

Department of Environment
Government of West Bengal
Block G, 2nd Floor, Writers Building
Kolkata :700001

No. EN/ 03 /T-II-1/037/2012

Date : 01/07/2013

To
M/s. Shakambhari Ispat & Power Ltd.
11 – A.M.D. Road, 4th Floor
Room No. 3
Kolkata – 700 007

Subject : Environmental Clearance for the Proposed expansion project by installing Induction Furnaces with Caster, Re-Rolling Mill by M/s. Shakambhari Ispat & Power Ltd. at the existing plant premises at Vill – Madandhah, PO – Bortoria, PS – Neturia, Dist – Purulia, Pin – 723 121, West Bengal.

Sir,

This has a reference to your application dated 18/05/2012 and subsequent communications for Environmental Clearance for the Proposed expansion project by installing Induction Furnaces with Caster, Re-Rolling Mill by M/s. Shakambhari Ispat & Power Ltd. at the existing plant premises at Vill – Madandhah, PO – Bortoria, PS – Neturia, Dist – Purulia, Pin – 723 121, West Bengal.

The proposal has been examined and processed in accordance with EIA Notification, of 2006. It is noted that the proposed proposal is for expansion for installation of Induction Furnace (1x8 tonnes per hour & 2x15 tonnes per hour) with Caster (400 tonnes per day) Re-Rolling Mill and Coal (0.9 MTA) for production of MS Billets of 1,23,000 MT per annum at the existing plant.

The existing and the revised proposed facilities are as follows :

Installations	Existing Capacity	Proposed Capacity
Induction Furnace with Caster	2x12 MT (45600 tonnes per annum)	1x8 TPH & 2x15 tonnes per hour
Sponge Iron	3x100 tonnes per day	-
CPP	1x12 MW	-
Rolling Mill (oil fired)	-	400 tonnes per day

It is noted that the salient features of the project, for which Environmental clearance has been considered are as follows :

- Location of the Site - Vill. – Madandhah, PO – Bortoria, PS – Neturia, Dist. - Purulia, Pin – 723121, West Bengal.
- Land Area – 25 acres (Existing -12 acres & expansion-13 acres within the existing plant).
- Greenbelt Development – 33% of total land area i.e. 8.25 acres.
- Number of trees to be planted - 2300
- Raw Materials – Sponge Iron (55176 tonnes per annum), Scraps (49248 tonnes per annum).
- Additional production capacity- MS Billets-123000 tonnes per annum & TMT bars- 120000 tonnes per annum.
- Air Pollution Control Device – Swiveling hood, Spark Arrestor, Bag Filters and stack of height 30m from GL to be provided with induction furnace. Adequate dust extraction system to be provided with reheating furnace of rolling mill.



Conditions for Environmental Clearance for the proposed expansion project by installing Induction Furnaces with Caster, Re-Rolling Mill by M/s. Shakambhari Ispat & Power Ltd. at the existing plant premises at Vill – Madandhih, PO – Bororia, PS – Neturia, Dist – Purulia, Pin – 723 121, West Bengal.

- viii. Additional water requirement – 0.22 MGD, source: DVC.
- ix. Effluent – Waste water from cooling process of induction furnace will be used in greenbelt development.
- x. Solid Waste – Slag from induction furnace, solid waste from APCD will be used for landfilling.
- xi. Power Requirement – Additional-22 MVA, DVC. (Existing – 13.5 MVA)
- xii. Back-up Power – DG Sets (1x750 KVA & 1x500 KVA)

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 cum Cyclone separator, Bag Filter, ID Fan etc. and stack of height 30m from G.L. as proposed. Secondary fume extraction system with adequate side suction should be provided to prevent fugitive emission during charging. Adequate dust extraction system to be provided with re-heating furnace of rolling mills. Stack emission (PM) 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 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. Bag filter of adequate capacity to be provided to the raw material handling section.
- vi. Groundwater should not be abstracted without obtaining permission from the competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005. Water requirement for the proposed expansion project should be met from DVC as per permission obtained.
- vii. Sponge iron and Pig 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.
- viii. Covered storage yard for raw materials to be provided. Loading and unloading operations should not be carried out in open areas.
- ix. As proposed, the unit must develop storage facilities to harvest rain water of capacity 900 KL so as to use the stored water for plantation, firefighting, washing & cleaning etc. Recharging of ground water is not permitted.
- x. Process effluent discharge is not permitted. Cooling water should be recycled.
- xi. 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

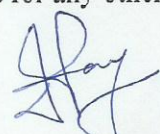
Conditions for Environmental Clearance for the proposed expansion project by installing Induction Furnaces with Caster, Re-Rolling Mill by M/s. Shakambhari Ispat & Power Ltd. at the existing plant premises at Vill – Madandhah, PO – Bortoria, PS – Neturia, Dist – Purulia, Pin – 723 121, West Bengal.

permitted under any circumstances.

- xii. 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.
- xiii. Green belt shall be developed within and around the plant premises in consultation with DFO / West Bengal Wasteland Development Corporation Ltd/ West Bengal Biodiversity Board. As proposed, at least 33% of the land area should be covered by plantation. 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. As proposed approx. 2300 nos. of sapling to be planted.
- xiv. 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.
- xv. 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.
- xvi. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
- xvii. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
- xviii. The Corporate Social Responsibility Plan with specific financial commitment should be implemented for the proposed project. Atleast 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 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 programmes, educational programmes, 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.

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Conditions for Environmental Clearance for the proposed expansion project by installing Induction Furnaces with Caster, Re-Rolling Mill by M/s. Shakambhari Ispat & Power Ltd. at the existing plant premises at Vill – Madandih, PO – Bortoria, PS – Neturia, Dist – Purulia, Pin – 723 121, West Bengal.

- 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 Level Environment Impact Assessment Authority, West Bengal.
- ix. The State Level Environment Impact Assessment Authority, West Bengal 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.
- 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 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.
- 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 Trans boundary Movement) Rules, 2009, 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

Speed Post

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Poura Bhawan, FD-415-A, Sector-III, Salt Lake, Kolkata – 700 106

e-mail: environmentwb@gmail.com

Web Portal: www.environmentwb.gov.in

No. 852 / EN / T – II – 1 / 037 / 2012

Date: 12th April, 2016

To
M/s Shakambhari Ispat & Power Ltd.
'Diamond Prestige' 41A, AJC Bose Road,
Room No. 801, 8th floor,
Kolkata – 700 017.

Sub: Amendment of environmental clearance for proposed expansion project of 1x8 MT & 2x15 MT Induction Furnace with caster 400 TPD Re-Rolling Mill 0.9 MTA Coal/Char Washery at Vill – Madandih, PO – Bortoria, Dist – Purulia by M/s. Shakambhari Ispat & Power Ltd.

Sir,

This is to inform you that SEIAA in its meeting held on 06.04.2016 considered the prayer for amendment of environmental clearance as follows:

- c) 1x25 MT Induction Furnace in place of 2x15 MT
- d) Enhancement of capacity of Rolling Mill from 400 TPD to 600 TPD without oil fired reheating furnace by directly charging the hot billets.

SEIAA decided that the project proponent should submit comparative statement of overall energy requirement of the process indicating the saving to be achieved through this modification with respect to oil and electricity.

You are required to submit above mentioned clarification at the earliest.

Yours sincerely,



(Sandipan Mukherjee, IFS)
Member Secretary, SEIAA

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
Poura Bhawan, FD-415-A, Sector-III, Salt Lake, Kolkata – 700 106
e-mail: environmentwb@gmail.com
Web Portal: www.environmentwb.gov.in

No. 1489 / EN / T – II – 1 / 037 / 2012

Date: 11th July, 2016

To
M/s Shakambhari Ispat & Power Ltd.
'Diamond Prestige' 41A, AJC Bose Road,
Room No. 801, 8th floor,
Kolkata – 700 017.

Sub: Amendment of environmental clearance vide no. EN/ 03 / T – II – 1 / 037 / 2012 dated 01.01.2013.

Ref: Your letter No. SIPL/NOC/16-17/001, dated 04.04.2016 &
letter No. SIPL/NOC/16-17/002, dated 26.01.2016.

Sir,


SEIAA considered the submission of the project proponent, noted the reduction in energy consumption to be achieved by the project proponent and decided to grant amendment of the Environmental Clearance for installation of 1x8 TPH & 1x25 TPH induction furnace along with 600 TPD hot rolling mill without installation of oil-fired reheating furnace.

The existing and revised proposed facilities after amendment are as follows:

Installation	Existing Capacity	Proposed Capacity
Induction furnace with Caster	2x12 MT (45,600 tonnes per annum)	1x8 TPH & 1x25 tonnes per hour
Sponge Iron	3x100 tonnes per day	-
CPP	1x12MW	-
Rolling Mill	-	600 tonnes per day

All other conditions in the environmental clearance would remain same.

Yours sincerely,


(Sandipan Mukherjee, IFS)
Member Secretary, SEIAA

No. 1489 / EN / T – II – 1 / 037 / 2012

Date: 11th July, 2016

Copy forwarded for information to:

The Secretary, State Level Expert Appraisal Committee, West Bengal Pollution Control Board,
'Paribesh Bhavan', LA, Salt Lake Sector III, Kolkata – 700 098.

Sd/-
(Sandipan Mukherjee, IFS)
Member Secretary, SEIAA