

Department of Environment
Government of West Bengal
Block-G, 2nd Floor, Writers Building
Kolkata - 700 001

No. EN/ 78/T-II-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, GoI, 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.

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

- xiii. Solid wastes are generated in the form of scrap and slag. Scrap should be recycled in the proposed plant as proposed. Slag may be used for road construction and land filling, however, indiscriminate dumping is not permitted under any circumstances.
- xiv. Ambient noise level should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards 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 dB(A) Leq (daytime) and 70 dB(A) Leq (nighttime) and its subsequent amendments.
- xv. Green belt shall be developed within the plant premises. At least 34% of the area should be kept for green belt development, as proposed. Selection of appropriate species for the plantation programme may be done in consultation with DFO / West Bengal Wasteland Development Corporation Ltd/ West Bengal Biodiversity Board. There should not be any removal/destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of appropriate authority.
- xvi. All internal roads should be concreted / pitched. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper house keeping shall be maintained within the premises. Solar lighting should be used as far as practicable.
- xvii. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xviii. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
- xix. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
- xx. The Corporate Social Responsibility Plan with specific financial commitment should be implemented for the proposed project. At least 5% of the project cost should be utilised for Corporate Social Responsibility programmes.

B. GENERAL CONDITIONS :

1. The environmental clearance accorded shall be valid for a period of 5 years for the proposed project.
2. Prior Consent-to-Establish (NOC) for the proposed expansion project must be obtained from WBPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.
3. The project proponent shall comply with all the environmental protection measures and safeguards recommended. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
4. All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.
5. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits. Environmental sanitation should be ensured for the workers.
6. The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.

Conditions 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.

7. No further expansion or modifications in the plant should be carried out without prior approval of the State Environmental Impact Assessment Authority. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.
8. The West Bengal Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to the WBPCB regularly. A complete set of all the documents should also be forwarded to the State Environmental Impact Assessment Authority.
9. The State Environmental Impact Assessment Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.
10. The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the SEIAA (<http://enviswb.gov.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.
11. The Project Authorities should inform the State Pollution Control Board as well as the SEIAA, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work/project implementation.
12. The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.

Yours faithfully,



(Debal Ray)

Member Secretary, SEIAA &
Chief Environment Officer