



सत्यमेव जयते

Government of India
Ministry of Environment and Forests

F. No. J-11011/7/2011-IA-II (I)

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To

Dated: 10th March 2014

M/s Steel Authority of India Limited,
(Chandrapur Ferro Alloy Plant),
(Formerly M/s Maharashtra Elektros melt Limited)
Ispat Bhawan, Lodhi Road,
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Subject: Expansion of Ferro alloys capacity from 0.1 MTPA to 0.1725 MTPA by installation of 1X45 MVA Submerged Electric Arc Furnace & 4 MW Gas based Power Plant at SAIL- **Chandrapur Ferro Alloy Plant of M/s Steel Authority of India Limited - [Formerly M/s Maharashtra Elektros melt Limited]**, district Chandrapur in Maharashtra – **Environmental Clearance – reg.**

Sir,

This is with reference to your letter no. CFP/PROJ/ENV-CLEARANCE/2012-13/1964 dated 2.7.2012 along with copies of EIA-EMP report and subsequent communications dated 24.8.2012, 15.1.2013, 11.2.2013, 12.8.2013 and 07.02.2014 seeking environmental clearance under the provisions of EIA Notification, 2006. The Terms of Reference (TOR) for the aforesaid project was accorded by the Ministry vide letter of even no dated 14.03.2011.

2. The Ministry of Environment and Forests has examined the application for the above project. It is noted that M/s Steel Authority of India Limited - Chandrapur Ferro Alloy Plant [Formerly M/s Maharashtra Elektros melt Limited] have proposed for expansion of Ferro alloys capacity from 0.1 MTPA to 0.1725 MTPA by installation of 1X45 MVA Submerged Electric Arc Furnace & 4 MW Furnace Gas based Power Plant at SAIL-CFP, Chandrapur in Maharashtra. All the Ferro Alloy Plants are listed at S.No. 3(a) in Primary Metallurgical Industries under category 'A' of the Schedule of EIA Notification, 2006 requiring an Environmental clearance from the MOEF. It is noted that the existing unit was commissioned in 1977 and did not require Environmental Clearance at that time. Total project area is 212.69ha and the proposed expansion will be done within the existing plant area. Total plantation at the premises of SAIL-CFP is spread over an area of 75 ha, which is about 35% of the total area. It is proposed to plant 2,000 tree saplings every year to nearby villages. As per the authentication provided by the Chief Wildlife Warden – Government of Maharashtra on 11.2.2013, the distance of the project site from Tadoba Andhari Tiger Reserve (TATR) is 16.57 km and the distance from buffer of TATR is 5.15 km, at the western most tip of the broader TATR corridor. The project has been approved by the National Tiger Conservation Authority (NTCA) vide letter F.N. 7-12/2013-NTCA dated 20.11.2013. Notified archaeological sites like Achaleshwar Temple, Mahadev Temple, Mahakali Temple are at a distance of 3 km (approx.) from the project. The project is located at a distance of 10.7 km from MIDC, Chandrapur, 15.2km from Ballarpur, 21.7km from Ghuggus, and

17.6km from Tadali Critically Polluted Areas. Public Hearing/Public Consultation meeting was conducted by the Maharashtra Pollution Control Board on 21.4.2012. The total project cost is Rs. 221.42 crores and Rs. 12 crores is allocated towards the pollution control measures.

3. The details of the existing and proposed product are given below:

S. N.	Facilities/Products	Existing	Proposed	Total
1	Submerged Arc Furnace (MVA)	2 x 33	1 x 45	111
2	Furnace Gas based Power Plant (MW)	1 x 4.2	1 x 4	8.2
	Production			
a)	Ferro manganese (HCFe-Mn) (TPA)	59,160	37,500	96,660
b)	Silico manganese (Si-Mn) (TPA)	45,540	35,000	80,540
	Total (TPA)	1,04,700	72,500	1,77,200

4. It is noted that Particulate Matter (PM) emissions from the furnaces will be effectively collected through a Gas Cleaning System. The furnace gas cleaning system will consist of Wet Scrubber Type GCP and Effluent Treatment Plant. Adequate Stack Height will be provided for the furnace & power plant. Dry fog dust suppression system will be provided at all transfer points of Raw Material charging system for dust suppression. For preventing spreading of emissions during hot metal tapping, high efficiency bag filters will be provided. Raw material handling section would be provided with dust suppression/dust collection systems. Covered conveyor belts will be used to prevent fugitive emissions. Online stack monitors shall be provided for Furnace & Power Plant Stacks.

5. The total water requirement for proposed expansion will be 4,080m³/day and will be sourced from ground water. All the buildings of proposed project will be provided with suitable rainwater harvesting system. The water requirement for the SAF is only for cooling purpose and for cleaning of waste furnace gases. There would be no discharge outside the project area. The slurry from the Gas Cleaning Plant (GCP) will be treated in the Effluent Treatment Plant and Clarified water shall be recycled to the GCP. The effluent treatment plant shall be designed so as to maintain zero discharge.

6. It is noted that the Fe-Mn Slag will be used for Si-Mn production and Si-Mn slag will be supplied to Western Coalfields Limited for mine stowing. The GCP sludge will be used in the existing Sinter Plant. The used/spent oil will be sold to authorized reusers/ recyclers registered with CPCB/ MoEF.

7. The proposal was considered by the Reconstituted Expert Appraisal Committee (Industry) in its 2nd meeting held during 29-31st October, 2012. The Committee sought additional information for reconsideration. The additional information was submitted on 11.2.2013 and the proposal was reconsidered by the REAC (Industry) in its 6th meeting held during 5-7th March 2013. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions.

8. Based on the information submitted and presentation made thereon by you and your consultant, M/s. Anacon Laboratories Private Limited Nagpur, the Ministry of Environment and Forests hereby accords environmental clearance to the above-mentioned project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:

