F. No. J-11011/ 866 /2007- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated: June 18, 2010

To,

M/s Swati Sponge & Iron Pvt. Ltd.
1&2 Old Court House Corner,
Kolkata 700001
West Bengal

Sub: Pig Iron Plant (39,600 TPA) and Hard Coke Plant (33,000 TPA) at Village Mohanpur, District Giridih, Jharkhand by M/s Swati Sponge & Iron Pvt. Ltd. – reg environmental clearance

Sir,

This has reference to your letter no. nil dated 9th November, 2009 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 Swati Sponge & Iron Pvt. Ltd. have proposed to install Pig Iron Plant (39,600 TPA) and Hard Coke Plant (33,000 TPA) at Village Mohanpur, District Giridih, Jharkhand. Total land requirement will be **6.93 acres**, which has already been acquired. Total project cost is **Rs. 14.00 Crores and Rs. 11.00 Lakhs** will be incurred towards pollution control measures. River Ushri and Barakar are flowing at a distance of 2.5 km and 9.5 km respectively. Protected forest is at a distance of 2.5 km from the plant. No reserve forest/national park is located within 10 km.

3. It is noted that water requirement of 170 m^3/day will be met from the ground water source. Permission for drawl of ground water has been accorded by the CGWA, Ministry of Water Resources vide letter no. 21-4(25)/CGWA/MER/2009 1528 dated 29th January, 2010. There will be no discharge of effluent outside the plant area. Domestic waste water will be disposed through soak pit. Non-recovery type of coke oven will be installed. Waste gases from the combustion will be dispersed through a stack. The quench car will be equipped with the emission control devices that spray water over the hot coke to suppress the release of particulate emission. Bag filters will be installed for control of emissions from blast furnace and dust from charging section of mini blast furnace. In the hard coke manufacturing unit, particulate and gaseous emission will be controlled by installing wet scrubber, ventury scrubber and cyclone separator.

4. Solid waste will be generated in the form of slag (55.2 MTPD) from mini blast furnace which will be granulated and sold to cement manufacturing plant. Dust (1.7 MT/day) from bag filter will be used for land filling. Waste (0.68 MTPD) from hard coke unit will be used by briquette manufacturers. Total green belt will be developed in 33% of plant area. 525 KVA power will be sourced from DVC. DG set (1x250 KVA) will be used for power backup.

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

6. The proposal was considered by the Expert Appraisal Committee-1 (Industry) in its 9th meeting held during 8th April, 2010. The Committee sought additional information for reconsideration of project. On receipt of additional information, proposal was reconsidered by the EAC meeting in its 10th Meeting held during 17-18th May, 2010. The Committee recommended the project for environmental clearance. Public hearing of the project was held on 15th June, 2009.

7. Based on the information submitted by you, presentation made by you and consultant, Eco Care, Environment Laboratory , Asansol, West Bengal, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS :

i) Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided.

ii) Stack monitoring facilities for all the major stacks and adequate air pollution control systems viz. dust catchers or cyclones, Multi stage scrubber, bag filters etc. to control particulate emissions to 100 mg/Nm^3 and 50 mg/Nm3 from coke oven and pig iron plant respectively shall be provided. Carbon mono-oxide (CO) shall also be monitored alongwith other parameters and standards notified under E (P) Act shall be followed. The reports shall be submitted to the Ministry's Regional Office at the Bhubaneswar, Central Pollution Control Board (CPCB) and Jharkhand Pollution Control Board (MPCB).

iii) Multi stage scrubber shall be installed to control gaseous and dust emission from the coke oven stack. Dry quenching shall be adopted and measures shall be taken to prevent leakages from the coke oven plant.

iv) The waste heat from the MBF gas and hard coke unit shall be utilized for drying and preheating of raw material .

v) The prescribed emission standards for coke oven plants, as notified vide notification no. GSR 46 (E) dated 3rd February, 2006 and subsequently amended shall be complied with.

vi) 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, coal handling plant and coke sorting plant of coke oven plant. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.

vii) Secondary fugitive emissions shall be controlled within the prescribed limits, regularly monitored and records maintained. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.

viii) 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.

ix) Total requirement of the water from ground shall not exceed 170 m^3/day. All the treated wastewater shall be recycled for dust suppression and green belt development. Domestic wastewater shall be treated in septic tank followed by soak pit and used for green belt development. Zero effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.

x) Efforts shall be made to make use of rain water harvested. 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.

xi) Waste from the hard coke unit, shall be provided to the briquette manufacturing units. Coal and coke fines shall be recycled and reused in the process. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. The bag filter dust shall be used for landfilling. The waste oil shall be properly disposed off as per the Hazardous Waste (Management, Handling, Handling and Trabsboundry Movement) Rules, 2008.

xii) As proposed, green belt shall be developed in 33% of plant area within and around the project site to mitigate the impact of fugitive emissions as per the CPCB guidelines in consultation with local DFO.

xiii) The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Coke Oven Plants shall be implemented.

xiv) All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 15th June, 2009 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar..

xv) At least 5 % of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details alongwith time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.

xvi) 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.

xvii) 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.

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 19th 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.

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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 PM10, 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.

v. 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.

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 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.

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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_2, NOx (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 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 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'