

F. No. J-11011/258/2012-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Jor Bagh Road, Aliganj,
New Delhi – 110003
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Tel.: 011-24695316
Dated: 26th August, 2015
27th

To

Director,
M/s BRGD Ingot Pvt. Ltd.,
4, D L Khan Road, Block-C Flat No. 201,
2nd Floor, PS Kalighat, PO Bhowanipur,
Kolkatta-700025.

Subject: Expansion of Steel Melting Shop Unit (from 50,400 TPA to 90,000 TPA) of M/s BRGD Ingot Pvt. Ltd. at village Palitpur, Mouza & P.O Mirzapur, Dist Burdwan, West Bengal- Environmental Clearance (EC)-regarding.

Sir,

This has reference to your letter No. Nil dated 12th April, 2014 along with EIA/EMP report and Public Hearing and other documents and subsequent letters dated 29.07.2014 and 11.09.2014 seeking environmental clearance under the provisions of the EIA Notification, 2006 regarding the project mentioned above. It has been noted that the said project was prescribed ToRs by the MoEFCC vide letter of even number dated 1st March, 2013. 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).

2.0 It is noted that M/s BRGD Ingot Pvt. Ltd. has proposed for expansion of Steel Melting Shop Unit in the existing Steel Plant at Village Palitpur, District Burdwan, West Bengal. The proposal is for manufacturing of M.S. Ingot with an annual capacity of 90, 000 MT. The existing Induction Furnace is (2 x 7 T) (50,400 TPA) and the proposed Induction Furnace unit is (1x10 T + 1x15 T) (90,000 TPA) with Ladle Refining Furnace & Continuous Casting Machine. Two induction furnaces of capacity 1x 10 T & 1x 15 T with matching LRF & CCM (90,000 TPA Billet) would be installed in order to act simultaneously at the melting unit in the steel melting shop. Ingots from the existing as well as from the proposed expansion will be utilised in company's own plant – M/s SUL Steel Pvt, Ltd. at Paharpur, 24 Parganas (S), West Bengal. The existing and proposed units along with their capacities are as under:

Sl. No.	Unit	Existing Capacity	Proposed Capacity	Product
1.	2x7 Tonne Induction Furnaces	50,400 TPA	-	Ingot
2.	1x10 & 1x15 Tonne Induction Furnaces with matching Ladle Refining Furnace & Continuous Casting Machine	-	90,000 TPA	Billet

3.0 The project is located at Palitpur, Mouza & P.O Mirzapur, P.S & District Burdwan, West Bengal. The geographical co-ordinates of the project site are 23°17'15.02"N latitude and 87°51'44.15"E longitude with mean sea level (MSL) as 110 ft. Nearest Town is Burdwan (District H.Q) - 5.0 km from the project site. Nearest Railway Station is Burdwan Railway Station which is 4.3 km from the project site. Total plant area is 5.83 acres. Project cost is Rs. 1500 Lakhs. No forest land is involved. No court case/ litigation is pending against the project. Ramnabagan

Wildlife Sanctuary is located at a distance of 3.6 Km to the south –west direction of the project. River Damodar is flowing at a distance of 7.5 Km. Existing project is operating with a CTO from WBPCB, which has been renewed on 21.04.2014.

4.0 The aforesaid proposal was considered by the Reconstituted Expert Appraisal Committee (Industry) EAC (i) in its 23rd meeting held on 18th -19th September, 2014. The project proponent gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken along with the draft Term of References for the preparation of EIA-EMP. EIA-EMP Report has been prepared by Envirotech East Pvt. Ltd., Kolkatta. Baseline data has been collected during March-May 2013. AAQ monitoring carried out at 8 locations indicate that the levels of PM₁₀ (44-106µg/m³), PM_{2.5} (16-46 µg /m³), SO₂ (4-15 µg /m³) and NO_x (6-29 µg g/m³) are generally (except for PM₁₀ at one location) within prescribed limits. AQIP Modelling indicates that GLC of PM₁₀, SO₂ and NO_x will be 1.08 µg /m³, 4.92 µg /m³ and 2.46 µg /m³ respectively.

5.0 Bagfilter will be provided to induction furnace and raw material handling area to keep control particulate emissions within 50mg/Nm³. Dust from the bag filter would be used for filling up and development of plantation on the mound. Fugitive dust emissions from areas such as raw materials stockpile, loading/unloading systems, conveyor systems will be arrested by Dry Fogging System. Slag from induction furnace will be used for land filling, road construction, after removal of residual iron by slag crusher. Adequate control measures like bag filters, dust suppression system & Stack of adequate height at relevant point will be installed.

6.0 Raw materials such as sponge iron, pig iron, scrap and ferro alloys would be obtained from local market. Stockpiles of raw material will be stored in areas which have suitable limners to prevent leaching of metals. Induction Furnace slag (6500TPA) will be used as land filling / road construction purpose. End cuts from CCM (2200 TPA) will be used in IF.

7.0 Total water requirement will be 102m³/day using groundwater. Permission has been obtained from State Water Investigation Department (SWID). There will be no discharge of Industrial Effluent (zero discharge plant). The entire wastewater will be recycled for various purposes inside the plant. Domestic wastewater will be treated in Septic tank–Soak pit system. In regard to rain water harvesting, it is stated that 60% run off may be allowed to be drained through natural drainage system. For its sustenance and remaining 40% may be harvested and stored suitably. Around 0.0042 mcm (4240 cu.m) of water therefore can be conserved within the proposed plant. Considering the average depth of 2.5 m in storage tanks, area for surface storage involves around 0.1696 ha (0.419 acres) which is 7.0% of the project area. The daily make up water requirement for the proposed project is 102 kld. Thus, on an average around 42 days daily make up water requirement for the proposed project will be fulfilled by the harvested rain water.

8.0 The total power requirement will be 10 MVA and sourced from DVC supply system. DG set (180 KVA) will be installed.

9.0 The Public Hearing was held on 27th February, 2014 at the Meeting Hall of Burdwan-I Panchayat Samity, District Burdwan in West Bengal. Issues raised include air pollution from the project activities, skill development through training, utilisation of slag for road construction, local area development of community infrastructure, etc.

10.0 The Ramnabagan Wild life Sanctuary is approximately 3.6 KM from the project boundary. An application dated 11.07.2013 has been made by PP to PCCF Wildlife, State Govt., for obtaining clearance from the NBWL.

11.0 The Committee after deliberations recommended the project for environmental clearance subject to stipulation of the following conditions and other additional safeguards and measures:

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12.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry) and hereby decided to grant Environmental Clearance to the above mentioned Expansion of Steel Melting Shop Unit (from 50,400 TPA to 90,000 TPA) of M/s BRGD Ingot Pvt. Ltd. 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 project proponent should install 24x7 air and water monitoring devices to monitor air emission and effluent discharge, as provided by CPCB and submit report to Ministry and its Regional Office.
- ii. Prior clearance from the Standing Committee of the National Board for Wildlife shall be obtained due to location of the plant in the buffer zone of Ramnabagan Wildlife Sanctuary, before commencing any expansion activity relating to the project at site. All the conditions stipulated by the Standing Committee shall be effectively implemented in the project. It shall be noted that this clearance does not necessarily implies that wildlife clearance shall be granted to the project and that your proposal for wildlife clearance shall be considered by the competent authorities on its merit and decision taken. The investment made in the project, if any based on environmental clearance granted to the project, in anticipation of the clearance from wildlife clearance shall be entirely at the cost and risk of the project proponent and Ministry of Environment, Forest and Climate Change shall not be responsible in this regard, in any manner.
- iii. 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.
- iv. 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.
- v. 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.
- vi. 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.
- vii. 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.
- viii. 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.



- ix. 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.
- x. 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 and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office at Bhubaneswar.
- xi. 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.
- xii. Vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.
- xiii. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and implemented.
- xiv. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.
- xv. All the commitments made to the public during public hearing/public consultation shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xvi. 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.
- xvii. 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, Forest and Climate Change (MoEFCC).
- 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, Forest and Climate Change (MoEFCC) 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 MoEFCC 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 MoEFCC, 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

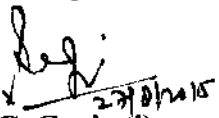
Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEFCC at Bhubaneswar by 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, Forest and Climate Change (MoEFCC) 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.

12.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

13.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

14.0 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.


(Dr. Satish C. Garkoti)
Scientist 'F'

Copy to:-

1. The Secretary, Department of Environment, Government 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 State Pollution Control Board, Parivesh Bhawan, Bldg. No. 10-A, Block- LA, Sector 3, Salt Lake City, Kolkata – 700 091
4. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar-751023. Odisha.
5. The CWLW, West Bengal.
6. The Inspector General of Forest (WL), Ministry of Environment, Forest and Climate Change, Indira Paryavan Bhavan, Jor Bagh Road, Aliganj, New Delhi.
7. Guard File / Record File/Monitoring file.


(Dr. Satish C. Garkoti)
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