

F. No. J-11011/556/2009- 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: plahujarai@yahoo.com

Tele/fax: 011 – 2436 3973

Dated: 24th May, 2011

To,

M/s KIC Metaliks Limited
Raturia, Durgapur,
District Burdwan - 713215
West Bengal

E-mail: pc.sahoo@hotmail.com / globalexerts@rediffmail.com

Sub: Expansion cum Modernization of existing Pig Iron Plant from 1,09,000 TPA to an Integrated Steel Plant of 3,00,000 TPA Steel Billets, Cement Grinding Unit (from 30, 000 TPA to 1,00,000 TPA) and installation of 4,20,000 TPA of sinter plant, steel Melting shop, Ferro alloy plant for production of 3,00,000 TPA steel Billet, 24,000 TPA of Spun pipe, 25,000 TPA of Ferro alloy with 5 MW of Captive Power Plant at Raturia, Durgapur, District Burdwan in West Bengal by M/s KIC Metaliks Limited - regarding Environmental Clearance

Sir,

This has reference to your letter no. KICML/ENV-04/2010-11 dated 27.10.2010 along with copies of EIA/EMP and public hearing reports and subsequent communication dated 30th March, 2011 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 KIC Metaliks Ltd. have proposed for expansion cum modernization of existing Pig Iron Plant from 1,09,000 TPA to an Integrated Steel Plant of 3,00,000 TPA Steel Billets, Cement Grinding Unit from 30, 000 TPA to 1,00,000 TPA and installation of 4,20,000 TPA of sinter plant, steel Melting shop, Ferro alloy plant for production of 3,00,000 TPA steel Billet, 24,000 TPA of Spun pipe, 25,000 TPA of Ferro alloy with 5 MW gas based and utilization of surplus MBF gas for Captive Power Plant in District Burdwan West Bengal. Total project area is 76 acres and proposed expansion will be carried out within the existing plant premises. Green belt will be developed in 25 acres (33%) out of total 76 acres of plant area. Iron ore lumps, iron ore fines, dolomite, limestone, burnt lime / lime, quartzite, chrome ore lumps, chrome ore fines, Mn ore, LAM Coke, coke fines, pearl coke, PCI coal, clinker, gypsum, molasses, sponge Iron will be used as raw materials. Power will be generated through BF gas and AFBC power plant. The coal requirement will be met from its sister unit M/s Bengal Energy Limited which imports coal from Australia and Indonesia. No national park/wild life sanctuary/reserve forest is located within 10 km radius of the project site. Total cost of the project is Rs. 358.23 Crores. Rs. 14.0 Crores and Rs. 2.6 Crores will be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures.

3. Following are the details of various facilities to be installed and products to be manufactured:

| S.No. | Unit | Capacity | Product | Production (TPA) |
|-----------------|------|----------------------|----------|------------------|
| Existing | | | | |
| 1 | MBF | 1x215 m ³ | Pig Iron | 1,09,000 |

| | | | | |
|-----------------|--------------------|--------------------------------------|---|-------------------------------------|
| 2 | Cement Grinding | 100 TPD | Cement (PSC) | 30,000 |
| Proposed | | | | |
| 1 | MBF modernization | 1x215 m ³ | Hot metal in SMS Hot metal in Spun pipe plant | 1,85,000 25,000 |
| 2 | Steel Melting shop | 1x50T EAF 1x50 T LRF 1x50 T VD | Liquid Steel | 3,31,000 |
| 3 | CCM | | Special Steel Billets and Blooms | 3,00,000 |
| | Ferro Alloys | 2x9 MVA | Fe-Cr, Fe-Mn & Si- Mn | 25,000 (Sale) 5,000 (Use in SMS) |
| 6 | Sinter Plant | 1x25 m ² | Sinter | 4,20,000 |
| 7 | BF gas based CPP | 1X5 MW | Power | 5 MW |
| 8 | Spun pipe | 24,000 TPA | Spun pipes | 24,000 |
| 9 | Cement Grinding | | Cement (PSC) | 1,00,000 |

4. Fume extraction system with bag house will be provided to SMS. Sensible heat of waste gas from MBF/BF will be used to generate power. Bag filters will be provided to blast furnace stock house and gas cleaning plant to control the particulate emissions. ESP will be provided to the Sinter Plant. Fume extraction with bag house will be installed at steel melting shop. Bag filters will also be provided to sinter plant for de-dusting. Dry type gas cleaning system with bag filters, ID fans etc. will be provided to ferro alloy plant. Dust suppression through water sprinkling will be provided at raw material handling area and solid waste dump site. Dust extraction system with bag house to control the particulate emissions at the cement grinding and packing section will be provided.

5. Existing fresh water makeup requirement is 1,020 m³/day. Make-up water requirement after proposed expansion from Damodar river through Durgapur Projects Limited will increase to 4,940 m³/day. Air-cooled condensers will be provided to AFBC power plant to reduce requirement of water. Boiler blow down will be neutralized in the neutralization tank before mixing with other effluent streams. The waste water from the MBF and ferro alloy plant will be sent to the settling tank. The cooling water from the cooling water blow down will be reused and the boiler feed after neutralization will be recycled. No effluent will be discharged outside the premises and 'zero' discharge will be adopted. It is proposed to develop rain water harvesting structure to use the water for the plant. After proposed expansion, out of total 45 MW power requirement, 5 MW will be captively generated and balance will be sourced from WBSEB grid.

6. Iron ore fines, dolomite fines, coal fines, Limestone, Coke fines, MBF dust will be used in sinter plant. Clinker fines and MBF slag will be used in slag grinding unit. SMS scrap will be recycled / reused. Fe-Mn slag will be used in Si-Mn manufacturing. SMS slag, Si Mn slag will be used for land filling and road making. Fe-Cr slag will be used for land filling / road making after TCLP test. Cement dust will be recycled. Fly ash will be provided to cement manufacturers. Used oil and used batteries will be sold to authorized recyclers.

7. The Integrated Steel Plants and Cement Grinding Units (< 1 MTPA) are listed at S.No. 3(a) in Primary Metallurgy Industry under Category 'A' and 3(b) under Category 'B' 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 18th meeting held during 24th -25th January, 2011. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public hearing for the project was held on 19.08.2010.

9. Based on the information submitted by you, presentation made by you and consultant, M/s Global Experts, Bhubaneswar, 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 mitigate RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), gas cleaning plant, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm³ by installing energy efficient technology. Fume extraction system shall be install to control the emissions within the prescribed standards.
- ii. Pet coke shall be used as fuel instead of charcoal from unknown sources. No charcoal should be used as fuel.
- iii. 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 should be followed.
- iv. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- v. Gaseous emission levels 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 for the sponge iron plant issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 should be followed.
- vi. Total makeup water requirement shall not exceed 4940 m³/d. Permission to draw water from the competent authority shall be obtained. Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged and 'zero' discharge shall be adopted. Sanitary sewage should be treated in septic tank followed by soak pit.
- vii. 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.
- viii. Regular monitoring of influent and effluent surface, sub-surface and ground water (including chromite) should be ensured and treated wastewater should 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 Bhubaneswar, SPCB and CPCB.
- ix. The water consumption shall not exceed as per the standard prescribed for the steel plants.

- x. 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.
- xi. All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.
- 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 Bhubaneswar, SPCB 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 Bhubaneswar, SPCB 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. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.
- xvii. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 19th August, 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 Bhubaneswar.
- xviii. At least 5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.
- 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:

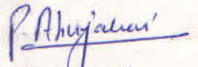
- i. The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government.
- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. The gaseous emissions from various process 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 WBPCB 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. Interlocking

facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.

- iv. 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 Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. All the environment management measures given in the EIA/EMP shall be implemented and complied with.
- 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. Proper house keeping and adequate occupational health programmes shall be taken up as per the Factory Act.
- ix. The company shall undertake eco-development measures including community welfare measures in the project area.
- x. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- xi. Requisite funds shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and used judiciously 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.
- xii. The 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.
- 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 WBPCB. The criteria pollutant levels namely; 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 respective Regional Office of

MOEF, the respective Zonal Office of CPCB and the WBPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/WBPCB 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 W. B. Pollution Control Board and may also be seen at the Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should 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 Bhubaneswar.
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. 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.


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

Copy to:

1. The Secretary, Department of Environment Govt. of West Bengal, Kolkata, West Bengal.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, West Bengal Pollution Control Board, Parivesh Bhawan, 10A Block-LA, Sector-III, Salt Lake, Kolkata - 700091, West Bengal.
4. The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests A-3, Chandrashekharpur, Bhubaneswar ? 751 023, Orissa
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File / Monitoring File / Record File.


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