% of the plant area. It is proposed to harvest the rain water from the roof tops and the surface water.

*P. Anuj*

4. Dust / ash from dust catcher ( 390TPA) will be partly reused and partly used for land filling or internal road construction. BF slag (15600 TPA) will be granulated and sold to cement manufacturers. Scrap will be sold out. Waste oil and lubricants will be provided to authorized recyclers / reproprocessors. Acoustic enclosures, reduction of noise at source, isolating noise-producing equipment etc. will be used to control noise. Total power requirement will be 800 KVA. One DG set (500 KVA) will be installed for emergency requirement. LDO/HSD will be used as fuel for pre-heating of stoves.

5. Public hearing/Public consultation meeting was conducted by the Jharkhand Pollution Control Board on 10<sup>th</sup>, January, 2010. The Committee deliberated upon the issues raised during the public hearing regarding effective pollution control measures, welfare of the local people and provision of employment etc. and have satisfactorily been incorporated in the final EIA/EMP report.

6. All the pig iron plants are listed at S.N. 3(a) under Primary Metallurgical Industries under Category 'A' and appraised at the Central level.

7. The proposal was considered by the Expert Appraisal Committee-1 (Industry) in its 11<sup>th</sup> meeting held during 25<sup>th</sup> June, 2010. The Committee recommended the project for environmental clearance. Public hearing of the project was held on 10<sup>th</sup> January, 2010.

8. Based on the information submitted by you, presentation made by you and consultant, Shiva Test House, Patna, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006 subject to strict compliance of the following Specific and General conditions:

#### **A. SPECIFIC CONDITONS**

- i. To control the emissions, the emissions from the Mini blast furnace, Gas cleaning plant comprising dust catchers and venture scrubbers shall be installed to control the emissions within the prescribed standards.
- ii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 should be followed.
- iii. 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 30<sup>th</sup> May, 2008 and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.
- iv. Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product. Efforts shall also be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions shall be regularly monitored and records kept.

*P. Bhujarera*

- v. Permission for drawal of 10m<sup>3</sup>/hr of water shall be obtained from the Central Ground Water Board/Central Ground Water Authority and may be applicable in this case.
- vi. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.
- vii. 'Zero' effluent discharge should be strictly followed and no wastewater shall be discharged outside the premises.
- viii. The water consumption shall not exceed as per prescribed standards for the steel plants.
- ix. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Accretions shall also be properly utilized.
- x. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. 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 Bhubaneswar.
- xi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.
- xii. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 10<sup>th</sup> January, 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.
- xiii. At least 5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should 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.
- xiv. Risk and Disaster Management Plan alongwith the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.
- xv. The company shall provide housing for 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.

*P. Akhujara*

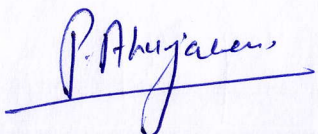
**A. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Jharkhand State 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 and Forests.
- iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19<sup>th</sup> May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.
- iv. 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<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub> 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.
- v. Industrial wastewater shall be properly collected, 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. 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).
- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- viii. The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- ix. 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.
- x. Requisite amount 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 and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office

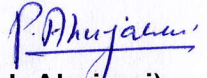
*P. Ahujara*

of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.

- xi. 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.
- xii. 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 at Bhubaneswar. The respective Zonal Office of CPCB and the CECB. The criteria pollutant levels namely; PM10, SO<sub>2</sub>, NO<sub>x</sub> (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.
- xiii. 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 MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB / SPCB shall monitor the stipulated conditions.
- 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 alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.
- xv. 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 and Forests 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.
- xvi. 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. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.
12. 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. P.L.Ahujarai)  
Scientist -F

**Copy to:-**

1. Secretary, Department of Forest, Govt. of Jharkhand, Nepal House, Ranchi.
2. Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office, (EZ) A-3, Chandrashekharpur, Bhubaneswar-715023.
3. Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar New Delhi – 110 032.
4. Chairman, Jharkhand State Pollution Control Board, T.A Division Building (Ground Floor) HEC Campus, Dhurwa, Ranchi -834004.
5. Director (Monitoring Cell), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File/Monitoring File/Record File.

  
(Dr. P. L. Ahujarai)  
Scientist 'F'