

F. No. J-11011/498/2011- IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
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New Delhi - 110003

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Dated: 8th April, 2015

To

✓ **M/s Bhawani Industries Limited,**
Village Ajnali, Opp. Focal Point,
Mandi Gobindgarh,
District Fatehgarh Sahib,
Punjab -147301.

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Subject: Expansion of Steel Manufacturing Unit by addition of Electric Arc Furnace (20T) and Rolling Mill (200 TPD) at Village Ajnali, Opp. Focal Point, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab by M/s. Bhawani Industries Limited - Environmental Clearance - regarding

Sir,

This has reference to your letter No. Nil dated 2.8.2012 and subsequent letters dated 15.1.2013, 17.1.2013, 26.8.2013, 7.2.2014 along with copies of EIA/EMP report seeking environment clearance under the provisions of EIA Notification, 2006. The ToR was awarded by MoEFCC vide letter of even no. dated 22.12.2011 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. Bhawani Industries Limited have proposed to expand their Steel Manufacturing Unit by addition of Electric Arc Furnace (20T) and Rolling Mill (200 TPD) at Village Ajnali, Opp. Focal Point, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab. M/s. Bhawani Industries Limited is currently manufacturing Steel Ingots, Billets, Flats, Strip, ERW pipes, G.I pipes at Village Ajnali, Opp. Focal Point, Mandi Gobindgarh, District- Fatehgarh Sahib, Punjab. The existing approved capacity is of 200 TPD Concast Billet, 50 TPD Steel Ingots, 110 TPD Flats/Strips, 60 TPD ERW Pipes & 80 TPD G.I. Pipes for which they have provided two nos Induction Furnace of capacities 20 & 6 TPH and a Rolling Mill. Consent to Operate for the existing unit was obtained from Punjab Pollution Control Board vide letter no. ZO-I/FGS/WPC/2011-12/F-391 dated 11.3.2011. Total plant area is 15.2 ha. The proposed expansion will be done within the existing plant premises, thus no additional land will be acquired for the proposed expansion project. No Forest land is involved. No R&R issues are involved. No Defense Installation, Biosphere Reserve, National Park/Wild Life Sanctuary, Ecologically Sensitive Area is located within 10

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km radius of the project site. No court case/litigation is pending against the proposed project. Total cost of the project is Rs. 23.5 Crores. Rs. 2.53 crores and Rs. 0.06 crores earmarked for the capital cost and recurring cost per annum towards the environmental pollution control measures. Rs. 120 lakhs is earmarked towards the Enterprise Social Commitment based on Public Hearing issues over a period of ten years.

3. Following are the existing and proposed production capacities:

Name of Units	Existing production capacity	Proposed expansion capacity	Total capacity after expansion
Induction Furnace (6 & 20 tons) & Casting Machine proposed Electric Arc Furnace (20 tons)	200 TPD Steel Billets	200 TPD Steel Billets	400 TPD Steel Billets
Steel Ingots	50 TPD	-	50 TPD
Rolling Mill for making Flats Strips	110 TPD	-	110 TPD
Pipe Mill for making ERW Pipes	60 TPD	-	60 TPD
Pipe Mill for making GI Pipes	80 TPD	-	80 TPD
Rolling Mill for making TMT Bar/Wire Rod/Rebar/Structural Steel	-	Converted to 200 TPD Products	200 TPD

4. It is noted that MS/CI scrap (346 TPD), sponge/pig iron (68 TPD), calcined lime and Silico – Manganese (11 TPD) are the raw materials that will be used which will be procured from the local market and transported to the plant site by trucks. Power requirement for the expansion project is 12.5 MW which will be met from Punjab State Power Corporation Limited.

5. It is noted that to control air emissions Bag Filters and Chimney of adequate height will be provided. Secondary fugitive emission from EAF will be captured using Fume Extraction System and cleaned in bag house.

6. The total water requirement for the proposed expansion will be 20 KLD. Water will be source from ground water. Application for permission of ground water abstraction is under process with CGWA. No waste water will be discharged outside the plant premises. Blow down water will be reused after adequate treatment.

7. The slag generated from EAF will be utilized for land filling and plinth filling. Green belt will be developed in about 33% of the total plant area. APCD dust, ETP Sludge, used CFL and other e-waste shall be stored in an impervious tank and sent to TSDF site for disposal. Used oil from D.G. Set will be sold to authorized recyclers.

8. The proposed expansion project is listed at S.No. 3(a) under category 'B' of Schedule of EIA Notification, 2006 and should have been appraised by SEIAA/SEAC. Due to location of the project falling within 10 km of radius of the Critically Polluted Area - Mandi Gobindgarh, as per the general condition of EIA Notification, 2006, the proposal has been appraised by the Expert Appraisal Committee (Industry) in the Ministry.


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9. The proposal was considered by the Reconstituted Expert Appraisal Committee (Industry) in its 3rd meeting held on 3-5th December 2012, 7th meeting held on 4-5th April 2013, 8th meeting held on 16-17th May 2013 and 13th meeting held during 18-20th November 2013. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public Hearing / Public Consultation meeting was conducted by the Punjab Pollution Control Board on 30.5.2012.

10. Based on the information submitted and presentation made before the Committee, 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 CONDITIONS :

- 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. The company shall install bag filters to control the particulate matter emissions below 50 mg/Nm³. Existing units should have emission limits within the stipulated limit of 100 mg/Nm³.
- iii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.
- iv. 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 should be followed. For the existing unit the PM in the stack should be restricted to 100 mg/Nm³.
- v. Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.
- vi. Plan for rain water harvesting facilities shall be prepared and a copy shall be submitted to the Ministry's Regional Office at Chandigarh, SPCB and CPCB within 3 months of issue of environment clearance letter.
- vii. The total water requirement shall not exceed 20 m³/day. Prior permission for drawl of ground water should be obtained from the CGWA and a copy submitted to the Ministry's regional office at Chandigarh. No effluent shall be discharged outside the plant premises and 'zero' discharge shall be adopted.
- viii. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy shall be submitted to the Ministry's Regional Office at


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Chandigarh, SPCB and CPCB within 3 months of issue of environment clearance letter.

- ix. As proposed, green belt over 33 % of the total project area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- x. Occupational health surveillance of the workers including regular analysis for respiratory and audiometric parameters should be done on a regular basis and records shall be maintained as per the Factories Act.
- xi. Proper housekeeping should be maintained within the plant premises. Process machinery, exhaust and ventilation systems should be laid in accordance with Factories Act. Better housekeeping practices should be adopted for improvement of the environment within the work environment.
- xii. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details should be prepared and submitted to the Ministry's Regional Office at Chandigarh. Implementation of such program should be ensured accordingly in a time bound manner.
- xiii. Provision shall be made for the housing of 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 structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:


- i. The project authorities must strictly adhere to the stipulations made by the Punjab 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.
- 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 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.
- 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

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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 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.
11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 12. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 13. 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)
Director

Copy to:

1. The Secretary, Department of Environment, Government of Punjab, Secretariat, Chandigarh.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, Punjab Pollution Control Board, Vatavaran Bhavan, Nabha Road, Patiala-147001.
4. The Additional Principal Conservator of Forests, Regional Office (NZ), Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh 160 047
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard file / Record file.


(Dr. Satish C. Garkoti)
Director