

State Environment Impact Assessment Authority,
2nd Floor, Beltron Bhawan, Shastri Nagar, Jawhar Lal Nehru Marg, Patna-800023

Ref. No.-

Date

To,

M/s Dina Metals Ltd.,
Abdul Rahmanpur Road,
Didarganj, Patna City, Patna

**Sub: Environmental Clearance for the proposal for modification of existing
induction Melting Furnace Unit By M/S Dina Metals Ltd., Didarganj,
Patna (Bihar)**

Sir,

This has reference to your application nil dated 25/07/2011 and subsequent communications for Environmental Clearance. Your proposal has been examined by SEIAA on the recommendations of the SEAC and processed in accordance with the EIA Notification of 2006 and its amendment thereof.

It is noted that the Project Proponent, M/s Dina Metals Limited, has its induction Melting Furnace Unit for production of Mild Steel Ingots at Abdul Rahmanpur Road, Didarganj, Patna City, Patna. The present proposal has been submitted for modernization and expansion of existing unit within the same premises (at the same location) by replacing the existing four furnace, each having capacity of 4 MT/cycle, with four new furnaces, each having capacity of 8 MT/cycle.

The salient features of the project, for which Environmental Clearance has been considered, are as follows:

1. Name of the project: Dina Metals Limited: Induction Melting furnace
2. Project Location: 25° 34' 40" N 85° 08' 38" E

Abdul Rahmanpur Road, Didarganj,
Patna City, Patna- 800 008

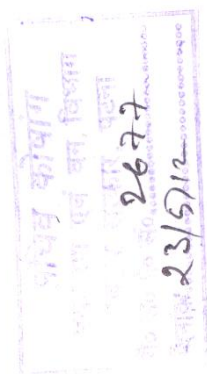
3. Land Area: The project proposal is for modernization and expansion of existing induction Melting Furnace Unit within the same premises of Dina Metals Limited; hence no additional land is required.

Command area 211 M²: Lease area: 18373 M²

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4. Water Requirement: 5 KLD for cooling tower make up. No water required in manufacturing of M.S. Ingots as it is a dry process. For domestic purposes, water from existing two nos. of bore wells.
5. Power Requirement: 9.6 MW from Bihar State Electricity Board
DG Set for lighting purposes.
6. Raw materials: Sponge Iron, Iron & steel scrap, pig iron, Ferro alloys
7. Emission Sources: Emission of SO₂ NO_x & SPM during melting of iron through stacks
8. Industrial Process Waste : Iron dust & slag
9. Production Capacity : Existing: 200 MT/Day; Proposed: 400 MT/Day
10. Product: Mild steel ingots.
11. Total cost of the Project : 878.95 Lakhs
12. The project site does not come under ecologically sensitive zone.


The unit has proposed to replace its existing 4 Nos. of Induction Furnaces of capacity of 4.0 MT each with 4 Nos. of new Induction Furnaces having capacity of 8.0 MT each for producing mild steel ingots within the existing premises. The old existing 4 Nos. of Furnaces of capacity of 4.0 MT each would be dismantled after installation of the proposed 4 Nos. of 8.0 MT each.

Sponge Iron and M.S., scrap, cast iron would constitute the major raw materials. The raw material is charged into the furnaces through the top opening by removing the top lid of the furnace and tipping the skips. When, it gets melted, it is poured into moulds and then cooled. After cooling, the ingots are removed and cleaned. The finished ingots are ready for dispatch.

The plant would have two ID Fans and heavy duty electric transformer. The entire operation of the furnace is manual. No excessive noise is generated. The iron dust and slag will be the only solid waste being generated in the plant, say about 0.112 ton of slag produced per ton of finished products. These solid wastes will be used for paving road and filling of low lying land in the vicinity. The whole process is a dry process.

Specific Conditions:


1. No land development/construction work preliminary or otherwise relating to the project shall be undertaken without obtaining due clearance from the respective authorities.
2. For controlling fugitive emission regular sprinkling of water shall be done.

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3. Regular monitoring of air quality including, SPM & SO₂ levels both in the work zone and ambient air shall be carried out around the furnace and should adhere to the National Ambient Air Quality as per the notification No. S.O. 217 dated 18th November, 2009 of the Air (Prevention & Control of Pollution) Act, 1981 and records shall be maintained.
 4. The Particulate matter concentration should not exceed the prescribed norms of 150 mg/m³ as amended to date.
 5. The stack emission should be monitored regularly and shall meet prescribed standards of CPCB. The stack height should be as per CPCB norms.
 6. 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 standard viz. 75 dB (A) (daytime) and 70 dB (A) (nighttime) as per the Noise Pollution (Regulation and Control) Rules, 2000 notified vide S.O. 123 (E) dated 14 Feb, 2000 and its subsequent amendments by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
 7. Green belt shall be developed within and around the plant premises. Green belt to be developed at least 33% of the project area. Selection of appropriate species for the plantation programme may be done in consultation with the Environment & Forest Deptt., Bihar.
 8. The unit must develop a separate water body to harvest rain water so as to use the stored water for serving partial requirement of plant as also to use for plantation, firefighting, washing & cleaning etc.
 9. Transportation of any raw material (scrap, sponge iron etc) to the plant should be brought through covered carrier without any air pollution at transfer point.
 10. Adequate parking facility should be made within the factory premise for unloading of raw materials and loading of finished products to avoid traffic congestion on main road.
 11. Adequate safety measures shall be provided to limit the risk zone within plant.
 12. 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 be maintained as per the Factories Act.
 13. The unit shall undertake all possible measures to minimize the wastes by:

- (a) Reuse the by-products from the process material substitute in other process.
 - (b) Maximizing recovery from the wastes.
 - (c) Use of automated material transfer system to minimize spillage.
14. Necessary arrangement shall be made for adequate safety and ventilation in the furnace area.
15. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed in the pre-feasibility report

● **General Conditions:**

- i. 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 habitation such as community development programmes, educational programmes and health care, etc.
- ii. All the conditions, liabilities and legal provisions contained in the E.C 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.
- iii. The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The funds so provided should not be diverted for any other purpose.
- iv. No further expansion or modifications in the plant should be carried out without prior approval of the State Environmental Impact Assessment Authority.
- v. The Bihar State 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 BSPCB and Regional Office of MoEF regularly. A complete set of all the documents should also be forwarded to the State Environmental Impact Assessment Authority. This report shall also put on the website of the Company and also regularly be updated.
- vi. In the case of any changes(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA.

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- vii. The State Level Environment 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.
- viii. 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 SEIAA Secretariat and may also be seen at Website. This should be advertised by the project proponent within seven days from the widely circulated in the region of which one shall be in the vernacular language of the locality concerned.
- ix. Prior Consent-to-Establish (NOC) for the proposed project must be obtained from BSPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.
- x. The environmental clearance accorded shall be valid for a period of 5 years for the proposed project. 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.

Sd/-

(S.K. Karn)
Member Secretary
SEIAA, Bihar

Memo No. :- 54

Patna- 21/5/12

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Copy forwarded to : The Principal Secretary, Environment & Forests Department, Vikash Bhawan, Patna/ The Chairman, Bihar State Pollution Control Board, Beltron Bhawan, IInd Floor, LBS Nagar, Jawahar Lal Nehru Marg, Shastrinagar, Patna- 800023/Chairman, SEAC, Bihar/Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-23/ Chief Conservator of Forest (C), Ministry of Environment & Forests, Regional Office (EZ), A/3, Chandrasekharpur, P.O. Rail Vihar, Bhubaneswar - 751023/, Advisor (EIA), Paryavaran Bhawan, Ministry of Environment & Forests, CGO Complex, Lodhi Road, New Delhi- 110003/ Gurad File.



(S.K. Karn)
Member Secretary
SEIAA, Bihar