

F. No. J-11011/878/2007- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

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Dated 22<sup>nd</sup> September, 2008

To, ✓  
Shri Bharat Kumar Sonthalia  
Director  
M/s Sugna Metals Pvt. Ltd.  
1-8-673, I.D.A. Azamabad  
Hyderabad - 500 020, A. P.

E-mail : [sunder\\_mills@rediffmail.com](mailto:sunder_mills@rediffmail.com) ; Fax No. 040 - 27663527

**Subject :** Pig Iron Plant (250 TPD), M.S. Ingots/Billets (200 TPD) and TMT Bars (200 TPD) at Sy. No. 142 and 143 at Village Narayanpur, Mandal Pargi, District Ranga Reddy, Andhra Pradesh by M/s Sugna Metals Pvt. Ltd. - Environment clearance reg.

**Ref. :** Your letter no. SMPL/MOEF/2006-07 dated 30<sup>th</sup> June, 2007.

Sir,

Kindly refer your letter no. SMPL/MOEF/2006-07 dated 30<sup>th</sup> June, 2007 alongwith project documents including Application in Form I, Pre-feasibility Report and draft 'Terms of References' as per the EIA Notification, 2006 and related project documents and subsequent clarifications furnished by you vide your letters dated 19<sup>th</sup> November, 2007, 24<sup>th</sup> June, 2008 and 6<sup>th</sup> August, 2008 for environmental clearance on the above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for setting up of Pig Iron Plant (250 TPD), M.S. Ingots/Billets (200 TPD) and TMT Bars (200 TPD) at Sy. No. 142 and 143 at Village Narayanpur, Mandal Pargi, District Ranga Reddy, Andhra Pradesh by M/s Sugna Metals Pvt. Ltd. Total land required is 20 acres. No National Park/Wild life sanctuary/Reserve Forest is located within 10 km radius of the project. Total cost of the project is Rs. 31.50 Crores. Following facilities will be installed:

S.N	Units	Capacity
1.	Blast Furnace	1x100 m <sup>3</sup>
2.	Induction Furnaces	2x15 MT
3.	Rolling Mill	1x200 TPD

2.0 Lump iron ore, Limestone, Dolomite, Manganese ore, Quartzite, Coke etc. will be used as raw material. The cooked coal i.e. 'Coke' will also be used besides limestone, dolomite, quartzite and Manganese ore. In Blast Furnace (BF), Iron Oxide (raw ore) will be reduced into liquid hot metal and slag in presence of CO at 1600°C. The Iron ore, pellets and sinter will be used as charge mix. Sponge Iron and M.S. Scrap will be used for secondary steel making i.e. induction of M.S. Ingots and TMT Bars. M.S. Ingots will be converted to Rolled material in hot condition by rolling operation.

3.0 Gaseous emissions will be treated in Gas Cleaning Plant (GCP) and ventury scrubber to control emissions within 100 mg/Nm<sup>3</sup>. Clean coal gas will be recycled completely. Dust collectors will be provided to BF and dust will be reused in sinter plant. Dust suppression system will be provided to coal washery. Fume extraction system with bag filters will be provided to induction furnace and continuous casting machine. Total ground water requirement will be 300m<sup>3</sup>/day. Closed cooling system will be adopted. All the treated wastewater will be completely recycled and reused in the process/dust suppression/slag granulation etc. SMS Slag will be granulated and used in manufacture of siag cement. Sludge from thickener will be collected in sludge drying beds.

4.0. Public hearing/consultation meeting was held on 21<sup>st</sup> May, 2008.

5.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification, 2006 as amended subsequently 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 stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm<sup>3</sup>. All the gases from blast furnace after cleaning in gas cleaning plant (GCP) shall be used as fuel for power generation. All the dust from the air pollution control equipments shall be recycled and reused in the Sinter plant. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bangalore, Central Pollution Control Board (CPCB) and A. P. Pollution Control Board (APPCB) once in six months.
- ii) As proposed, Gas cleaning plant and ventury scrubber shall be provided to blast furnace and clean gas shall be passed through the stacks of adequate height to control emissions within 100 mg/Nm<sup>3</sup>. Fume extraction system with bag filters shall be provided to induction furnace and continuous casting machine. The electrostatic precipitator (ESP) shall be provided to Sinter Plant to control emissions within 100 mg/Nm<sup>3</sup>. Clean coal gas will be recycled completely. The emissions from blast furnace shall be controlled by dust catcher consisting of cyclones followed by bag filters. The emissions from submerged electric arc furnaces shall be controlled by providing fume extraction system with bag filters to control emissions within 100 mg/Nm<sup>3</sup>.
- iii) Dust from dust collectors shall be collected and reused in sinter plant. Dust suppression system shall be provided to control dust from coal washery. Dust extraction system followed by bag filters shall be provided to raw material handling, storage and loading areas to control fugitive emissions to control fugitive emissions. Bag filters shall be provided at the transfer points to control fugitive emissions. Internal roads shall be asphalted. All the conveyors will be covered by the GI sheets.
- iv) Secondary fugitive emissions from blast furnace shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued in this regard by the CPCB shall also be followed.
- v) Total ground water requirement from bore wells shall not exceed 300 m<sup>3</sup>/day. Closed circuit cooling system shall be adopted and no effluent shall be generated from the

Sinter plant. The effluent from gas cleaning plant of blast furnace shall be treated in a settling tank. All the treated wastewater including blow down water from BF, SMS shall be recycled and reused in the process, dust suppression, slag granulation and green belt development. 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.

- vi) Prior permission for the drawl of 300 m<sup>3</sup>/day ground water from the State Ground Water Board and Central Ground Water Authority (SGWB/CGWA) shall be obtained.
- vii) All the blast furnace slag and SMS shall be granulated and provided to cement manufacturers for further utilization. All the dust from the air pollution control equipments including BF dust shall be recycled and reused in the Sinter plant. Mill scales for rolling mill shall be used in BF and Sinter Plant. Thickner shall be collected in sludge drying beds and properly disposed off. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner. Waste oil shall be sold to authorized recyclers/ reprocessors.
- viii) Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bangalore, APPCB and CPCB.
- ix) A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
- x) As proposed, green belt shall be developed in 7 acres out of total 20 acres within and around the plant premises as per the CPCB guidelines in consultation with DFO.
- xi) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be strictly implemented.

#### **B. GENERAL CONDITIONS :**

- i. The project authorities must strictly adhere to the stipulations made by the A.P. Pollution Control Board (APPCB) 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 APPCB 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. The interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- iv. 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 and other 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. Fugitive emissions shall be regularly monitored and records maintained.
- v. At least, four ambient air quality-monitoring stations should 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 APPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bangalore, APPCB and CPCB once in six months.
  - 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 shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
  - viii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
  - ix. 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.
  - x. 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.
  - xi. The project authorities shall earmark Rs. 3.00 Crores and Rs. 0.24 Crores 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 Ministry's Regional Office at Bhubaneswar. The funds so provided should not be diverted for any other purpose.
  - xii. The Regional Office of this Ministry at Bangalore / APPCB / CPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
  - xiii. 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 APPCB 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.

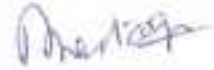
- xiv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

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 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.

9.0 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)  
Director

Copy to :-

1. The Secretary, State Department of Environment and Forests, Govt. of Andhra Pradesh, Mantralaya, Hyderabad, A.P.
2. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110032.
3. The Chairman, Andhra Pradesh Pollution Control Board, Paryavaran Bhavan, A-3, Industrial Estate, Sanathnagar, Hyderabad - 500 018, Andhra Pradesh.
4. The Chief Conservator of Forests (Central), Ministry of Environment & Forest, Regional Office (SZ), Kendriya Sadan, IV<sup>th</sup> Floor, E & F Wing, 17<sup>th</sup> Main Road, Koramangla, Bangalore 560 034, Karnataka.
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi. - 110003.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
7. Guard file.
8. Monitoring file.
9. Record file.



(Dr. P. B. Rastogi)  
Director