

F. No. J-11011/956/2008- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated 5th January, 2010

To,

The Managing Director
M/s J.R. Metal Chennai Ltd
No.3, Manali Express Road, TKP Nagar
Chennai-600 019, Tamil Nadu.

E-mail : jrmetalchennai@yahoo.in / jrsmeltters@yahoo.in

Subject : Steel Plant (0.1 MTPA) comprising of Induction Furnace (2X25 T) and Rolling Mill (1,00,000 TPA) at Village Periyapuliur, Post Poovalambedu, Via Kavrapettai, Taluk Gummidipoondi, District Thiruvallur, Tamil Nadu by M/s J. R. Metal Chennai Ltd. - Environment clearance reg.

Ref. : Your letter no. nil dated 21st October, 2009.

Sir,

This has reference your letter no. 21st October, 2009 alongwith Public hearing report and EIA/EMP seeking environment clearance under EIA Notification 2006 for the above mentioned project and subsequent information vide letter dated 14th November, 2009 for seeking environmental clearance under the EIA Notification, 2006 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 Steel Plant (0.1 MTPA) comprising of Induction Furnace (2X25 T) and Rolling Mill (1,00,000 TPA) at Village Periyapuliur, Post Poovalambedu, Via Kavrapettai, Taluk Gummidipoondi, District Thiruvallur, Tamil Nadu by M/s J. R. Metal Chennai Ltd. Total land acquired is 39 acres. No national park / wild life sanctuary / reserve forest falls within 10 km radius of the proposed site. Andhra Pradesh state boundary falls within 10 km radius of the project site. Total cost of the project is 26.00 Crores. Following facilities will be installed in the proposed project:

S.N.	Facility	Capacity
1	Induction furnace with CCM One in operation and the other in standby	1,05,000 MTPA (2x25 TPH)
2	Re-Rolling mill	1,00,000 MTPA

3.0 Sponge iron, MS scrap, Silico manganese, Ferro silicon and furnace oil will be used as raw materials. Steel billets will be manufactured by melting steel scrap with sponge iron and other metallic alloy ingredients in electric induction furnace (EAF). The

liquid steel from the induction furnace will be casted into billets through a continuous casting machine (CCM). Billets from the CCM will be reheated in a rolling mill to get products of desired specifications.

4.0 Wet scrubber, dust suppression system with water sprinklers, dust extraction system and stack of adequate height will be provided to control of air pollution. Total ground water requirement will be 10 KLD. Treated wastewater will be used for dust suppression and green belt development. No trade effluent will be discharged outside the premises. Misrolls and end bits from the rerolling mill will be recycled/reused back in the induction furnace. Induction furnace slag, mill scales and sludge from wet scrubber will be dispose off in environment-friendly manner.

5.0 Public Hearing / Public Consultation meeting was held on 29th July, 2009.

6.0. 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) Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. ESP and bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm³. Waste gases from rolling mill shall be discharged through a stack of adequate height. 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.
- ii) 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.
- iii) Bag filters, hood with fume extraction system and wet scrubber shall be provided to the induction furnace to control the particulate emissions below 50 mg/Nm³. Data on ambient air quality, stack emissions and fugitive emissions shall be regularly submitted to this Ministry including its Regional Office at Bangalore / T.N. Pollution Control Board (TNPCB) and Central Pollution Control Board (CPCB) once in six months. Fume extraction system with bag filters shall be provided to induction furnace and ladle refining furnace.
- iv) In-house fugitive emission control measures shall be adopted. Dust suppression and extraction system shall be provided to control dust emissions from all the vulnerable sources like raw material handling and storage areas. All the roads shall be tarred and water sprinkling shall be ensured to control dust emissions. All the material transfer points, discharge points and raw material storage area shall be completely covered. Monitoring of fugitive emissions in the work zone environment shall be carried out

regularly as per the CPCB guidelines and reports submitted to Ministry's Regional Office at Bangalore / TNPCB and CPCB.

- v) Gaseous emissions including 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. New standards issued by the Ministry for the sponge iron plant in May, 2008 shall be followed.
- vi) 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.
- vii) 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.
- viii) Total ground water requirement from bore wells shall not exceed 10 m³/day. All the cooling tower blow down and treated process wastewater shall be recycled and reused in the process, dust suppression and green belt development. Scrubbed effluent from induction furnace shall also be treated in settling tank and reused. Oil & grease shall be removed from the effluent from billet caster and rolling mill. No wastewater shall be discharged outside the plant premises and 'Zero' discharge shall be strictly adopted as proposed. Domestic wastewater shall be treated in septic tank followed by soak pit and used for green belt development
- ix) Prior permission for the drawl of 10 m³/day water from bore wells shall be obtained from Central Ground Water Authority/State Ground Water Board (CGWA/SGWB) and a copy submitted to the Ministry's Regional Office at Bangalore within 3 months of issue of environment clearance.
- x) The water consumption shall not exceed 16 m³/Ton of Steel as per prescribed standard.
- xi) 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 T.N. 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, TNPCB and CPCB.
- xii) All the solid/hazardous waste i.e. slag, sludge and oily waste shall be stored separately and disposed off at designated place only in environment friendly manner. No slag shall be disposed off on land except in designated secured landfill designed as per CPCB guidelines. Slag shall be subject to Toxic Chemical Leachability Potential (TCLP) test before selling to cement manufacturers or using for filling low-lying areas and shall be used only when found non-hazardous.

- xiii) Miss rolls and end cuttings from the rolling mill shall be recycled / reused in induction furnace. Mill scales from rolling mill shall be used / disposed off in environment friendly manner. Sludge from septic tank shall be used as soil conditioner for plantation purpose. All the other solid waste including broken refractory waste shall be properly disposed off in environment-friendly manner. Waste oil, oily sludge, grease and lead acid batteries shall be provided to registered recyclers/reprocessors as per CPCB guidelines under HW (M&H) Rules, 1989 and subsequent amendments.
- xiv) A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
- xv) 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, TNPCB and CPCB.
- xvi) As proposed, green belt shall be developed in 15 Acres (38 %) out of total 39 acres within and around the site as per the CPCB guidelines to mitigate the impacts of fugitive emissions to mitigate the impacts of fugitive emissions in consultation with local DFO.
- xvii) All the recommendations mentioned in the Charter on the Corporate Responsibility for the Environmental Protection (CREP) for the Steel Plants shall be implemented.
- xviii) All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 29th July, 2009 shall be satisfactorily implemented.
- xix) 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 must strictly adhere to the stipulations made by the Tamil Nadu Pollution Control Board (TNPCB) 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. 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 TNPCB 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, SO₂ and NO_x are anticipated in consultation with the TNPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bangalore/TNPCB and CPCB once in six months.
- v. Industrial wastewater shall be properly collected and 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. Proper house keeping shall be ensured and all the raw material including scrap, coal etc., shall be stored at designated places.
- 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 (day time) and 70 dBA (night time).
- 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. All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.
- x. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report.
- xi. The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.
- xii. As proposed, Rs. 0.50 Crores and Rs. 0.03 Crores shall be earmarked towards 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. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry and its Regional Office at Bangalore. 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 at Bangalore, the respective Zonal Office of CPCB and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, 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 at Bangalore, the respective Zonal Office of CPCB and the TNPCB. The Regional Office of this Ministry / CPCB / TNPCB 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 TNPCB 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.

7.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

8.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

9.0 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.

10.0 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 alongwith their amendments and rules

**(Dr. P. B.
Rastogi)
Director**

Copy to :

1. The Secretary (Environment) Govt. of Tamil Nadu, Fort St. George, Chennai - 560 560, Tamil Nadu.
2. The Chairman, Tamil Nadu Pollution Control Board, 100, Anna Salai, Guindly, Chennai-600 032, Tamil Nadu.
3. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
4. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wings, 7th Main Road, 2nd Block, Koramangala, Bangalore - 560034, Kanrnataka.
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
7. Guard file
8. Monitoring file
9. Record file

**(Dr. P. B.
Rastogi)
Director**
