

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

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Salt Lake, Kolkata - 700 106

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No. 1413 /EN/T-II-1/071/2014

Date : 12 / 06 / 2015

To
M/s. Purulia Metal Casting Pvt. Ltd.
Barakar Road
P.O. Vivekananda Nagar, District - Purulia
Pin - 723 147

SUB. : Environmental Clearance for the proposed expansion project for installation of Induction Furnaces of 1x15 T by M/s. Purulia Metal Casting (P) Ltd. at the existing plant premises at J.L no.-261, Vill - Bongabari, P.O-Vivekananda Nagar, Dist - Purulia, Pin - 723147, West Bengal.

Sir,

This has a reference to your application dated 27/08/2014 and subsequent communications for environmental clearance for the proposed expansion project for installation of Induction Furnaces of 1x15 T by M/s. Purulia Metal Casting (P) Ltd. at the existing plant premises at J.L no.-261, Vill - Bongabari, P.O-Vivekananda Nagar, Dist - Purulia, Pin - 723147, West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. It is noted that the proposed proposal is for expansion for installation of Induction Furnace (1x15T) for manufacturing MS billets (MS Ingots - 59400 TPA) at the existing plant. The existing and the proposed facilities are as follows :

Installations	Existing Capacity	Proposed Capacity
Induction Furnace	1x6T & 1x7 T (MS Ingot- 46800 TPA)	1x15T (MS Ingot-59400 TPA)
Rolling mill	120000 TPA	-----
Coal gasifier	1x6000 Nm ³ /hr	-----

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 - J.L no.-261, Vill - Bongabari, P.O-Vivekananda Nagar, Dist - Purulia, Pin - 723147, West Bengal.
- ii) Land Area - 12.47 acres (Existing)
- iii) Greenbelt Development - 33% of total land area i.e. 4.26 acres
- iv) No. of trees to be planted : 1300
- v) Raw Materials (For Expansion) - Sponge Iron - 40080 TPA, Pig Iron - 8170 TPA, MS Scrap - 16790 TPA, Ferro alloys- 760 TPA
- vi) Additional Emission sources- 1x15 T induction furnace
- vii) Air Pollution Control Device - Bag Filter and stack of height 30m from GL to be provided with individual induction furnace.
- viii) Water requirement - [existing-39 KLD & expansion-13 KLD] source: ground water and rain water harvesting.
- ix) Effluent - Waste water from cooling process of induction furnace will be reused.
- x) Solid Waste - Slag from induction furnace (5930 TPA) will be used for landfilling / road development/ filling of abandoned mines. Solid waste from APCD (356 TPA) will be recycled in process.

Conditions for Environmental Clearance for the proposed expansion project for installation of Induction Furnaces of 1x15 T by M/s. Purulia Metal Casting (P) Ltd. at the existing plant premises at J.L no.-261, Vill – Bongabari, P.O-Vivekamanda Nagar, Dist – Purulia, Pin – 723147, West Bengal.

xi) Power Requirement – Additional-7.5 MW, existing-10 MW from DVC

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and after considering the recommendations of the State Level 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 below :-

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. Induction 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 30m from G.L. Secondary fume extraction system with adequate side suction should be provided to prevent fugitive emission during charging. Suction should be adequate to control fugitive emission. Stack emission (PM) from induction furnaces should not exceed 50 mg/Nm³. Stack emissions should be monitored at regular intervals and records should be maintained.
- iii. Dust collection from Bag filter should be done through pneumatic control system. Collected dust is to be recycled back to process or sold for landfilling subject to the condition that it does not fall under the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
- iv. Regular monitoring of the air quality shall be carried out in and around the plant and records shall be maintained.
- v. Adequate measures to be adopted for control of fugitive emission. Regular water sprinkling should be done to control the fugitive emission.
- vi. Groundwater should be abstracted as per the permission obtained from the competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.
- vii. At least 13000 KL/annum of rain water to be harvested and to be used in the plant reducing ground water extraction to the maximum extent.
- viii. Sponge iron and Pig iron should be used as major raw material in Induction Furnace (at least 70% of the total input). Use of galvanized 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. As proposed, the unit must develop storage facilities to harvest rain water of capacity 10500 KL so as to use the stored water for plantation, firefighting, washing & cleaning etc. Recharging of ground water is not permitted.
- xi. Process effluent discharge is not permitted. Cooling water should be recycled.
- xii. 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.
- xiii. 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.
- xiv. Green belt shall be developed within and around the plant as per proposal submitted. At least 33% of the land area should be covered by plantation. At least 1300 no. of trees to be planted. Indicative list of



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- species is given at Annexure-I. 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.
- xv. 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.
 - xvi. 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.
 - xvii. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
 - xviii. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
 - xix. 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:

- i. The environmental clearance accorded shall be valid for a period of 5 years for the proposed expansion project.
- ii. 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.
- iii. 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 programs, educational programs, drinking water supply and health care etc.
- iv. 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.
- v. 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.
- vi. 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, West Bengal along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
- vii. No further expansion or modifications in the plant should be carried out without prior approval of the State Level Environment Impact Assessment Authority, West Bengal. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, West Bengal.
- viii. 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, West Bengal.
- ix. The State Level Environment Impact Assessment Authority, West Bengal reserves the right to add



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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.

- x. The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA, West Bengal 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, West Bengal (<http://enviswb.gov.in>). This should be advertised within seven days from the date of issuance 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.
- xi. The Project Authorities should inform the State Pollution Control Board as well as the SEIAA, West Bengal, 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.
- xii. 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, Handling and Transboundary Movement) Rules, 2009, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.
- xiii. The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Shri Bhabani Prasad Mukherjee, Director
Address	Barakar Road P.O. Vivekananda Nagar, District - Purulia Pin – 723 147
E-mail, Telephone Number, Fax Number	puruliametalcasting2013@gmail.com Tel : 03252 224202 Fax : 03252 224202
Name of the Consultant	M/s. Environ India

(Dr. Jose T. Mathew)
Chief Environment Officer &
Member Secretary, SEIAA

No. 1413 /EN/T-II-1/071/2014 /1(5)

Date : 12/ 06 /2015

Copy forwarded to :-

1. Secretary, SEAC & M.S. WBPCB
2. Monitoring Cell, Department of Environment, Government of West Bengal.
3. Officer-in-Charge, Regional Office (Eastern Zone), Ministry of Environment & Forests, Government of India, A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
4. Chief Inspector of Factories, I, K.S. Roy Road, Kolkata – 700 001
5. Guard file / Record file.

Sd/-
Chief Environment Officer &
Member Secretary, SEIAA

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Annexure - I

LIST OF TREES PROPOSED FOR PLANTATION

Sl. No.	BOTANICAL NAME	COMMON NAME	QUANTITY
1.	<i>Acacia auriculiformis</i>	Sonajhuri	300
2.	<i>Albizia lebbek</i>	Siris	25
3.	<i>Anthocephalus cadamba</i>	Kadamba	25
4.	<i>Madhuca latifolia</i>	Mahua	150
5.	<i>Dalbergia sissoo</i>	Sissoo	100
6.	<i>Delonix regia</i>	Gulmohor	175
7.	<i>Holoptelea integrifolia</i>	Nata karanja	15
8.	<i>Mangifera indica</i>	Mango	25
9.	<i>Azadirachta indica</i>	Neem	25
10.	<i>Polyalthia longifera</i>	Debdaru	250
11.	<i>Saraca asoca</i>	Ashok	10
12.	<i>Tectona grandis</i>	Teak / Segun	50
13.	<i>Terminalia arjuna</i>	Arjun	150
		Total	1300

ms