

Item No.163.14: Application for issuance of TORs for carrying out EIA study for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion of steel manufacturing unit by replacement/addition of induction furnaces in Village – Ambey Majra, Tehsil. - Sirhind, District Fatehgarh Sahib, Punjab by M/s Bhawani Casting (P) Limited (Proposal no SIA/PB/IND2/22273/ 2018)

The facts of the case are as under: -

Earlier, the industry was granted Environmental Clearance by MOEF&CC, New Delhi vide File No. J-11011/398/2011-IA II (I) dated 8th April 2015 for manufacturing of Steel Billets/Ingot @ 72000TPA of steel Billets & 72000TPA of Round, MS Bars, Flats & TMT Bars.

Now, the Project proponent has filed application for issuance of TOR under EIA notification, 2006 for expansion of steel manufacturing unit by replacing existing Induction Furnaces of capacity (10 TPH & 7 TPH) with two no furnaces of 15 TPH each & one number rolling mill in Village – Ambey Majra, Tehsil. - Sirhind, District Fatehgarh Sahib, Punjab. The project is covered under category 3(a) -Secondary Metallurgical Industries (ferrous & non ferrous) of the Schedule appended to the said notification. The details of the project as given in form 1 and other documents are as under:-

- The Directors of the company are as under:

Sh. Ashok Kumar Aggarwal

Sh. Gaurav Gupta

- The details are given in the tabulated form as under:-

S. No.	PARTICULARS	EXISTING	PROPOSED	TOTAL
A	EXISTING & PROPOSED CAPACITY OF FURNACES & ROLLING MILLS			
1	Induction Furnaces	10 & 7TPH (To be Replaced) & VD, LFR & Concast	Two N. IF 15 TPH each & VD, LFR & Concast	
2	Rolling Mills	1 Rolling Mill	1 Rolling Mill	2 Rolling Mills

B	PRODUCTS			
1	Steel Billets (TPA)	72000	34000	1,06,000
2	MS Bars, Round, Flats, TMT Bars(TPA)	72000	34000	1,06,000
C	RAW MATERIAL			
1	MS Scrap (TPA)	77760	36720	1,14,480.00
2	Ferro-alloys(TPA)	780	298	1078.00
D	GENERALS			
1	Project Cost (Crores)	12	10	22
2	Land (Acres)	5	NIL	5
3	Power (KW)	8380	5620	14000
4	Manpower (nos)	70	55	125
5	Working days	24 hrs 325 working days in year		
E.	WATER REQUIREMENT through existing tubewell			
1.	Domestic	10 KLD	5.0 KLD	15 KLD
2.	Cooling (makeup water)	25 KLD	Nil	25 KLD
	Total	35 KLD	5.0 KLD	40 KLD

- No Wildlife Sanctuary & no area of Reserved Forests fall within 10 km radius of the project. The industry is located in designated industrial zone. The land is industrial for which change of land use has been obtained from Department of Town & Country Planning Punjab. No additional land is required for expansion
- There will be no generation of trade effluents from the process. The waste water generated from domestic & cooling tower is being/will treated through Sewage treatment Plant and is being/will used for plantation within premises.
- The existing quantity of slag generated is 6.0 TPD and is being used for filling of low lying area. Total quantity of slag after expansion will be 10.0 TPD and will be used in filling of Low lying area and in Road Making.
- Hazardous waste @ 80ltr/annum is generated from DG sets in the form of

used oil which is being re-used as lubricants within the industry and dust after expansion (10 TPA) recovered by APCD will be sent to TSDF site for final disposal.

- Baseline data for the proposed plant will collected immediately after monsoon season. Primary data will be collected by monitoring & surveying of various environmental components / parameters in the core zone during the study period, details of which are given as under:-

S. NO.	PARAMETERS	DESCRIPTION
1	Meteorology	Meteorological parameters on hourly basis at project site. Parameters: Temperature, Relative humidity, Wind Speed & Wind Direction.
2	Air	Ambient air quality monitoring (24 hourly), twice a week. Parameters are PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ & CO. No. of Locations: 8 locations in core and buffer zone.
3	Noise	Noise level monitoring (Day & Night time), once in a season. No. of Locations: 8 locations in core and buffer zone.
4	Water	Ground water sampling, once in a season. No. of Locations: 8 locations in core and buffer zone. Tested for physical and chemical parameters.
5	Soil	Soil sampling, once in a season. No. of Locations: 6 locations in core and buffer zone.
6	Biological Factors	Biodiversity survey, once in a season. Location: Core and buffer zone.
7	Socio-economic Environment	Socio-economic survey, once in a season. Location: Core and buffer zone.

- The Environmental Impact And Management Plan is given as under:-

PARTICULARS	DETAILS
Impact on Air	
Construction/	Air emissions both gaseous and fugitive from proposed plant will

<p>Operational Phase</p>	<p>be on account of process emissions from stacks of existing Induction furnace & proposed Furnace as well as DG. Sets, transportation of men and material. The mitigation measure adopted as under:</p> <ul style="list-style-type: none"> ➤ The main raw material and product will be brought in and dispatched by road in covered enclosures. ➤ All the vehicle owners will have valid PUC Certificate ➤ All vehicles are loaded up-to prescribed limit during transportation. ➤ Dust suppression on haul roads will be done at regular intervals. ➤ Proper pollution control equipments like Multi-cyclone/bag filter will be provided. ➤ APCD solid waste after expansion will be sent to TSDF site for final Disposal.
<p>Air Quality Management:</p>	
<p>Emissions Management</p>	<ul style="list-style-type: none"> ➤ A stack of adequate height equipped with Bag filter will be installed with the Induction furnace to control the particulate and gaseous emissions due to combustion of fuel. ➤ All the roads are asphalted to control the fugitive dust emissions ➤ Proper servicing & maintenance of vehicles is/will be carried out. ➤ Green Belt around the periphery and within premises will be provided.
<p>Monitoring Management</p>	<p>Ambient air quality and stack emission will be regularly monitored to ensure that ambient air quality standards and suggested limits on stack emission loads would be met honestly at all the time.</p>
<p>Impact on water</p>	

Construction/ Operational phase	Water requirement of the plant will be meeting from existing tube well. Roof top rain water will be recharged to compensate GW.
Water Management	
	<ul style="list-style-type: none"> ➤ Fresh water requirement of the project will be met by existing tube well. ➤ Domestic waste water generated from the plant will be treated in Septic Tank and treated water will be used in green belt development. ➤ The cooling water will be re-circulated and cooling blow down will be dispose off through septic tank.
Impact on Noise	
Construction/ Operational Phase	<p>The expected noise levels of some of the proposed equipment like Pumps (82-95 dB (A), Induction furnace (95-105 dB (A), DG sets (100-120 dB (A).</p> <p>The above noise levels worked out are without mitigation measures. With the mitigation measures the noise levels will be further restricted within very short distance from the source point.</p> <p>The operators/personnel working near the noise sources in the Plant will be provided with earmuffs and earplugs</p> <p>Green belt will be developed around the plant premises which will act as noise abatement measures.</p>
Noise Management	
	<ul style="list-style-type: none"> ➤ There will be no danger of noise pollution from plant. The green belt (plantation of dense trees across the boundary) helps in reducing noise levels in distillery plant as a result of attenuation of noise generated due to plant operations and

	<p>transportation.</p> <ul style="list-style-type: none"> ➤ Earmuffs will be used while running the equipments of the plant. ➤ D.G sets will be provided with acoustic to control the noise level within the prescribed limit. ➤ A high standard of maintenance will be practiced for plant machinery and equipments, which helps to avert potential noise problems. ➤ Personal Protective Equipment like earplugs and earmuffs will be provided to the workers exposed to high noise level. ➤ Regular monitoring of noise level will be carried out.
Solid Waste Management	
Management	<ul style="list-style-type: none"> ➤ APCD dust is being sent to TSDF site and slag from process is sent to low lying area for final disposal.
Green belt Management	
Management	<ul style="list-style-type: none"> ➤ Green belt development in and around the plant site helps to attenuate the pollution level. ➤ Out of the total plant area approx. 15% land is already developed as green belt and it will be maintained in future also. ➤ Green belt has been developed as per Central Pollution Control Board (CPCB) guidelines. ➤ Native species have been planted in consultation with the local DFO.

- The cost@ 80.0 lacs towards Environment Protection will be spent.

The details of the document submitted with the application are as under:-

1.	Properly filled Form 1 and basic information	Yes
2.	Pre-feasibility Report	Submitted

3.	Proof of ownership of land	Submitted
4.	Copy of Memorandum of Article & Association / partnership deed / undertaking of sole proprietorship / list of Directors and names of other persons responsible for managing the day-to-day affairs of the project.	Submitted
5.	Draft ToRs	Submitted
6.	List of accredited EIA consultant organization with accredited sector of NABET	Submitted

Further, in compliance of the circular dated 07.09.2017, the Northern Regional office of MoEF&CC, Chandigarh has been requested vide letter no. 317 dated 08.03.2018 to send the certified compliance report the previously granted Environmental Clearance to the project.

The case is placed before the SEAC for its consideration.