

F. No. J-11011/280/2012-IA II (I)
Government of India
Ministry of Environment, Forests and Climate Change

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Dated: 5th February, 2015

To

M/s N.N. Ispat Pvt. Ltd.
25 Ganesh Chandra Avenue
4th Floor, Kolkatta
West Bengal-700013

Email: dineshadukia@aicsteel.in; Fax: 033-22114567

Subject: Proposed Expansion of Induction Furnace and Installation of Ferro Alloys Plant, Foundry & Rolling Mill of M/s N.N. Ispat, in the existing Plant Area at vill. Diwandighi, P.O. & Mouza, Mirzapur, Palitpur Road, P.S. & Dist. Burdwan, West Bengal (EC)[F. No. 11011/280/2012-IA-II(I)]

Sir,

This has reference to your letter dated 5th May, 2014 along with copies of EIA/EMP report seeking environment clearance under the provisions of the EIA Notification, 2006. The ToR was awarded by MoEF vide letter no. dated 1st March, 2013 for preparation of EIA/EMP report.

2. The Ministry of Environment, Forest and Climate Change has examined the application for the project cited above. It is noted that M/s N.N. Ispat Pvt. Ltd has proposed for expansion of induction furnace and installation of Ferro Alloys Plant, Foundry & Rolling Mill in their existing plant area at village Diwandighi, P.O. & Mouza-Mirzapur, Palitpur Road, P.S. & District-Burdwan in West Bengal. Total existing plant area is 10.05 acres and expansion will be done on the land of about 6.95 acres. No forest land is involved. No court case/ litigation is pending against the project. The geographical co-ordinates of the project site are latitude 23°17'18.43"N and longitude 87°52'20.17"E with mean sea level (MSL) 110 ft. NH-2 is passing at around 5.0 km site in south direction w.r.t the Project Site. River Damodar flows at a distance of 8.5km south from the project site. Manpower requirement is 140. Capital cost of the project is Rs 58 crores.

3. Ramnabagan Wildlife Sanctuary is located at a distance of 4.0 Km to the south direction of the project site. PP has submitted an application dated 29.07.2013 to PCCF, Wildlife, Govt. Of West Bengal for clearance under the Wildlife (Protection) Act, 1972, from the Standing Committee of the National Board for Wildlife as the project is located within 10 Km distance of Ramnabagan Wildlife Sanctuary.

4. Following are the existing and proposed units:



| S.N. | Unit | Unit Capacity | Product |
|-------------------------|---|------------------------------|--|
| Existing Project | | | |
| 1 | Induction Furnace (2 x 8T) | 48,000 TPA | Ingot |
| Proposed Project | | | |
| 1 | Induction Furnace (2 x 15 T) | 90,000 TPA | Liq. steel |
| 2 | LRF | 90,000 TPA | Liq. steel |
| 3 | Continuous Casting Machine | 90,000 TPA | Billets |
| 4 | Rolling Mill | 1,20,000 TPA | Structural Steels (Angels, Channels, TMT etc.) |
| 5 | Ferro Alloy Plants (2 x 9 MVA Submerged Arc Furnaces) | Ferro Manganese-20,460 TPA | |
| | | Silico Manganese -14,850 TPA | |
| | | Ferro Silicon-6,600 TPA | |
| 6 | Foundry Consisting of Cupola Furnace (2 x 5 T) | 21,5000 TPA | Cast Iron |
| 7 | Induction Furnace | 18,000 TPA | Ductile Iron |
| 8 | Green Sand Plant (2 x 20 TPH) | 72,000 TPA | Mould |
| 9 | Sand Reclamation Plant (2 x 10 TPH) | 80,000 TPA | Fresh Sand |

The existing unit is operating with a CTE dated 30.11.2004 and a CTO dated 13.02.2012 from WBPCB.

5. Raw Material requirement is as per details given below:

| RAW MATERIALS | QUANTITY (IN TPA) | SOURCE |
|--|-------------------|------------------------|
| Induction Furnace (2x15 T) – 90,000 TPA | | |
| Sponge Iron | 75,600 | Local Market |
| Pig Iron | 13,200 | Local Market |
| Scrap | 10,360 | Local Market |
| Ferro Alloys | 622 | Local Market |
| Ferro Alloys Plant (2x9 MVA) | | |
| Manganese Ore | 60,300 | Orissa |
| Mill Scale/Scrap | 5250 | Local Market /In-House |
| Quartzite | 17,600 | Local Market |
| Dolomite | 410 | Local Market |
| Coke Breeze | 28250 | Local Market |
| CUPOLA FURNACE (2X5 T) – 21,500 TPA CAST IRON | | |
| Pig Iron | 15050 | Local Market |
| Scrap | 6450 | Local Market |
| Hard Coke | 3800 | Local Market |
| Limestone | 1075 | Local Market |
| INDUCTION FURNACE (2X3 MT)– 18,000 TPA DUCTILE IRON | | |
| Pig Iron | 9000 | Local Market |
| Scrap | 9000 | Local Market |
| Silico Manganese | 275 | In-House |
| Green Sand Plant (2x20 TPH)/Sand Reclamation Plant (2x10 TPH) | | |

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| | | |
|-----------|-----|-----------------|
| New sand | 720 | Allahabad/Local |
| Bentonite | 216 | Rajasthan |
| Coal Dust | 360 | Chhattisgarh |

6. The plant will be designed as a zero discharge plant as far as the process effluents are concerned. The water will be re-circulated through cooling and treatment. The entire waste water will be recycled for various purposes inside the plant. Domestic wastewater will be treated in Septic tank-Soak pit system. Slag from IF & Cupola Furnace will be used for land filling / road construction. Slag from Ferro-Manganese process will be used as raw material in the production of Silico Manganese. Slag from Silico Manganese process will be used for land filling / Road Construction purpose. Mill scale and Scraps from the Rolling Mill as well as End Cuts & Scales from Continuous Casting will be used as raw materials in Induction Furnaces. Adequate air pollution control measures such as bagfilter, dust suppression system & stack of adequate height at relevant point will be installed.

7. Details of Solid wastes generation and utilisation

| S.N. | Type | Quantity (Tonnes/Year) | | Utilisation |
|------|--|---------------------------|-------------------------------|--|
| | | Existing | Proposed | |
| 1. | Slag from Induction Furnace | 5000 | 8200 | To be used for land filling and road construction after segregation of residual slag by Slag Crusher installed in the existing Plant |
| 2. | End Cuts, Scale & Scarap from CCM | - | 1500 | To be used in IF |
| 3. | End Cuts, Scale & Scarap from Rolling Mill | - | 3000 | To be used in IF |
| 4. | Slag from Ferro Alloy Plant | - | Ferro-Manganese Slag - 20,000 | To be used as raw material for silico Manganese Production/for land filling and for road construction. |
| | | | Silico Manganese Slag -15,000 | To be used for land filling and road construction. |

8. Slag of IF & cupola furnace will be used for landfilling /road construction. Slag from Ferro-Maganese process will be used for production of silico manganese. Mill scale and scraps from rolling mill as well as end cuts and scales from continuous casting will be used as raw materials in induction furnaces. Total power requirement will be 37 MW and sourced from DVC supply system.

9. Fresh water requirement from ground water source will be 81m³/day. Daily Make up Water requirement is 71 kld. Water Source will be borewell (permission has been obtained from SWID).

10. All the steel plants are listed at S.No. 3(a) in primary metallurgical industry under Category 'A' of the Schedule of EIA notification 2006 and appraised by the Expert Appraisal Committee (Industry-1) of MoEF.

11. The aforesaid proposal was considered in the Reconstituted Expert Appraisal Committee (Industry) in its 23rd meeting held during 18th – 19th September, 2014. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public Hearing was conducted on 10th March 2014,

12. Based on the information submitted by you, presentation made by you and your consultant M/s Envirotech East Pvt. Ltd, Kolkatta, the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance of the following Specific and general conditions:

A. SPECIFIC CONDITION:

- i. The proponent shall obtain prior Wildlife clearance for expansion of the project. In case the project is located outside the ESA, a Notification of ESZ Ramnabagan Wild life Sanctuary of the State Government and a map with minimum distance of the project site from the boundary of ESZ authenticated by PCCF(WL) shall be furnished.
- ii. Measures shall be taken to reduce PM levels in the ambient air. Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission levels below 50mg/Nm³ and installing energy efficient technologies in the Plant.
- iii. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.
- iv. Dust suppression system and bag filters shall be installed to control the fugitive dust emissions at conveyor and transfer points, product handling, loading and unloading points.
- v. Water consumption shall not exceed as per the CREP standard prescribed for the steel plants. Additional water, if any, required for the plant project operations shall be met from rainwater stored in rainwater harvesting structures.
- vi. Rainwater harvesting scheme shall be prepared so that the rainwater can be collected, re-used and may be used for ground water recharge. The concrete drains shall be de-silted and regular supervision of the areas shall be carried out so that blocking of drains may be avoided for quick discharge of rainwater. Efforts shall further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement.
- vii. Greenbelt of approximately 15-20 meter width consisting of a 3-tier of trees consisting of species with thick canopy shall be developed all along the periphery of the plant, roads, vacant spaces, transfer points, etc as part of 33% of total plant area.
- viii. All the effluents shall be treated and reused for dust suppression/green belt development. No effluent shall be discharged and 'zero' discharge shall be adopted.
- ix. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash shall be provided to cement

Signature

- and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office at Bhubaneswar.
- x. Hazardous materials required during construction phase and in plant operations shall be stored properly as per the regulations and reused/recycled as per the E(P)A Rules.
 - xi. Vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.
 - xii. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and implemented.
 - xiii. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.
 - xiv. All the commitments made to the public during public hearing/public consultation shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
 - xv. All the permanent workers shall be covered under ESI Scheme. The company shall have the provision for treatment of its workers at the local Nursing Homes & Hospitals in case of emergency. Annual Medical Check-up on some medical parameters like Blood test, Chest X-Ray, Eye test, Audiometry, Spirometry etc. shall be conducted amongst the employees of the Company and records thereof maintained.
 - xvi. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs. The proponent shall prepare a detailed CSR Plan for every next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO, at Bhubaneswar. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- iii. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM₁₀, PM_{2.5}, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.



- iv. Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.
- v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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 dBA (daytime) and 70 dBA (nighttime).
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- ix. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forests and Climate Change (MoEF&CC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.
- x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- xi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF&CC at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF&CC, the respective Zonal Office of CPCB and the SPCB. The Regional



Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.

- xiii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF&CC at Bhubaneswar by e-mail.
- xiv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at <http://envfor.nic.in>. This shall 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 and a copy of the same should be forwarded to the Regional office at Bhubaneswar.
- xv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
13. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
14. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
15. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Amardeep Raju)
Scientist 'C'

Copy to:-

1. The Secretary, Department of Environment, Govt. of West Bengal
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. *The Chairman, West Bengal Pollution Control Board, Paribesh Bhawan, Bldg. No. 10-A, Block- LA, Sector 3, Salt Lake City, Kolkata - 700 091*
4. *The Additional Principal Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment, Forests and Climate Change (MoEF&CC), A/3, Chandesekharpur, Bhubaneswar - 751023.*
5. Guard File / Record File/Monitoring file.


(Amardeep Raju)
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