

To,
M/s Vinayak Steels Limited
5-4-83 to 85 TSK Chambers, MG Road
Secunderabad - 500 003
Andhra Pradesh.

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Subject: Expansion of Steel Plant at Plot No. 97 & 98, J. P. Durgah Road, Kottur Industrial Area, Village & Mandal Kottur, District Mahaboobnagar, Andhra Pradesh by M/s Vinayak Steels Limited (Unit-II) – Environment clearance reg.
Ref. : Your letter no. nil dated 2nd December, 2009.

Sir,
This has reference to your letter no. nil dated 2nd December, 2009 alongwith Application in Form I, draft Terms of References, EIA/EMP and Public Hearing Report and subsequent communication vide letter dated 11th and 26th March, 2010 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 the expansion of Steel Plant at Plot No. 97 & 98, J. P. Durgah Road, Kottur Industrial Area, Village & Mandal Kottur,

District Mahaboobnagar, Andhra Pradesh by M/s Vinayak Steels Limited (Unit-II). Total land acquired in notified Kottur industrial area is 8 acres. Gazette Notification issued by the Govt. of Andhra Pradesh (G.O. No. 49 dated 3rd February,

1992) is submitted. 'Consent for Establishment (CFE)' for the existing plant is issued by the APPCB vide Order No. 229-MHB/APPCB/ZO-HYD/CFE/2009-175 dated 29th May, 2009. An open jungle is located at a distance of 8 km from the project site. No national parks, wildlife sanctuaries and bird sanctuaries are located within 10 km radius. Total cost of the proposed expansion will be Rs. 30.00 Crores. Following are the details of existing and proposed facilities:

S.N.	Facility	Product	Capacity
Existing :			
1	Induction Furnace	Ingots/Billets	33,000 TPA (4.5 TPH)
2	Rolling mill	MS Bars/Structures	49,500 TPA (150 TPD)
Proposed :			
1	Induction Furnace 4 crucibles with 2 in stand-by	Ingots/Billets	72,000 TPA (2x12 TPC)
2	Ferro Alloy Plant	Ferro Manganese Ferro Silicon	42,000 TPA (2x12 MVA)

3.0 Fume extraction furnace, reverse air/pulse jet bag filter with ID fan, spark arrester, hood and high chimney will be provided to control emissions below 50 mg/Nm³. Total ground water requirement will be 195 m³/day. No process effluent will be generated as cooling water will be re-circulated. All the effluent will be treated and treated effluent will be recycled/reused in the process and/or for dust suppression and for green belt development. All the ferro alloy and induction furnace slag will be used for land filling inside the plant only after passing through Toxic Chemical Leachability Potential (TCLP) test. Fe-Mn slag will be used to manufacture Si-Mn. Mill scale from the rolling mill will be sold into the market and scrap will be reused in the plant. No Ferro chrome will be manufactured. Green belt will be developed in 2.64 acres (33%) of total plant area.

4.0 Public hearing/consultation is exempted due to project being located in notified Kottur industrial area 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 14th September, 2006 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS :

- i) All the conditions stipulated for the existing plant by the Central/State Govt. shall be implemented and report submitted to the Ministry's Regional Office at Bangalore, APPCB and CPCB.
- ii) Pet coke shall be used as fuel instead of charcoal from unknown sources. No charcoal shall be used as fuel.
- iii) Continuous monitoring facilities for all the stacks and sufficient air pollution control equipments viz. fume extraction system with bag filters, I D fan, spark arrester and stack of adequate height to submerged arc furnace and induction furnace shall be provided to control emissions below 50 mg/Nm³. Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. 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.
- iv) 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.
- v) In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust extraction system with bag filters shall be provided at the raw material handling area, material transfer points, crusher area, screening, cooler discharge area and product separation area to control dust emissions. Dust suppression system like water spraying shall be provided at material handling areas, loading and unloading areas to control dust emissions. All the internal roads shall be asphalted to prevent the fugitive dust emissions due to vehicular movement. All the conveyors shall be covered by GI sheets to prevent the fugitive dust.
- vi) Secondary fugitive emissions from all the sources 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.
- vii) 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.
- viii) Total ground water requirement from tube well and rain water harvesting shall not exceed 195 m³/day. Closed circuit cooling system shall be adopted to reduce water consumption through recycling and reuse. Acidic and alkaline effluents from de-mineralized (DM) plant shall be neutralized in a neutralization pit. The treated effluent shall be recycled/reused in the process and/or used for dust suppression and green belt development etc. Service water shall pass through oil separator to remove oil in the effluent. The sanitary sewage shall be treated in sewage treatment plant. Domestic wastewater shall be treated in septic tank followed by soak pit and used for green belt development.
- ix) Prior permission for the draw of 195 m³/day ground water from Central Ground Water Authority/State Ground Water Board (CGWA/SGWB) shall be obtained and a copy shall be submitted to the Ministry and its Regional Office at Bangalore within 3 months of the issue of the letter.
- 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) 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
- xii) 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 Bangalore, APPCB and CPCB.
- xiii) As proposed, mill scale from the rolling mill shall be sold and scrap shall be reused in the plant. All the other solid waste including Silico-Manganese slag, slag from induction furnace and broken refractory mass shall be properly disposed off in environment-friendly manner. Waste oil and oily sludge shall be disposed off to registered recyclers/reprocessors.
- xiv) All the ferro alloy slag shall be used for land filling inside the plant or as building material only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines.
- xv) Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture Silico Manganese (Si-Mn).
- xvi) No Ferro Chrome shall be manufactured without prior approval from the Ministry of Environment & Forests.
- xvii) 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.
- xviii) A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
- xix) A Risk and Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office at Bangalore, APPCB and CPCB within 3 months of issue of environment clearance letter.
- xx) As proposed, green belt shall be developed in at least 2.64 acre land (33%) out of total 8 acre land within and around the plant premises as per the CPCB guidelines in consultation with DFO.
- xxi) Prior permission from the State Forest Department shall be taken regarding likely impact of the expansion of the proposed steel plant on the reserve forests. Measures shall be taken to prevent impact of particulate emissions / fugitive emissions, if any from the proposed plant on the surrounding forests located at 8 km from the proposed project site. Further, Conservation Plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.
- xxii) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel plants shall be strictly implemented.
- xxiii) 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 shall be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program shall be ensured accordingly in a time bound manner.
- xxiv) 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.

B. GENERAL CONDITIONS:

- i. The project authorities shall strictly adhere to the stipulations made by the Andhra Pradesh Pollution Control Board (APPCB) and State Govt.
- ii. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
- iii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iv. 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.
- v. The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Authorization from the APPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- vi. The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the A. P. Pollution Control Board must be obtained for collection / treatment / storage / disposal of hazardous wastes.
- 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- viii. 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.
- ix. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- x. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.
- xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.
- xii. As proposed, Rs. 3.00 Crores and Rs. 0.20 Crores shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. A time bound implementation schedule shall be submitted to the Ministry and its Regional Office at Bangalore to implement all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- xiii. 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.
- xiv. 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 APPCB. The criteria pollutant levels namely; RSPM (PM_{2.5} and 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.
- xv. 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 APPCB. The Regional Office of this Ministry / CPCB / APPCB shall monitor the stipulated conditions.
- xvi. 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 Offices of the MOEF by e-mail.
- xvii. 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.
- xviii. 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 State Pollution Control Board, 2nd Floor, HUDA Complex, Maitrivaram, S.R. Nagar, Hyderabad – 500 038, A. P.
4. The Chief Conservator of Forests (Central), Ministry of Environment & Forest, Regional Office (SZ), Kendriya Sadan, IVth Floor, E & F Wing, 17th Main Road, Koramangla, Bangalore - 560 034, Karnataka.
5. Adviser, IA II(I), 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. Record file.
9. Monitoring file.

(Dr. P.B. Rastogi)
Director