

F. No. J-11011/398/2011-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Jor-Bagh Road, Ali Ganj,
New Delhi - 110003

E-mail: satish.garkoti@nic.in
Tele ph.: 011: 24695316

Dated: 8th April, 2015

To
M/s Bhawani Castings Pvt. Ltd.
Village Ambay Majra, Mandi Gobindgarh,
District- Fateahgarh Sahib,
Punjab-147301

Email: sital.cptlmohani@yahoo.co.in; Fax No.- 0172-4669295

Subject: Expansion of Steel Manufacturing Unit of M/s Bhawani Castings Pvt. Ltd.
located at vill. Ambey Majra, Mandi Gobindgarh, Fatehgarh Sahib, Punjab –
Environmental Clearance - regarding

Sir,

This has reference to your letter no. 'Nil' dated 26.03.2014 along with copies of EIA/EMP report seeking environment clearance under the provisions of the EIA Notification, 2006 and subsequent letter dated 29/11/2014 on the project mentioned above. The TOR was awarded by MoEFCC vide F.No. J-11011/398/2011-IA.II(I) dated 9.9.2011 for preparation of EIA-EMP report. The Unit falls in Category B as per schedule; but being situated within 10 km of the Critically Polluted Area of Mandigobindgarh, the proposal is considered in the Ministry of Environment, Forest and Climate Change.

2.0 M/s Bhawani Castings Pvt. Ltd. is a Steel manufacturing Unit which is already manufacturing 36000MTA Steel Ingots at Village Ambey Majra, Tehsil- Mandi Gobindgarh, Distt-Fatehgarh Sahib, Punjab. The Industry now proposes to enhance the capacity of the unit by addition of Two no. Induction furnaces of capacities 10TPH & 7TPH each. It also proposes to install 1 no. rolling mill for manufacturing structural steel section like TMT Bars & flats etc. The capacity of the unit after expansion will be 72,000 MTA Steel Ingots & 72,000 MTA TMT bars, flats. The total area of the plot is 5 acre. There are no Wild Life Sanctuaries, Reserved /Protected Forests or Defence Installations, Rivers and Hill Ranges within 10 km of the project. It is about 5 kms from Mandi Gobindgarh and

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about 50 km from Chandigarh. Total cost of the Project is 12 crores and 52 lakhs have been provided for pollution control Measures. About 4 lakhs will be spent on annual maintenance of such measures.

3.0 The raw materials used are MS/CI Scrap, Sponge/Pig Iron, Silico Manganese. These will be sourced from Domestic as well as International Markets. The raw materials used in the manufacturing of structural sections is Steel Ingots and Billets which will be sourced from own unit.

4.0 The water requirement for domestic purpose will be 10 KLD and for cooling purpose will be 25 KLD. There is no use of water in the process. So the total water requirement will be 35 KLD. The total power demand for the unit after expansion shall be about 8380 MW. This demand will be met by sourcing power from Punjab State Power Corporation Limited from the nearby Sub-station. There will be about 70 persons working in the unit. The unit is situated in the critically Polluted area of Mandi Gobindgarh.


5.0 About 240 Ton/annum slag received from the manufacturing process shall be given to cement plant for further use. There is no process of waste water. Domestic waste water shall be treated through S.T.P. and the same will be used within the premises for plantation. In addition to the existing plantation, it is proposed to plant 100 no. of long leaved, low maintenance and moderate to fast growing species based on agro-climatic zones specified by PAU, Ludhiana along the boundary of unit.

6.0 Solid/hazardous wastes in the unit are expected from slag from the furnaces, solids from the Bag filters & Cyclones and sludge from S.T.P. Solids from Bag filters contain traces of metals in addition to dust etc. as such these will be collected separately in a dumping pit and sent to TSDF site for disposal. Slag from the furnace (about 23.5 Ton per day) received from the manufacturing process shall be used for filling of low lying area or for road making. STP sludge will be used within the premises as manure for plantation.

7.0 Ambient air quality monitoring has been carried out at 8 locations during December 2011 - February 2012 and the data submitted indicated: PM_{10} ($76.9\mu g/m^3$ to $96.8\mu g/m^3$), $PM_{2.5}$ (30.1 to $47.3\mu g/m^3$), SO_2 (11.5 to $18.5\mu g/m^3$) and NO_x (24.0 to $30.8\mu g/m^3$). For Air Pollution Control, Cyclones & Bag filters have been provided on Induction furnace and Scrubber on rolling mills. There will be generation of emission containing SPM. All the processes are closed circuit; as such emission to the atmosphere will be minimal. However, APCD, cyclone, bag filters will be provided at the exit point to arrest particulate matters.

8.0 Public Hearing of the project was conducted by PPCB at site on 23.10.2012 under the Chairmanship of Shri Praveen Kumar Thind, IAS, Additional Deputy Commissioner, Fatchgarh Sahib. Major issues raised during the public hearing are road in the village in very bad shape and the same should be got repaired immediately, residents of the area will get employment from the expansion plan of the industrial plant.

9.0 It was stated that CTO was granted on 23.05.2013 and renewed for 3 years. The Committee noted that the greenbelt development is very poor and details of green belt development should be furnished along with photographs as part of compliance report submitted on EC.


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10.0 The Committee after detailed deliberations recommended the project for environmental clearance subject to stipulation of the following specific conditions and any other mitigative measures and conditions for environmental protection.

11.0 The Ministry of Environment, Forest and Climate Change, on the basis of the aforesaid recommendations of the EAC(I), hereby grants environmental clearance to the aforesaid project of M/s Bhawani Castings Pvt. Ltd. under the provisions of the EIA Notification 2006 with the following conditions:

A. SPECIFIC CONDITION:

- i. The project proponent should install 24X7 air and water monitoring devices to monitor the air emission and affluent discharge, as provided by Central Pollution Control Board (CPCB) and submit report to Ministry and its Regional Office.
- ii. Compliance report for CTO issued by PPCB shall be submitted to the Ministry and to the RO at Chandigarh.
- 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 within prescribed standards and installing energy efficient technologies.
- iv. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled as per G.S.R. 612 (E) dated 25.08.2014. Guidelines/Code of Practice issued by the CPCB shall be followed.
- v. Efforts shall further be made to use rainwater from the rain water harvesting sources. Capacity of the reservoir shall be enhanced, if required, to meet the maximum water requirement. The Plant shall operate on a zero discharge concept.
- vi. The wastewater generated shall be fully treated in an ETP and reused for plantation/greenbelt development. The Plant will operate on a zero discharge concept.
- vii. Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.
- viii. 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 Bottom ash shall be fully

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utilized for road construction. Details of Memorandum of Understanding entered shall be submitted to the Ministry's Regional Office at Chandigarh.

- ix. Hazardous materials such as lubricating oil, compressed gases, paints and varnishes required during construction phase shall be stored properly as per the regulations at isolated places and used/recycled as per the E(P)A Rules, 1986.
- x. All vehicles and construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet prescribed standards.
- xi. Green belt consisting of a 3-tier plantation of trees with thick canopy shall be developed all along the periphery of the plant, vacant areas, transfer points, etc., as part of 33% of total plant area.
- xii. Noise level shall be reduced by stopping leakages from various steam lines, compressed air lines and other high pressure equipment; and provide noise proof cabins to operators where remote control for operating noise generating equipment is feasible.
- xiii. Disaster management plan shall be prepared and implemented. Regular drills thereof shall be conducted.
- 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. Company shall develop an HSE Policy. 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 maintained thereof.
- xvi. At least 2.5 % 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, Bangalore. 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 Punjab 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 Chandigarh and the SPCB/CPCB once in six months.
- iv. Industrial wastewater 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 wastewater 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 Chandigarh. The funds so provided shall not be diverted for any other purpose.

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

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

14. 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.

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08/04/2015

(Dr. Satish C. Garkoti)
Director

Copy to:-

1. The Secretary, Department of Environment, Govt. of Punjab.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, Punjab State Pollution Control Board, Vatavaran Bhavan, Nabha Road, Patiala-147001.
4. The Additional Principal Chief Conservator of Forests (C) Ministry of Env. And Forests Regional Office (NZ) Bays No. 24-25, Sector-31 A, Dakshin Marg, Chandigarh-160030.
5. Guard File / Record File/Monitoring file.

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08/04/2015
ਸਰਪੰਚ,
ਗਰਾਮ ਪੰਚਾਇਤ ਅੰਬੇ ਮੇਜਰਾ,
ਬਲਾਕ ਸਰਗੋਠਾ (ਫ.ਗ.ਸ.)

(Dr. Satish C. Garkoti)
Director

Copy to Sarpanch
Village: Ambey Mejra
Mandi Gobindgarh (P.B.)