

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

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No. 1387 / EN / T-II-1 /069/ 2018

Date : 15 /10 / 2020

To
M/s Calstar Sponge Limited,
18, R.N. Mukherjee Road,
Kolkata – 700 001

SUB. : Environmental Clearance for the proposed expansion of existing Steel Plant by installation of Induction Furnaces (4X15T) and 1,00,000 TPA capacity Rolling Mill by M/s Calstar Sponge Limited at J.L. No. 58, Khatian No. 2461, Mouza-Bamunara, (Dag No. 4533, 4544 to 4563, 4566, 4569 to 4572), PS-Kanksa, Dist-Pachim Bardhaman, West Bengal..

Sir,

This has a reference to your application for Environmental Clearance (EC) hardcopy of which was submitted to SEIAA on 13.08.2018 and subsequent communications for the proposed expansion of existing Steel Plant by installation of Induction Furnaces (4X15T) and 1,00,000 TPA capacity Rolling Mill by **M/s Calstar Sponge Limited** at J.L. No. 58, Khatian No. 2461, Mouza-Bamunara, (Dag No. 4533, 4544 to 4563, 4566, 4569 to 4572), PS-Kanksa, Dist-Pachim Bardhaman, West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. This is a proposal for expansion of existing Steel Plant by installation of Induction Furnaces (4x15T) and 1,00,000 TPA capacity Rolling Mill.

Presently the project proponent is involved in production of Billets from 2x6 T induction furnaces and 33,600 TPA TMT Bars from Rolling Mill at Bamunara, P.O. Kanksa, Dist. Burdwan, West Bengal. Now, the project proponent has proposed to install 4x15 T capacity Induction furnaces with matching LFR & CCM and 0.1 MTPA Rolling Mill in the existing plant. The overall project details is given below :

Unit Description	Capacity (in TPA)	Product
EXISTING UNIT:		
Induction Furnace (2x6 T)	40,000 TPA	Billets
Rolling Mill	33,600 TPA	TMT Bar
PROPOSED UNIT:		
Induction Furnace (4x15 T) with matching LRF & CCM	1,80,000 TPA	Liquid Steel
	1,77,500 TPA	Billets
Rolling Mill	1,00,000 TPA	TMT Bar



Member Secretary, State Level Environmental Impact Assessment Authority

Proposed conditions for Environmental Clearance for the proposed expansion of existing Steel Plant by installation of Induction Furnaces (4x15T) and 1,00,000 TPA capacity Rolling Mill at J.L. No. 58, Khatian No. 2461, Mouza-Bamunara, (Dag No. 4533, 4544 to 4563, 4566, 4569 to 4572), Vill & Mouza – Bamunara, PS – Kanksa, Dist – Paschim Bardhaman, West Bengal by M/s. Calstar Sponge Limited.

Salient features of the proposed expansion project are:

Proposed Project	Proposed expansion of existing Plant by additional installation of 4x15 T Induction Furnaces along with 1,00,000 TPA capacity Rolling Mill.																								
Project Proponent	M/s. Calstar Sponge Limited																								
Project location	Village: Bamunara, Mauza: Bamunara, P.S: Kanksa, District: Paschim Bardhaman, West Bengal. The geographical co-ordinates of the project site are Latitude 23°30'04.52"N and Longitude 87°22'43.89"E with above mean sea level (AMSL) as 76 m.																								
Plant Features	<p>The existing as well as proposed units along with their capacities are presented below,</p> <p style="text-align: center;">EXISTING & PROPOSED UNITS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Unit Description</th> <th style="text-align: center;">Capacity (in TPA)</th> <th style="text-align: center;">Product</th> </tr> </thead> <tbody> <tr> <td colspan="3">EXISTING UNIT:</td> </tr> <tr> <td>Induction Furnace (2x6 T)</td> <td style="text-align: center;">40,000 TPA</td> <td style="text-align: center;">Billets</td> </tr> <tr> <td>Rolling Mill</td> <td style="text-align: center;">33,600 TPA</td> <td style="text-align: center;">TMT Bar</td> </tr> <tr> <td colspan="3">PROPOSED UNIT:</td> </tr> <tr> <td rowspan="2">Induction Furnace (4x15 T) with matching LRF & CCM</td> <td style="text-align: center;">1,80,000 TPA</td> <td style="text-align: center;">Liquid Steel</td> </tr> <tr> <td style="text-align: center;">1,77,500 TPA</td> <td style="text-align: center;">Billets</td> </tr> <tr> <td>Rolling Mill</td> <td style="text-align: center;">1,00,000 TPA</td> <td style="text-align: center;">TMT Bar</td> </tr> </tbody> </table>		Unit Description	Capacity (in TPA)	Product	EXISTING UNIT:			Induction Furnace (2x6 T)	40,000 TPA	Billets	Rolling Mill	33,600 TPA	TMT Bar	PROPOSED UNIT:			Induction Furnace (4x15 T) with matching LRF & CCM	1,80,000 TPA	Liquid Steel	1,77,500 TPA	Billets	Rolling Mill	1,00,000 TPA	TMT Bar
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Products	Proposed Production of 1,77,500 TPA Billets and 1,00,000 TPA TMT Bars.																								
Raw Materials	<p>The annual requirement of raw materials for 4x15 T Induction Furnaces, are presented below,</p> <ol style="list-style-type: none"> 1. Sponge Iron -1,50,000 TPA 2. Pig Iron -27,000 TPA 3. Scraps -27,000 TPA 4. Ferro Alloys -1,500 TPA 																								
Land	2.85 Hectares (7.05 acres)																								
Project Cost	Rs. 37 Crores																								
Make-up Water Consumption	Daily water requirement : 67.5 cu.m/day Source: Borewell.																								
Power Requirement	Requirement of power: 24.5 MW Source: Damodar Valley Corporation (DVC) Supply.																								
Manpower	About 150 nos. manpower.																								
Air Pollution & Control System	Bag filters, dust suppression system & Stack of adequate height at relevant point will be installed.																								
Solid Waste Management for Proposed project	<ul style="list-style-type: none"> • Slag from Induction Furnaces will be used for Land filling / Paver Block making. • Solid wastes from CCM (viz, scales) and rolling mill (end cuts and miss rolls) will be used in Induction Furnaces. 																								
Waste Water Management	<ul style="list-style-type: none"> ➤ Zero discharge. The entire waste water will be recycled for various purposes inside the plant. ➤ Domestic waste water will be treated in Septic tank–Soak pit system. 																								

Member Secretary, State Level Environmental Impact Assessment Authority

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Minimum amount of CER as per OM dated 01.05.2018 and OM dated 31.10.2019	[1% of Rs. 37.0 Crores] X 1.5= Rs.55.5 Lakhs
Exclusive Tree plantation area within the project area (33% of land area)	2.3 acres (0.93 hectares) of land (out of total 7.05 acres of land) within its existing project area.
No. of trees to be planted within the project area	1400 number of trees @1500 nos. of tree per hectare.

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 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 minimum height 30m from G.L. as proposed. 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 45 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 and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- iv. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.
- v. Regular monitoring of the air quality shall be carried out in and around the plant and records shall 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 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. Appropriate flow measuring device to be installed for monitoring volume of abstracted ground water and logbook to be maintained regularly.

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- viii. **Sponge iron and Pig iron should be used as major raw material in Induction Furnace (at least 80% 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. Rain Water Harvesting as proposed should be done in order to reduce abstraction of ground water. Recharging of ground water is not permitted.
- xi. 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. At least 33% of the land area should be covered by plantation. At least **1400** nos. of trees to be planted. Indicative list of species is given at Annexure-1. 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. Corporate Environment Responsibility (CER) Program to be formulated based on the results of socio economic survey on relevant parameters and need assessment of local people as per MoEF OM no. F.No.22-65/2017-IA.III dated: 1st May, 2018.
- xx. Implementation of such programme shall be ensured accordingly in a time bound manner.

B. GENERAL CONDITIONS:


1. The environmental clearance accorded shall be valid for a period of 7 years for the proposed expansion project.
2. During construction phase, air pollution and solid waste management aspects need to be properly addressed ensuring compliance of the Construction and Demolition Waste Management Rules, 2016.
3. 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.



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4. 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.
5. 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.
6. 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.
7. 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.
8. No further expansion or modifications in the plant should be carried out without prior approval of the State Environmental 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.
9. The West Bengal Pollution Control Board as well as the Regional Office of MoEF&CC, Bhubaneswar, 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.
10. The State Environmental 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.
11. 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 West Bengal Pollution Control Board and may also be seen at Website of the SEIAA, West Bengal (<http://environmentwb.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.
12. 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.
13. 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 and Other Wastes (Management and Transboundary Movement) Rules, 2016, Solid Waste Management Rules, 2016, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.



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C. Additional Conditions as per O.M. of MoEF&CC vide F. No. 22-23/2018-IA.III (Pt) dated 31.10.2019 and F. No. 22-23/2018-IA.III dated 30.12.2019.

- i. The industry shall meet stack emission standard of 45 mg/Nm³.
- ii. Water sprinklers at strategic locations to be installed for controlling fugitive emission from different sources.
- iii. The industry shall take up additional plantation of 350 trees in area adjacent to the project area in consultation with concerned D.F.O. This will be in addition to 1400 trees as given in Annexure-1.
- iv. STP of adequate capacity for domestic waste water to be installed as proposed.
- v. Slag to be used for land filling and road construction.
- vi. Monitoring of compliance of EC conditions shall be submitted with third party audit every year.
- vii. The minimum amount of CER shall be 1.5 x Rs.37 lakhs = Rs.55.5 lakhs.

The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Shri Vikas Agarwal, Director
Address	18, R.N. Mukherjee Road, Kolkata - 700001
Email	avranil.calspring@gmail.com
Telephone Number; Fax Number	Tel: 22109542/9543; Fax : 22486987
Name of the Environmental Consultant	Envirotech East Pvt. Ltd.

Yours sincerely,

Sd/-

(Niraj Singhal, IFS)
Chief Environment Officer &
Member Secretary, SEIAA

No. 1387 /I(5) / EN / T-II-1 /069/ 2018

Date : 15 /10 / 2020

Copy forwarded to :-

1. Secretary, SEAC & M.S. WBPCB.
2. Officer-in-Charge, Regional Office (Eastern Zone), Ministry of Environment & Forests, Government of India, A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
3. Chief Inspector of Factories, Factories Directorate, New Secretariat Building, 8th Floor, 1, Kiran Shankar Roy Road, Kolkata – 700 001.
4. The Divisional Forest Office, Shastri Ave, AranyaPally, Durgapur, West Bengal 713212.
5. Guard file / Record file.

Chief Environment Officer &
Member Secretary, SEIAA

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Annexure –1

A. LIST OF TREES FOR PLANTATION WITHIN THE PROJECT AREA

Sl. No.	BOTANICAL NAME	COMMON NAME	QUANTITY
1.	<i>Butea monosperma</i>	Palash	128
2.	<i>Ficus religiosa</i>	Aswatha	25
3.	<i>Cassia fistula</i>	Amaltas	195
4.	<i>Azadiracta indica</i>	Neem	158
5.	<i>Acacia nilotica</i>	Babla	100
6.	<i>Mahua longifolia</i>	Mahua	140
7.	<i>Alstonia scholaris</i>	Chatim	110
8.	<i>Tamarindus indica</i>	Tentul	100
9.	<i>Neolamarckia cadamba</i>	Kadam	140
10.	<i>Bauhinia variegata</i>	Kanchan	130
11.	<i>Polyalthia longifolia</i>	Devdaru	174
Total			1400

B. NUMBER OF TREES FOR PLANTATION OUTSIDE THE PROJECT AREA – 350

C. TOTAL – 1400 + 350 = 1750



 Member Secretary, State Level Environmental Impact Assessment Authority