

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

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No. 712 /EN/T-II-1/090/2014

Date : 28 / 03 /2016

To
M/s. Alaknanda Sponge Iron Ltd.
P.S. Kanksa, Mouza - Bamunara, Vill. - Gopalpur
Dist. Burdwan, Durgapur - 713 212

SUB. : Environmental Clearance for the proposed expansion project for installation of Induction Furnaces by M/s. Alaknanda Sponge Iron Ltd. at Banskopa More, Vill. & Mouza - Gopalpur, PO - Bamunara, PS - Kanksa, SD - Durgapur, Dist. - Burdwan, Pin - 713212, West Bengal

Sir,

This has a reference to your application dated 03/11/2014 and subsequent communications for environmental clearance for the proposed expansion project for installation of Induction Furnaces by M/s. Alaknanda Sponge Iron Ltd. at Banskopa More, Vill. & Mouza - Gopalpur, PO - Bamunara, PS - Kanksa, SD - Durgapur, Dist. - Burdwan, Pin - 713212, West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. It is noted that the proposed proposal is an expansion proposal for installation of Induction Furnace 2x15T for manufacturing MS billets (84600TPA) by replacing existing 1x9 T induction furnace at the existing plant. The existing and the proposed facilities are as follows :

Installations	Existing Capacity	Proposed Capacity
Induction Furnace	1x9T (to be replaced)	2x15T
CCM	3x6 Mtr strand (to be replaced)	4x7 Mtr strand
Rolling Mill	90000 TPA	-----
Producer gas plant	8000 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 - Vill & Mouza - Gopalpur, P.O- Bamunara, PS - Kanksa, SD - Durgapur, Dist. - Burdwan, West Bengal, Pin - 713 212.
- ii. Latitude & Longitude: 23°30'02"N & 87°22'20"E
- iii. Land Area - 7.13 acres, within the existing plant. Green belt- 2.35 acres
- iv. No. of trees to be planted : 700 nos.
- v. Raw Materials - Sponge Iron (62460 TPA), Pig Iron/Scrap (41040 TPA), Ferro Alloys (648 TPA).
- vi. Production Capacity - MS billets-84600 TPA.
- vii. Air Pollution Control Device - Induction furnace 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 GL.
- viii. Total Water Requirement - 80 KLD (Make up water-70 KLD, Domestic water-5 KLD, Green belt & dust suppression-5 KLD). Source-groundwater & rain water harvesting
- ix. Effluent - Process: nil, Domestic : to be discharged through septic tank to soak pit.

- x. Solid Waste – slag will be crushed for recovery of metal & used for road construction, land filling etc.
- xi. Total Power Requirement – 12 MW, DVC.
- xii. Solar Power - At least 2 KW of solar power to be generated and utilized.
- xiii. Back-up Power – DG Sets (1x400KVA)

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. 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 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. 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. As proposed, CBM shall be used as fuel for existing rolling mill instead of producer gas.
- 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, rain water harvested storage capacity of 8000 KL to be provided and used to reduce ground water withdrawal. Recharging of ground water is not permitted.
- xi. Process effluent discharge is not permitted. Cooling water should be recycled.
- xii. All the commitments made to the public during Public Hearing/public consultation meeting shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- 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

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- 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 and around the plant as per proposal submitted. At least 33% of the land area should be covered by plantation consisting of 700 nos. of plants. 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.
 - 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.
 - 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. At least 2 KW of solar power to be generated and utilized.
 - xix. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
 - xx. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
 - xxi. 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 7 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.
- 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

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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://environmentwb.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 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	Mr. Vishal Saraogi, Director
Address	M/s. Alakananda Sponge Iron Ltd. P.S. Kanksa, Mouza – Bamunara, Vill. – Gopalpur Dist. Burdwan, Durgapur – 713 212
Email	alakanandagroup@gmail.com
Telephone Number, Fax Number	Phone no. 033 2213 8840
Name of the Consultant	M/s. Pacific Scientific Consultancy Pvt. Ltd.

(S. Mukherjee, IFS)
Chief Environment Officer &
Member Secretary, SEIAA

No. 712 /EN/T-41-1/090/2014/1(4)

Date : 28 / 03 /2016

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, Chandrasekharpur, Bhubaneswar – 751 023, Orissa.
3. Chief Inspector of Factories, Factories Directorate, 1, K. S. Roy Road, Kolkata – 700 001.
4. Copy 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>Polyalthia longifolia</i>	Debdaru	100
2.	<i>Peltophorum pterocarpum</i>	Radhachura	50
3.	<i>Terminalia arjuna</i>	Arjun	50
4.	<i>Alstonia scholaris</i>	Chhatim	100
5.	<i>Ficus benghalensis</i>	Bot	5
6.	<i>Ficus religiosa</i>	Ashwatha	10
7.	<i>Azadirachta indica</i>	Neem	45
8.	<i>Acacia auriculiformis</i>	Akashmoni	100
9.	<i>Mangifera indica</i>	Mango	25
10.	<i>Thespesia populnea</i>	Pakur	50
11.	<i>Dalbergia sissoo</i>	Sissoo	50
12.	<i>Albizia lebbek</i>	Shirish	10
13.	<i>Lagerstroemia speciosa</i>	Jarul	50
14.	<i>Millettia pinnata</i>	Karanj	50
15.	<i>Syzygium cumini</i>	Jamun	5
		Total	700

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