

F. No. J-11011/498/2006- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

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Dated 28<sup>th</sup> September, 2007

To, ✓  
M/s Raipur Alloys And Steel Ltd.  
Industrial Growth Centre  
Siltara - 49311, Raipur  
Chhattisgarh.

E-mail : [gkchhangano@rasindia.com](mailto:gkchhangano@rasindia.com) / [gkchhanghassi@rasindia.com](mailto:gkchhanghassi@rasindia.com)  
Fax No. : 07721-403924

Subject : Expansion of Steel Plant (Sponge Iron, 4,60,000 to 6,10,000 TPA; Steel Ingot/Billets 2,00,000 to 3,60,000 TPA; Rolling Mill 1,80,000 TPA and Pig Iron 1,80,000 TPA) and Captive Power Plant (FBC boiler 20 MW & WHRB 20 MW) at Phase-I, Industrial Growth Centre, Siltara, Raipur, Chhattisgarh by M/s Raipur Alloys & Steel Ltd.

Sir,

This has reference to your letter no. RASL0528/5594 dated 8<sup>th</sup> December, 2006 alongwith Form I, Project Report, EIA/EMP Report and related project documents seeking environmental clearance under the EIA Notification, 2006 on the above mentioned project and subsequent clarifications furnished by you vide your letter dated 19<sup>th</sup> January, 2007, 24<sup>th</sup> January, 2007, 17<sup>th</sup> March, 2007, 26<sup>th</sup> March, 2007, 31<sup>st</sup> May, 2007 and 26<sup>th</sup> June, 2007.

2.0. The Ministry of Environment and Forests has examined your application. It is noted that M/s Raipur Alloys & Steel Ltd. have proposed for the expansion of Steel Plant (Sponge Iron, 4,60,000 to 6,10,000 TPA; Steel Ingot/Billets 2,00,000 to 3,60,000 TPA; Rolling Mill 1,80,000 TPA and Pig Iron 1,80,000 TPA) and Captive Power Plant (FBC boiler 20 MW & WHRB 20 MW) at Phase-I, Industrial Growth Centre, Siltara, Raipur, Chhattisgarh as per details given below:

S.N.	Description	Capacity of the Project (TPA)			
		Under Installation	Existing	Proposed capacity for expansion	Total capacity after expansion
1	Sponge Iron	190400	269600	150000	610000
2	Steel Ingot/Billets	160000	40000	160000	360000
3	Rolling Mill	--	--	180000	180000
4	Pig Iron (650 M <sup>3</sup> -BF)	--	--	400000	400000
5	Power Generation	--	--	40 MW	40 MW

Existing project is located in 56.876 acres and expansion will be carried out at the same site. No additional land will be required for the expansion project. No national park/wildlife sanctuary is located within 10 km. radius of the project site. Total cost of the project is Rs. 700.00 Crores. Rs. 47.39 Crores and Rs. 7.53 Crores are earmarked towards capital cost and recurring cost/annum for environmental pollution control measures.

3.0 Iron Ore (976,000 TPD) will be sourced from Dongarbor captive iron ore mine for which environmental clearance has been accorded by the Ministry. Total water requirement from Kharun river for industrial purpose will be 6,733 m<sup>3</sup>/day and permission has been accorded by the Department of Water Resources for the drawl of 2 MGD water (9,092 m<sup>3</sup>/day).

4.0 No public hearing/consultation is required due to location of the project in notified Siltara Industrial Area as certified by the Chhattisgarh State Industrial Development Corporation (CSIDCO) vide letter no. CSIDCO/BHU-AAB/07 dated 15<sup>th</sup> March, 2007 as per Section (iii), Stage (3), Para (i)(b) of EIA Notification, 2006.

5.0 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 CONDITIONS:

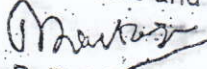
- i) A time bound action plan to reduce RSPM levels in the ambient air shall be submitted within three months of issue of this letter. On-line stack monitoring facilities for all the stacks and sufficient air pollution control systems to control emissions from the kiln and Captive Power Plant (FBC boiler & WHRB) shall be provided viz. ESP and bag filters etc. to keep emissions within permissible limits of Chhattisgarh Environment Conservation Board (CECB) and / or prescribed under EPA Rules.
- ii) Gaseous emission levels including secondary fugitive emissions shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.
- iii) Total water requirement from Kharun river shall not exceed 6,733 m<sup>3</sup>/day although permission has been accorded by the Department of Water Resources, Govt. of Chhattisgarh for 2 MGD water (9,092 m<sup>3</sup>/day). All the treated wastewater shall be treated in ETP and reused in the process, dust suppression and green belt development etc. No wastewater shall be discharged outside the plant and 'zero' discharge concept shall be adopted to control water pollution.
- iv) Permission for the drawl of ground water for domestic use shall be obtained from the State Ground Water Board / Central Ground Water Authority (SGWA/CGWA).
- v) A time bound action plan shall be submitted within three months from the date of issue of this letter to the Ministry and its Regional Office at Bhopal to reduce solid waste, its proper utilization and disposal. Scrap in the induction furnace as raw material, Char / dolochar in AFBC boiler of power plant, IF slag for road construction and BF slag shall be used for cement manufacturing.
- vi) Proper utilization of fly ash shall be ensured as per Fly ash Notification, 1999 and subsequent amendment in 2003. The utilization plan shall be submitted to the Regional Office at Bhopal within three months.
- vii) As proposed, green belt shall be developed in 24.04 acre (40 %) out of total 56.876 acre land available within and around the plant premises as per the CPCB guidelines in consultation with DFO.

#### B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.

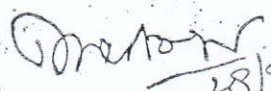
- ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.
- iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19<sup>th</sup> May, 1993 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. At no time, the emission level shall go beyond the prescribed standards. On-line continuous monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- iv. At least four ambient air quality-monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the CECB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB once in six months.
- v. 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 for induction furnaces existing in the industry and proposed induction and arc furnaces. Fugitive emissions shall be regularly monitored and records maintained.
- vi. 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.
- vii. 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).
- 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. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- x. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel sector shall be strictly implemented.
- xi. 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.

- xii. The project authorities shall earmark Rs. 47.39 Crores and Rs. 7.53 Crores/annum towards capital and recurring cost/annum for environmental protection measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and an implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry at Bhopal. The funds so provided shall not be diverted for any other purpose.
- xiii. The Regional Office of this Ministry at Bhopal / CPCB / CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
- xiv. 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 CECB/Committee 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.
- xv. Project authorities should 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.
- 6.0. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 7.0. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- 8.0. 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 and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules

  
(Dr. P. B. Rastogi)  
Additional Director

Copy to:

1. Secretary, Department of Environment, Govt. of Chhattisgarh, Chhattisgarh.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
4. The Chief Conservator of Forests (Eastern), Regional Office (WZ), E-3/240, Arera Colony, Bhopal 462 016, M.P.
5. Monitoring Cell, Ministry of Environment & Forests, New Delhi.
6. Guard file.
7. Record file.

  
28/9/07  
(Dr. P. B. Rastogi)