

F. No. J-11011/201/2007- IA II (I)  
**Government of India**  
**Ministry of Environment and Forests**  
**(I.A. Division)**

**Paryavaran Bhawan**  
**CGO Complex, Lodhi Road**  
**New Delhi – 110 003**

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**Telefax : 011: 2436 7668**

Dated 20<sup>th</sup> December, 2007

To,

✓ M/s Mukand Steels Ltd. (Hospet Division)  
Hospet Road, Village Ginigera – 583228  
District Koppal, Karnataka.

**E-mail : [kcs1@hospetsteels.com](mailto:kcs1@hospetsteels.com) / [mukand@nda.vsnl.net.in](mailto:mukand@nda.vsnl.net.in)**  
**Fax No. : 08539-286611/286662**

**Subject : Expansion of Steel Plant (4,00,000 MTPA to 7,00,000 MTPA) at Hospet Road, Village Ginigera, District Koppal, Karnataka by M/s Mukand Steels Ltd. (Hospet Division) -Environmental clearance reg.**

**Ref. : Your letter no. ML/ENV/2007/36 dated 20<sup>th</sup> February, 2007.**

Sir,

This has reference to your letter no. ML/ENV/2007/36 dated 20<sup>th</sup> February, 2007 alongwith Form I, EIA/EMP and related project documents also with CD and subsequent clarifications furnished by you vide your letter 30<sup>th</sup> April, 2007, 18<sup>th</sup> July, 2007, 1<sup>st</sup> June, 2007 and 16<sup>th</sup> August, 2007 for environmental clearance on the above mentioned project.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that M/s Mukand Steels Ltd (Hospet Division) have proposed for the expansion of Steel plant (Hot Metal 4,00,000 MTPA to 7,00,000 MTPA) at Hospet Road, Ginigera, Koppal, Karnataka to manufacture Alloy and Engineering Steels in the form of Blooms and Billets. Part of bloom / billet will be sent to Rolling Mill of M/s Kalyani Steels Ltd., which will convert it into rolled section. Environmental clearance for the existing plant has been accorded by the Ministry vide letter no. J-11011/110/2005-IA.I(I) in 2006. Total project area is 186 acres and 30 acres will be used for expansion in the existing premises. No additional land will be required. No forest is located within 15 Km. No national park/wildlife sanctuary or reserve forest is located with 10 km. radius. Total cost of the project is Rs. 30.00 Crores.

2.0 Gas cleaning Plant (GCP) will be installed to control air emissions. Total water requirement from Thungabhadra river will be 3,282 m<sup>3</sup>/day. The State Govt. has accorded permission for 4.8 MGD.

3.0. Public Hearing / Public Consultation meeting is held on 28<sup>th</sup> May, 2007. 'Consent for Establishment' is also accorded by the Karnataka Pollution Control Board vide letter no. CFE-EIA/ML/EIA-669/2007-08/139 dated 8<sup>th</sup> October, 2007.

4.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 27<sup>th</sup> January, 1994 as amended subsequently subject to strict compliance of the following specific and general conditions:

**A. SPECIFIC CONDITIONS :**

- i) On-line stack monitoring facilities for all the stacks and sufficient air pollution control devices should be provided to keep the emission levels below 100 mg/Nm<sup>3</sup>. Gas cleaning Plant (GCP) shall be installed to control air emissions. The cleaned gas shall be used for generation of steam in blast furnace (BF) and captive power plant. Ventury scrubber, cyclone shall be provided to BF plant.
- ii) All the dust from the air pollution control equipment should be recycled and reused in the Sinter plant.
- iii) Secondary fugitive emissions from blast furnace and sinter plant 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. Bag filters and dust suppression system shall be provided to material handling area. Water sprinkling in raw material and slag storage area shall be done. Fume extraction system will be provided at ladle refining, bloom caster, billet caster etc. Secondary de-dusting system shall also be installed at the ladle furnace and energy optimizing furnace.
- iv) Total requirement of the water from Thungabhadra River shall not exceed 3,282 m<sup>3</sup>/day. The wastewater shall be treated, recycled and used in the process including gas cooling & cleaning, vacuum degassing and also in ladle furnace. No wastewater shall be discharged outside the premises and 'Zero' discharge shall be strictly followed as proposed. The domestic effluent shall be treated in septic tank followed by soak pits in plant area and sewage treatment plant in residential colony and used for green belt development.
- v) Prior permission for the drawl of ground as well as surface water from Thungabhadra river from the concerned department shall be obtained.
- vi) All the blast furnace slag shall be granulated and provided to cement manufacturers for further utilization. All the other solid / hazardous wastes viz. Lime, slag, GCP sludge, scales from continuous casting machine (CCM) shall be properly utilized or disposed off in environment friendly manner or sold to the genuine entrepreneurs. Cut ends shall be recycled and reused in the process. Refractory waste shall be recycled and reused or sold. Waste oil and lubricant shall be sold to authorized recyclers/reprocessors.
- vii) Green belt shall be developed in at least in 65 acres (33 %), out of total 186 acres within and around the plant premises as per the CPCB guidelines in consultation with DFO.
- viii) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) guidelines for the Steel Plants shall be strictly implemented.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board (KSPCB) and the State Government.

- ii. No further expansion or modifications in the plant should 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 19<sup>th</sup> 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. 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. In plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handlings etc. shall be provided. Further, specific measures like provision of dust suppression system consisting of water sprinkling etc. shall be installed at appropriate places and other raw material handling areas. Fume extraction system will be provided at ladle refining, bloom caster, billet caster etc. Secondary de-dusting system shall also be installed at the ladle furnace and energy optimizing furnace. Fugitive emissions shall be regularly monitored and records maintained.
- v. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the KSPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bangalore/CPCB/KSPCB once in six months.
- vi. 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 form time to time. The treated wastewater shall be utilized for plantation purpose.
- 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- viii. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- ix. 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.
- x. 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.
- xi. The project authorities shall provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the

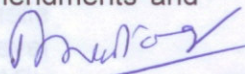
conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.

- xii. The Regional Office of this Ministry at Bangalore/CPCB/KPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
- xiii. 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 KSPCB and may also be seen at 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 should be forwarded to the Regional office.
- xiv. 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.

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


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

7.0. 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)  
Additional Director

Copy to:

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110032.
2. The Chairman, Karnataka State Pollution Control Board, Parisar Bhavan, No. 49, 4<sup>th</sup> & 5<sup>th</sup> Floor, Church Street, Bangalore – 560 001, Karnataka.
3. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IV<sup>th</sup> Floor, E&F Wing, 17<sup>th</sup> Main Road, Koramangala, Bangalore-560034.
4. The Secretary, State Department of Environment & Forests, Government of Karnataka Bangalore.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
6. Guard file.
7. Monitoring file.
8. Record file.

  
(Dr. P. B. Rastogi)  
Additional Director