F. No. J-11011/766/2008- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003
E-mail: ms.industry-mef@nic.in
Tele/fax: 011 – 2436 3573
Dated: August 30th, 2010

To,

The Managing Director,
M/s SLR Metaliks Ltd.,
A-2/452, Sector-8, Rohini,
New Delhi-110 085

Fax: 011- 27943470
E-mail: slrmetaliks@yahoo.co.in

Sub: Proposed Pig Iron Plant (262m³ - 2, 00, 000 TPA) along with Sinter Plant (33m² - 60, 000 TPA granulated) and Captive Power Plant (6 MW) at Sy. Nos. 44, 632 to 652 at Village Narayandevanakere, Taluk Hagaribommanahalli, District Bellary in Karnataka by M/s SLR Metaliks Limited - Environmental Clearance reg.

Sir,

This has reference to your letter no. nil dated 16th April, 2010 along with a copy of EIA/EMP report seeking environment clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the application for the above project. It is noted that M/s SLR Metaliks Limited have proposed for the Pig iron plant (2,00,000 TPA) along with Sinter Plant and Captive Power Plant (6 MW) at Village Narayandevanakere, Taluk Hagaribommanahalli, District Bellary in Karnataka. Total project area is 90 acres which is a private land. The land has been acquired. No R & R is involved. Gunda RF is located at 6 km. in NE direction and Ramgad RF at 7.6 km. in eastern direction. Tungabhadra river backwaters are at a distance of about 2 km from the proposed site. Total cost of the project is Rs.146.77 Crores. Rs. 5.00 Crores and Rs. 0.40 Crores will be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures.

3. The details of products to be manufactured and plant configuration is given below:

Products	Quantity (TPA)
Pig Iron	2,00,000
Granulated Slag	60,000

Units	Capacity
Blast Furnace	1 x 262 m^3
Sinter Plant	1 x 33 m^2
Pig Casting Machine	2 x 500 TPD
BF gas based Captive Power Plant	1x6 MW (1x40 TPH)

4. It is noted that hot metal produced in blast furnace will be casted in pig casting machine to produce cold pigs. The liquid slag will be granulated at cast house granulation unit. BF gas will be used as fuel in CPP (6 MW). Bag filters will be provided to CPP. ESP and bag filters will be provided to sinter plant. BF top gas will be cleaned in dust catcher followed by a venturi scrubber and then discharged through a stack of adequate height. Sinter strand wind box emissions will be controlled by cyclone cleaners followed by ESP/bag house. ESP will be provided to sinter machine head end and tail end exhaust de-dusting system. Flux and fuel crusher and screen emissions will be controlled by a hood and bag house. Bag house will be installed to control particulate matter generated during transport and loading and unloading of sinter plant feedstock and product. Dry fog dust suppression system will be provided for de-dusting of junction houses/transfer points. All the material handling system will be connected with deducting system. Water sprinkling system will be provided to control the dust.

5. Total water requirement from Tungabhadra reservoir will be 1,432.5 KLD. The boiler blow down and DM Plant regeneration after neutralization will be used for dust suppression, slag granulation and green belt development etc. Domestic sewage will be treated in septic tank followed by soak pit. 'Zero' discharge from industrial water circuits will be adopted. It is proposed to install dry type waste gas cleaning system and air cooled condenser to conserve the water. It is proposed to construct rain water harvesting structure in consultation with the State Ground Water Board to harvest the rain water from roof tops.

6. The solid waste will be generated in the form of granulated blast furnace slag which will be sold to the cement plants. Boiler ash and fly ash from CPP will be disposed to cement plants. Solid waste generated from raw material handling plant along with sinter fines and flue dust from sinter plant and flue dust along with gas cleaning plant sludge of blast furnace will be recycled to sinter plant. Used oil generated from DG sets will be provided to authorized reprocessors. Acoustic enclosures will be provided to DG sets. Power requirement of 4.2 MVA will be met from CPP and also from Grid. Blast furnace gas/LDO will be used for igniting the sinter layer. HSD will be used for running DG set (1x2 MW instead of 1x3 MW earlier proposed).

7. All the pig iron plants are listed at S. No. 3(a) under Category 'A' of the Schedule of EIA Notification 2006 and appraised at the Central level.

8. The proposal was considered by the Expert Appraisal Committee-1 (industry) in its meeting held during 26th -28th July, 2010. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public hearing/Public consultation meeting was conducted by the Karnataka Pollution Control Board on 16th February, 2010.

9. Based on the information submitted by you, presentation made by you and consultant, Environment Health Safety Consultants Pvt. Limited, Bangalore, 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. Electrostatic precipitator (ESP), dust catcher, cyclone separators, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm^3 by installing energy efficient technology.

ii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.

iii. 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 30th May, 2008 and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.

iv. Total water requirement from Tungabhadra reservoir shall not exceed 1,432.5 m^3/day and permission from the Surface Irrigation Department shall be obtained fro drawl of water. The water consumption shall not exceed as per prescribed standards for the steel plants.

v. 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises. 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.

vi. 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 Environment (Protection) Act, 1986 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 SPCB and CPCB.

vii. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Accretions shall also be properly utilized.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash should be provided to cement and brick manufacturers for further utilization and 'Memorandum of Understanding' should be submitted to the Ministry's Regional Office at Bangalore.

ix. Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.

x. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.

xi. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 16th February, 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bangalore.

xii. 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 should be submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB.

xiii. A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.

xiv. 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, CECB and CPCB within 3 months of issue of environment clearance letter.

xv. As proposed, green belt shall be developed in 33 % of plant area as per the CPCB guidelines in consultation with the DFO.

xvi. 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 Karnataka State Pollution Control Board 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 State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.

iv. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO_2 and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bangalore and the SPCB/CPCB once in six months.

v. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.

vi. 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).

vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

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. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the

vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bangalore.

xvii. 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.

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

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

12. 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.

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, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

P. Ahujarai

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

Copy to:

i. The Secretary, Department of Environment & Forests, Government of Karnataka, Bangalore, Karnataka.
ii. The Chairman, Karnataka State Pollution Control Board, Parisar Bhavan, No. 49, 4th & 5th Floor, Church Street, Bangalore - 560 001, Karnataka.
iii. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110032.
iv. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangala, Bangalore-560034, Karnataka.
v. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
vi. Guard file/Monitoring file/Record file.

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