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F. No. J-11011/479/2011-IA-II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

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Tele/fax: 011 – 2436 3973  
Dated: 16th March, 2012

To,  
M/s Chandan Steel Limited  
504, Sukh Sagar, N.S. Patkar Marg,  
Mumbai - 400 007, Maharastra

Ph: 022- 66290600      Fax: 022- 66290633  
E-mail: [csl@chandansteel.net](mailto:csl@chandansteel.net)

**Sub:** Expansion of induction Furnace from 36,000 TPA (10 MT) to 60,000 TPA (18 MT) at Plot No. 32,33-B, 34,35 & 36 Umargaon Industrial Area, District Valsad, Gujarat by **M/s Chandan Steel Limited - regarding Environmental Clearance**

Sir,

This has reference to your letter no. dated 2.01.2012 along with a copy of EIA/EMP report and subsequent communication dated 1.02.2012 seeking environmental clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined your application. It is noted that M/s Chandan Steel Limited have proposed for the expansion of production capacity by increasing the capacity of induction furnace from 10 MT to 18 MT for in production of from 36,000 TPA to 60,000 TPA of steel. Total land available for the project is 4.2 acres of which 1.39 acres will be developed under green belt. The raw materials used would be stainless Steel scrap, High carbon Ferro Chrome, High carbon Ferro Manganese, Ferro Silicon, Ferro Nickle and Scrap coolant. Lime and Dolomite will be used as fluxes. Power will be sourced from GIDC. Total project cost for the proposed expansion is Rs. 12 Crores of which Rs. 1.2 Crores and Rs. 12 lakhs will be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures.

3. The details of the products along with their capacity are given below:

Details	Units	Existing	Proposed
Induction Furnace	MT	10	18
Captive Power Plant	MW	2 x 4	2 x 4 ( No change)
<b>Products</b>			
Steel Plant	TPA	36,000	60,000
Oxygen	m <sup>3</sup> /month	2.5 lakhs	5.0 lakhs
Nitrogen	m <sup>3</sup> /month	1.5 lakhs	3.0 lakhs

4. It is noted that dust and fume extraction system followed by bag filters will be provided to the furnace for control of particulate emissions. The gaseous emissions will be dispersed through a stack of 35 m height. Fugitive emissions due to transportation will be controlled by water sprinkling on the roads. Raw material and products will be kept in covered sheds.

5. Total water requirement of 260m<sup>3</sup>/day will be sourced from the GIDC, Umargaon. The effluent from cooling tower (44 m<sup>3</sup>/day) will be used for slag cooling, dust suppression and plantation. Domestic effluent (22m<sup>3</sup>/day) will be treated in septic tank followed by soak pit. No effluent will be discharged outside the plant premises and zero discharge will be adopted. The slag (30 TPD) generated from the production will be used for manufacturing of tiles/bricks which will be further used for construction of boundary walls. The slag will be tested for heavy metals by carrying TCLP test. Waste oil and used batteries will be sold to authorized recyclers /reprocessors. The existing Captive Power Plant (CPP) (2 x 4 MW) will be utilized as a power backup.

6. The proposed expansion project is listed at S.No. 3(a) under category 'B' of Schedule of EIA Notification, 2006 and should have been appraised by SEIAA/SEAC. Due to location of the project within 10 km of interstate boundary of Gujarat & Maharashtra, as per the general condition of EIA Notification, 2006, the proposal has been appraised by the Expert Appraisal Committee (Industry-1) in the Ministry.

7. The proposal was considered by the Expert Appraisal Committee-1 (Industry) in its 32<sup>nd</sup> meeting held during 27<sup>th</sup> -28<sup>th</sup> January, 2012. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public hearing has been exempted as per para7(ii) of EIA Notification, 2006.

8. Based on the information submitted by you, presentation made by you and consultant, Ramky Enviro Engineers Ltd., Hyderabad, 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. The company shall install wet scrubber and bag filters etc. to control the particulate emissions below 50 mg/Nm<sup>3</sup>.
- 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. Gaseous emission levels including 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 should be followed.



- iv. 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.
- v. The total water requirement shall not exceed 260 m<sup>3</sup>/day. No effluent shall be discharged and 'zero' discharge shall be adopted.
- vi. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhopal, SPCB and CPCB within 3 months of issue of environment clearance letter.
- vii. As proposed, green belt shall be developed in 33 % of the plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- viii. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.
- ix. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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.

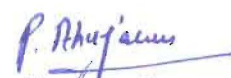
**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB) 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. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the GPCB including one ambient air quality monitoring station in the downwind direction. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bangalore and the GPCB / CPCB once in six months.
- iv. 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.

- v. 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).
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. 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.
- ix. Requisite amount shall be earmarked towards the capital cost and recurring cost/annum for environmental protection measures and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- x. 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.
- xi. 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, the respective Zonal Office of CPCB and the **GPCB**. The criteria pollutant levels namely; PM<sub>10</sub>, 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.
- xii. 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 at Bhopal, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhopal / CPCB / **GPCB** shall monitor the stipulated conditions.



- xiii. 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 Offices of the MOEF by e-mail.
- 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 GPCB 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 shall be forwarded to the Regional office at Bangalore.
- xv. 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.
11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
13. 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, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

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

**Copy to:-**

1. The Secretary, Department of Environment and Forests, Government of Gujarat, Gandhinagar, Gujarat.
2. The Chief Conservator of Forests (Central), Ministry of Environment and Forests, Regional Office, (West), Link Road No. 3, E-5, Arera Colony, Bhopal – 462 016.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi – 110 032.

4. The Chairman, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector 10-A, Gandhinagar, Gujarat -382010.
5. Adviser, IA-II, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi – 110 003.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi – 110 003.
7. Guard File / Record File.

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