

F. No. J-11011/251/2007- 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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**Dated 31<sup>st</sup> March, 2008**

To,  
The Vice President  
M/s ASR Multi-metals (Pvt.) Ltd.  
Chhadwada, Bharuch, Kutch  
Gujarat

**E-mail : [asrmultimetals@yahoo.co.in/asr.multimetals@yahoo.co.in](mailto:asrmultimetals@yahoo.co.in/asr.multimetals@yahoo.co.in).**  
**Fax No. : 011-25228872**

**Subject : Expansion of Integrated Steel Plant [Sponge Iron (200 TPD), Pig Iron (180 TPD) and Captive Power Plant (20 MW)] at Sy.No. 392/2, 398, 399 & 400, Chhadwada, Bhachau, Kutchh, Gujarat by M/s ASR Multi-metals (Pvt.) Ltd. – Environmental clearance reg.**

Sir,

Kindly refer your letter no. nil dated 28<sup>th</sup> February, 2007 alongwith project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report and subsequent clarifications furnished vide communications dated 18<sup>th</sup> April, 2007, 28<sup>th</sup> February, 2007, and 10<sup>th</sup> January, 2008 regarding above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted M/s M/s ASR Multi-metals (Pvt.) Ltd. have proposed for the expansion of Integrated Steel Plant [Sponge Iron (200 TPD), Pig Iron (180 TPD) and Captive Power Plant (20 MW)] at Sy.No. 392/2, 398, 399 & 400, Chhadwada, Bhachau, Kutch, Gujarat. Total project area is 78.72 acres and expansion will be carried out in the 39.6 acres. No national park, eco-sensitive area and wild life sanctuary is located within 10 km radius of the project. Total cost of the project is Rs.167.00 Crores.

2.0 TMT bars, MS angles, MS channel, round and square bars are manufactured presently. During proposed expansion, Sponge Iron (200 TPD), Pig Iron (180 TPD) and CPP (20 MW; 16 MW, coal/lignite based CPP and 4 MW, WHRB) will be installed. Sponge iron will be produced using S/L process. The Iron ( $Fe_3O_4$ ), Coke and limestone will be chemically reduced and physically convert into hot metal in blast furnace to manufacture pig iron.

3.0 ESP, bag house, gas cleaning system including 2 stage ventury, dust collector, closed storages, water sprinkling, covered belt conveyors etc. will be provided to control gaseous and fugitive emissions. Waste gases from sponge iron kilns will be utilized in WHRB. Total water requirement from GWSSB Narmada Main Canal will be 685

m<sup>3</sup>/day. No wastewater will be discharged outside the premises. Treated wastewater will be recycled / reutilized in process, dust suppression and green belt development. Fly ash will be provided to cement manufacturers. Slag will be used in construction activities and also provided to cement manufacturers. Coal char will be used as fuel in the AFBC boiler. Sinter fine ores will be used in the blast furnace.

4.0 Public hearing / Public consultation meeting was held on 26<sup>th</sup> October, 2007.

5.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under EIA Notification dated 14<sup>th</sup> September, 2006 subject to strict compliance of the following conditions :

#### A. SPECIFIC CONDITIONS

- i) On-line stack monitoring facilities for all the stacks and sufficient air pollution control devices viz. electrostatic precipitator to DRI kiln, gas cleaning system including 2 stage ventury scrubber to blast furnace etc. shall be provided to keep the emission levels below 100 mg/Nm<sup>3</sup> and reports submitted to the GPCB, CPCB and Ministry's Regional Office at Bhopal. Waste gases from sponge iron kilns shall be utilized in WHRB to generate power.
- ii) Secondary fugitive emissions from blast furnace and DRI 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.
- iii) Fugitive emissions shall be controlled by using closed storages, covered belt conveyors, bag house at transfer points and crusher house etc. Bag house / dust collector shall be provided at transfer points, raw material handling area, crusher house, screening plant, stock bin etc. to control fugitive emissions.
- iv) Total water requirement from Gujarat Water Supply and Sewage Board (GWSSB) Narmada Main Canal shall not exceed 685 m<sup>3</sup>/day. Effluent Treatment Plant (ETP) shall be installed for the treatment of process water. Wastewater from gas cleaning plant shall be recycled back to primary plant. Wastewater from DM Plant and cooling tower shall be utilized for sprinkling on road and raw material storage yard. No process water shall be discharged and 'Zero' discharge will be adopted. Domestic wastes shall be disposed off through septic tank followed by soak pit.
- v) Prior permission for the drawl of 685 m<sup>3</sup>/day water Narmada Main Canal shall be obtained from Gujarat Water Supply and Sewage Board (GWSSB).
- vi) All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed off anywhere else. All the blast furnace slag shall be granulated and provided to cement manufacturers for further utilization. Sinter fine ores shall be used in the blast furnace. All the other solid / hazardous waste generated shall be properly utilized or disposed off in environment friendly manner. Waste oil shall be sold

to recyclers as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.

- vii) All the fly ash shall be utilized as per Fly Ash Notification, 1999 as amended in 2003.
- viii) Green belt shall be developed in 13.20 ha (33%) out of total 31.306 ha. area in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO.
- ix) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel sector shall be strictly implemented and progress report shall be submitted to MOEF/CPCB.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Gujarat 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 19<sup>th</sup> May, 1993 and standards prescribed from time to time. The Gujarat Pollution Control Board (GPCB) 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 levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- iv. In-plant control measures for controlling fugitive emissions from spillage/raw materials handling shall be provided. Further, specific measures like water spraying at all the transfer points, conveyor and hoppers, curtains, suitable enclosures, dust collection system and water sprinkling on road shall be provided to control fugitive emissions. Data on fugitive emissions shall be regularly monitored and records maintained.
- v. 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, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the State Pollution Control Board. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhopal and GPCB / CPCB once in six months.
- vi. Dust suppression through water sprinkling shall be adopted in raw material handling area, unloading areas and transfer points to control fugitive emissions. Dust extraction system shall be provided at various dust generating

points to control fugitive emissions. In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided.

- vii. 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 from time to time. The treated wastewater shall be utilized for plantation purpose.
- viii. 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 (day time) and 70 dBA (night time).
- ix. The company shall undertake rainwater harvesting measures by collecting the rainwater through drains. The water collected shall be connected to raw water pipeline for reuse in the plant. The company shall provide proper drainage system for rainwater to prevent water logging within and in the vicinity of the plant.
- x. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- xi. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report and during the public hearing meeting. 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.
- xii. As mentioned in the EIA/EMP, Project authorities shall earmark Rs.11.27 Crores and Rs. 1.30 Crores towards the capital cost and recurring expenditure/annum earmarked for the environmental pollution control to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for complying with all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry at Bhopal / CPCB / GPCB. The funds so provided shall not be diverted for any other purposes.
- xiii. The Regional Office of this Ministry at Bhopal / CPCB / GPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.
- xiv. 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 Gujarat Pollution Control Board 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.

- xv. 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.

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, Department of environment and Forests, Govt. of Gujarat, Gandhi Nagar, Gujarat.
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (West), Link Road No. 3, E - 5, Arera Colony, Bhopal - 462 016, M. P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman Gujarat Pollution Control Board, Paryavaran Bhawan, Sector 10-A, Gandhi Nagar - 382 010, Gujarat.
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, 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**