

No. EN/78/11-1/099/2009

Date: 18/03/2011

To

✓ **M/s. Brand Alloys Ltd.**
37, Shakespeare Sarani
Kolkata - 700 017

Subject : **Environmental Clearance for the proposed expansion project for installation of Induction Furnace by M/s. Brand Alloys Ltd. at JL No. - 10, Vill. & Mouza - Chatra, PO - Belurmilky, NH-2, Delhi Road, PS - Serampore, Dist. - Hooghly, Pin - 712223, West Bengal.**

Sir,

This has a reference to the application dated 17.11.2009 and subsequent communications for Environmental Clearance for the proposed expansion project for installation of Induction Furnace by M/s. Brand Alloys Ltd. at JL No. - 10, Vill. & Mouza - Chatra, PO - Belurmilky, NH-2, Delhi Road, PS - Serampore, Dist. - Hooghly, Pin - 712223, West Bengal.

The proposal has been examined and processed in accordance with EIA Notification of 2006. The major components for expansion of capacities of the existing plant for manufacturing Steel Casting (15,000 TPA) are as follows :-

- i. Induction Furnace (1x15 tonne)
 - ii. Electric Arc Furnace (1x18 tonne, for the purpose of melting only)
 - iii. Ladle Refining Furnace (1x20 tonne)
 - iv. Vacuum Degassing (VD) / Vacuum Oxygen Decarburization (VOD) (1x20 tonne)
 - v. Sand Plant (1x20 TPH) and
 - vi. Heat Treatment Furnace (1x20 TPH)
2. The existing plant has the following units for manufacturing Steel Ingots / Billets, Steel Castings, Steel Fabrication and Steel Rods & Bars:-
- i. Induction Furnaces (2x3 tonne, 1x2.5 tonne, 1x6 tonne)
 - ii. Electric Arc Furnace (1x2.5 tonne)
 - iii. Rolling Mill (1x100 TPD) and
 - iv. Annealing Furnace (1x10 tonne)
3. It is noted that the salient features of the project for which Environmental clearance has been considered are as follows :
- i. Location of the Site - JL No. - 10, Vill. & Mouza - Chatra, PO - Belurmilky, NH-2, Delhi Road, PS - Serampore, Dist. - Hooghly, Pin - 712223, West Bengal.
 - ii. Land Area - within the existing plant of 14 acres.
 - iii. Proposed Installation - Induction Furnace (1x15 tonne), Electric Arc Furnace (1x18 tonne), Ladle Refining Furnace (1x20 tonne), VD / VOD (1x20 tonne), Sand Plant (1x20 TPH) and Heat Treatment Furnace (1x20 TPH).
 - iv. Raw Materials - Sponge Iron, Pig Iron, MS Scraps, Silico Manganese, Ferro Silicon.
 - v. Additional Production Capacity - Steel Casting (15,000 TPA).
 - vi. Air Pollution Control Device - Furnaces should be provided with fume extraction and dedicated pollution control systems consisting of Swiveling Hood, Spark Arrestor, Bag Filter, ID Fan etc. and stack of height 45m from GL, as proposed.

- vii. Additional Water Requirement - 120 KLD, existing borewell.
- viii. Solid Waste - slag will be used for landfilling, road construction etc.
- ix. Power Requirement - 6,000 KVA, WBSEDCL.

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused the recommendations of the State Level Expert Appraisal Committee(SEAC). After due consideration of the project proposal, and after considering the recommendations of the State Expert Appraisal Committee(SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA Notification No. S.O.1533 (E) dt. 14th September,2006 of Ministry of Environment & Forests, Gol, subject to strict compliance of terms and conditions as mentioned in subsequent section.

A. SPECIFIC CONDITIONS:

- i. The gaseous emissions from various process units should conform to the load / mass based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.
- ii. Furnaces should be provided with fume extraction and dedicated pollution control systems consisting of Swiveling Hood, Spark Arrestor, Bag Filter, ID Fan etc. and stack of height 45m from G.L. as proposed. A secondary fume extraction system with adequate side suction should be provided to prevent fugitive emission during charging. The suction should be adequate to control fugitive emission. Stack emission (PM) should not exceed 50 mg/Nm³. Stack emissions should be monitored at regular intervals and records should be maintained.
- iii. The arc furnace will be used for downstream operation of induction furnace and not for primary metallurgical operation. The unit shall install fourth hole fume collection system at the Electric Arc Furnace.
- iv. Dust collection from Bag filter should be done through pneumatic control system. Collected dust is to be sold for landfilling subject to the condition that it does not fall under the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
- v. Regular monitoring of the ambient air quality shall be carried out in and around the plant and records shall be maintained. The ambient air quality standards as per GSR 826 (E) dated 16.11.2009 to be maintained.
- vi. Adequate measures to be adopted for control of fugitive emission. Regular water sprinkling should be done to control the fugitive emission.
- vii. Groundwater shall not be abstracted without prior permission of competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.
- viii. Sponge iron should be used as major raw material in Induction Furnace (at least 70% of the total input). Use of galvanised iron scrap as raw material is not permitted.
- ix. Covered storage yard for raw materials to be provided. Loading and unloading operations should not be carried out in open areas.
- x. Adequate provisions should be made for harvesting rainwater. The unit must develop adequate storage capacity to harvest rainwater. The harvested water should be used for plantation, firefighting, washing and cleaning etc. Recharging of Groundwater is not permitted.
- xi. The unit has mentioned that there are two existing waterbodies within the plant premises. The existing waterbodies should be retained and properly maintained.
- xii. Process effluent discharge is not permitted. Cooling water should be recycled.