

F. No. J-11011/728/2008- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
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New Delhi - 110 003
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Dated: June 21, 2010

To,

The Managing Director
M/s Surendra Mining Industries (P) Ltd
Barhamusa, P.O. Pandurisila, Bonai,
District Sundargarh-770038, Orissa

Sub: Expansion of Steel Plant [Sinter (2,62,000 TPA), Mini Blast Furnace, Steel (2,50,000 TPA), Rolling mill (2,25,000 TPA)] and Captive Power Plant (16 MW) at Village Barahamusa, Taluk Bonai, District Sundargarh, Orissa by M/s Surendra Mining Industries (P) Ltd- reg environmental clearance

Sir,

This has reference to your letter no. nil dated 4th January, 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 Surendra Mining Industries (P) Ltd. have proposed to expand the capacity of steel plant at Village Barahamusa, Taluk Bonai, District Sundargarh, Orissa. Existing DRI plant was installed in 2006. Total land required for the proposed expansion will be 200 acres, of which 130 acres is already acquired and 70 acres is under acquisition. Amruhi RF, Rakshi RF, Burha Pahar RF, Pangoli RF are located at a distance of 7-8 km from the project site. No national parks/wildlife sanctuary is located within 10 km. River Baitarani is flowing at a distance of 1.5 kms from the plant site in east direction. Total cost of the proposed expansion will be Rs. 647.54 Crores. Rs. 33.60 Crores and Rs. 0.40 Crores will be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures.

3. Following will be the existing and proposed facilities from the proposed plant:

Units	Existing Capacity (TPA)	Proposed Capacity (TPA)	Total Capacity (TPA)
DRI (2x100 TPD)	62,000	--	62,000
Sinter (1x28 m ²)	--	2,62,000	2,62,000
Mini Blast Furnace (200 m ³)	--	2,24,000	2,24,000
SMS (IF-2x15 T)	--	2,50,000	2,50,000

SMS: IF-2x15 T	2,50,000	2,50,000
EAF-1x20T LRF-		
2x20T Concast-		
1x500MM	2,10,000	2,10,000
Rolling Mill		
Captive Power		
Plant		
WHRB-		
2x12 TPH	16 MW	16 MW
AFBC-1x		
40 TPH		
BF Gas		
fred Boiler- 1x25		
TPH		
2x8 MW TG	100 TPH	100 TPH
Coal washery		

4. The Steel plants have been listed at S.N. 3(a) under primary metallurgy industry under category 'A' of EIA Notification, 2006 and appraised by the Expert Appraisal Committee (Industry) in the Ministry.

5. The proposal was considered by the Expert Appraisal Committee (Industry) in its meeting held on 17th -18th May 2010 and recommended the proposal for environmental clearance. Public hearing / Public consultation meeting was held on 06.11.2009.

6. Based on the information submitted by you, presentation made by you and your Consultant, Geomin Consultants (P) Ltd, Bhubaneswar, 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 :

- Compliance to all the specific and general conditions stipulated for the existing plant(s) by the Central/State Govt shall be ensured and regular reports submitted to the Ministry and its Regional Office at Bhubaneswar.
- 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 and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), gas cleaning system, dust catcher bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm³ by installing energy efficient technology. At no time the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.

3.
iii) In plant control measures for checking fugitive emissions from all the vulnerable sources like spillage raw materials/coal handlings etc shall be provided. Further specific measures like provision of dust suppression system consisting of water sprinkling suction hoods fans and bag filters etc shall be installed at material transfer points blast furnace stock house and other enclosed raw material handling areas. Centralized de-dusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriately designed height conforming to the standards. All the internal roads shall be asphalted. Fugitive emissions shall be regularly monitored and records maintained.

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.

v) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.

vi) Gaseous emission levels including secondary fugitive emissions from all the sources should be controlled as per Ministry vide G.S.R. 414(E) dated 30th May, 2008 within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.

vii) Hot gases from DRI kiln should be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then should be cleaned in ESP before leaving out into the atmosphere through ID fan and stack.

viii) The water consumption shall not exceed as per the standards prescribed for the steel plants.

ix) Total water requirement from the River Brahmani shall not exceed 360 m³/hr as per the permission accorded by the Central Ground Water Board vide letter no. 21-4(35)/SER/CGWA/ 2008/88 dated 1st May 2008.

x) Zero effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.

- 4.
- xii) 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.
- xiii) 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 at Bhubaneswar, SPCB and CPCB.
- xiv) All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed off anywhere else. AFBC boiler shall be installed simultaneously alongwith the DRI plant to ensure full utilization of char from the beginning. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Mill scale from rolling mill should be recycled to SMS only.
- xv) Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010.
- xvi) Recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.
- xvii) Prior permission from the State Forest Department shall be obtained regarding likely impact of the expansion of the proposed steel plant on the reserve forests. Measures should be taken to prevent impact of particulate emissions / fugitive emissions, if any from the proposed plant on the surrounding reserve forests viz. Amruhi RF, Rakshi RF, Burha Pahar RF, Pangoli RF located within 10 km radius of the project. Further, Conservation Plan for the conservation of wild fauna in consultation with the State Forest Department should be prepared and implemented.
- xviii) All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 6th November, 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.
- xix) 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.

- xx) 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.
- xxi) As proposed, green belt shall be developed in 27.11 ha out of total 80.94 ha within and around the plant premises to mitigate the effects of air emissions as per the CPCB guidelines in consultation with DFO.
- xxii) 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:

- i) The project authorities must strictly adhere to the stipulations made by the Orissa State Pollution Control Board and the State Government.
- ii) No further expansion or modifications in the plant should 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.
- 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, SO₂ 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 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 should 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 As proposed, Rs 33.60 Crores and Rs. 0.40 Crores 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.
- 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, 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.
- 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.

Copy to:-

1. The Secretary, State Department of Environment, Govt of Orissa, Bhubaneswar, Orissa.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032
3. Chairman, Orissa Bengal Pollution Control Board, Parivesh Bhavan, A/118, Neelkanthhanagar, Unit-8, Bhubaneswar - 751 012, Orissa.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751 023, Orissa.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File
7. Record File.

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