

Proceedings of the item no. 190.08 & 190.09 of 190th meeting of State Expert Appraisal Committee held on 27.06.2020 at 10:30 am through video conferencing/ in the Conference Hall of PSCST at 2nd Floor, MGSIPA Complex, Sector-26, Chandigarh.

The 190th meeting of SEAC was held on 27.06.2020 through video conference on VIDYO APP in light of COVID 19. In the meeting, the following members were present:-

Sr. No.	Name of SEAC Member	Designation in SEAC
1.	Er. Yogesh Gupta	Chairman
2.	Sh. Pardeep Garg	Secretary
3.	Dr. Adarsh Pal Vig	Member, through online mode
4.	Er. Parminder Singh Bhogal	Member, through online mode
5.	Er. Nirmal Singh Kahlon	Member
6.	Sh. A.K. Bhatia	Member
7.	Dr. Pawan Krishan	Member, through online mode
8.	Dr. Harpreet Kaur	Member
9.	Sh. KL Malhotra	Member
10.	Dr. Sandeep S Viridi	Member, through online mode
11.	Sh. Deepak Sethi	Member, through online mode

At the outset, Secretary, SEAC welcomed the members of the State Expert Appraisal Committee (SEAC) and informed that the detailed agenda of the meeting and presentations of various items have already been circulated to all the members through e-mail. Thereafter, the agenda was taken up item wise for consideration.

Item No.190.08: Application for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion in existing steel manufacturing unit having existing capacity of 36,000 TPA of Steel ingots/billets to 1,68,000 TPA by replacing existing induction furnace located at G.T. Road, Sirhind Side, Tehsil- Amloh, Mandi Gobindgarh, District- Fatehgarh Sahib, Punjab by M/s. Bansal Alloys & Metals Pvt. Ltd (Unit-1) (Proposal No. SIA/PB/IND/47266 /2018).

SEAC observed that:

1.0 Background

M/s Bansal Alloys & Metals Pvt. Ltd had previously filed online application bearing proposal No. SIA/PB/IND/29493/2018 for issuance of TORs for expansion in existing steel manufacturing unit having existing capacity of 36,000 TPA of Steel ingots/billets to 1,68,000 TPA by replacing existing induction furnaces of 2 X 3TPH & 1 X 5TPH capacities with 2 no's of induction furnaces of capacity 20 TPH each and Concast Machine along with existing rolling mill at G.T. Road, Sirhind Side, Tehsil- Amloh, Mandi Gobindgarh, District- Fatehgarh Sahib, Punjab. The project of the promoter pertains to category 'B' and it falls under category 3(a) - Metallurgical Industries (ferrous & non-ferrous) of the Schedule appended to the said notification. The project was covered under public consultation and hence required public hearing was conducted on 10.09.2019.

1.1 Deliberations during 172nd meeting of SEAC held on 31.10.2018

The case was considered by the SEAC in its 172nd meeting held on 31.10.2018 and the same was attended by the following on behalf of the project proponent: -

- (i) Sh. Vijay Kumar, Director of the Promoter Company.
- (ii) Sh. Sital Singh, EIA Coordinator/FAE, M/s CPTL, Chandigarh, Environment consultant of the promoter company.
- (iii) Sh. R.S. Rana, FAE. M/s CPTL, Chandigarh, Environment consultant of the promoter company.

It was apprised to the SEAC that Environment Engineer, Regional Office of Punjab Pollution Control Board, Sri Fatehgarh Sahib vide email dated 30.10.2018 sent the construction status report of the project informing that the industry has not started any construction activity for the proposed expansion of the existing steel manufacturing unit having existing capacity of 36000 TPA of steel ingots / billets to 168000 TPA of steel ingots / billets.

Further, the industry was granted NOC expansion for installing Concast plant followed by rolling mill for manufacturing of HR strips, TMT bars @ 120 TPD vide no. CTE/Ext/FGS/2018/7825628 dated 30/6/2018, which is valid upto 28/8/2019. During visit, it was found that the industry has already installed the proposed Concast plant and is in process of installing rolling mill for which it had obtained NOC expansion as

mentioned above. During visit, it was found that the industry has constructed a new shed for installment of rolling mill, which was under progress as observed during visit. The industry is also in the process of installing 3 no. tanks as seen during the visit. The representative of the industry informed that these tanks will be used for re-circulation of water that will be used in proposed rolling mill. The representative of the industry certifies that no construction has been done regarding up-gradation of its induction furnaces as applied for expansion.

Further more, the industry has installed spark arrestor and cyclone followed by bag house filter as APCD with its induction furnace of capacity 5.0 TPH and 3 TPH separately. The industry has also provided twin spark arrestor followed by bag house filter as APCD with 2nd no. induction furnace of capacity 3 TPH. However, the industry has not upgraded its emissions collection system and APCD as per the recommendation of PSCST and accordingly has not submitted completion certificate of its containment-cum- air Pollution Control device (APCD) to control particulate emissions from their induction furnace from PSCST as per one of the special conditions mentioned in the varied consent granted to the industry. The industry was earlier granted authorization for collection, Storage and Disposal of hazardous waste under category no. 35.1 @ 27 TPA, valid upto 30/6/2021.No issue regarding any violation/complaint made against the industry is pending with their office as such, the industry is complying with Environmental laws.

To this statement of the project proponent, SEAC observed that the project proponent has not submitted details of existing rolling mill/proposed rolling mill including production details of such as MS Bars, Round, flats, TMT bars, wire rod manufactured and that of concast plant in its application form (Form-I). Thus, the application filed by the industry is not representative vis-a- vis products to be produced / plant to be established and for which environmental clearance sought. As the application is filed online, corrections are not feasible or possible. As such, the project proponent is required to submit afresh application online mentioning the exact details of the existing product/ new products being added /proposed products in the expansion project for which TOR/ Environmental clearance is sought.

After detailed deliberations, SEAC decided to accept the request of project proponent and recommended to SEIAA as under: -

- (i) The project proponent shall withdraw the present application and file a fresh application, representative of actual products / processes for which TOR/ environmental Clearance is required.
- (ii) The project proponent through its accredited environmental consultant may start the EIA study / monitoring based on Standard Scoping / TOR including the other prevailing special TOR being imposed in case of similar units recently in Mandi Gobindgarh / adjoining areas w.e.f 01/11/2018 onwards.

In compliance to the aforesaid observation mentioned at Sr.No.(i), the project proponent has submitted fresh application bearing proposal No. SIA/PB/IND /30460/2018 for issuance of TORs for expansion in existing steel manufacturing unit having existing capacity of 36,000 TPA of Steel ingots/billets to 1,68,000 TPA by

replacing existing induction furnace of 2 X 3TPH & 5TPH capacities with 2 no's of induction furnaces of capacity 20 TPH each and Concast Machine & enhancement in the capacity of Rolling Mill for manufacturing of Flats/TMT Bars, Rounds, Channels & Structural Steel from 36,000 TPA to 1,50,000 TPA at G.T. Road, Sirhind Side, Tehsil-Amloh, Mandi Gobindgarh, District- Fatehgarh Sahib, Punjab.

1.2 Deliberations during 174th meeting of SEAC held on 28.12.2018

The case was considered by the SEAC in its 174th meeting held on 28.12.2018 and the same was attended by the following on behalf of the project proponent: -

- (i) Sh. Pawan Kumar, General Manager of the industry.
- (ii) Sh. Sandeep Singh, FAE M/s CPTL, SAS Nagar, Environment consultant of the industry.

SEAC allowed the project proponent to present the salient features of the project and Environment Consultant of the project proponent presented the same as under:-

- M/s Chandigarh Pollution Testing Laboratory (CPTL) is accredited by QCI/NABET as Category-A EIA consultancy organization and the validity of accreditation is up to 9th February 2019. The Laboratory has also been certified from ISO 9001: 2015, ISO 14001: 2015 and OHSAS 18001: 2007.
- The site is not located within 5 km radius of Protected Areas notified under the Wild Life (Protection) Act, 1972, Critically Polluted areas as notified by the Central Pollution Control Board from time to time, Notified Eco-sensitive areas & Inter-State boundaries and international boundaries. As such, General Condition is not applicable on the project.
- It is existing unit and the following steps are taken care for efficient operation of APCD: -
 - i) Charging & Melting- Charging of processed/shredded scrap, Segregations of scrap to avoid any accident, over filling of furnace will be avoided.
 - ii) Air Pollution Control System - Existing APCD replaced with Pulse-Jet filtration system (Bag Filter)
 - iii) Proper Maintenance of bag filter- Maintain of pressure, Flue gas temperature, ID fan capacity & its maintenance.
 - iv) Collection & Disposal- Provision of side hood & adequate suction, provision of rotary air lock in hopper of spark arrestor, cyclone & bag house for collection of dust.
 - v) Training to operating staff.
 - vi) Interlocking of APCS with manufacturing process.

- The status of the exiting installed capacity of the industry is as under: -
 - Initially the industry was granted consent to establishment by Punjab Pollution Control Board, Patiala, Punjab, in 1990 for manufacturing of Steel Ingot by installing Induction furnace of capacity 3TPH. The industry was again granted consent to operate (CTO) for expansion in 1993 for manufacturing of Steel Ingot from 25 TPD to 80 TPD by adding one induction furnace of 3 TPH capacity and further granted consent to operate in 1998 (CTO) for expansion for manufacturing of Steel Ingot from 80 TPD to 120 TPD by adding one induction furnaces 5TPH capacity.

The details of the unit areas under:

Year of Establishment	Installed Capacity	Power Load	Total Production Capacity	Whether covered under EIA Notification or Not
1990	3 TPH	1829.451KW	7500 TPA	EIA notification did not exist at that time.
1993	3 TPH	1830.546KW	16500 TPA	
1998	5 TPH	3110 KW	12000 TPA	The industry was not covered under the EIA notification 1994, because the cost of project was less than Rs 100 Crore
In view of above, we have not violated the provisions of EIA notification, 1994, EIA notification dated 14.09.2006 and their amendments.				

- M/s Bansal Alloys & Metals Pvt. Ltd. is an existing Steel Manufacturing industry having two units named as Unit-I (established in 1989-90) and Unit-II (established in year 1992-93) having independent and separate setup.
- The Unit-I is having 3 Nos Induction Furnace with Production capacity to manufacture Steel Ingots/Concast Billets @36000 TPA based on 300 working days after getting approvals from competent Authorities i.e. SAC-cum-CSA/PPCB/DOF etc. Similarly, the Unit-II is having production capacity of 60000 TPA with additional production facility of V.D. & LRF etc. to manufacture Steel Ingots/Alloys Steel Ingots etc.
- They have already installed Induction furnaces having capacity 2x3TPH & 5TPH with one Concast Machine & a Rolling Mill. Now, it is proposed to enhance the production of unit by adding two number of Induction furnaces having capacity 20TPH each, a Concast by replacing existing furnaces and increasing the capacity of existing rolling mill.

S. No.	Particulars	Details
I.	Location	
a	Village/ Town/Plot No.	G.T. Road, Sirhind Side
b	Tehsil	Amluh
c	District	Fatehgarh Sahib
d	State	Punjab

e	Latitude	30°39'14.24"N,30°39'17.53"N 30°39'14.62"N,30°39'11.98"N		
f	Longitude	76°18'34.48"E,76°18'37.90"E 76°18'41.47"E,76°18'38.57"E		
2.	Topo-sheet No.	53B/2 &53B/6		
3.	Project Area	Total Area–5.0 Acres		
II.	Production Capacity	Existing: Steel Ingots/Billets–36,000TPA After Expansion: Steel Ingots/Billets–1,68,000TPA		
III.	Environmental settings			
1.	Nearest Village	G.T. Roads Sirhind		
2.	Nearest City	Mandi Gobindgarh, approx.1.5kmfrom the project site.		
3.	National Highway/State Highway/ Express Highway	NH-44 Delhi-Ludhianaisapprox.0.2km from the project site.		
4.	Nearest Railway Station	Mandi Gobindgarh, approx.2.1kmfrom the project site		
5.	Nearest Airport	Chandigarh Airport approx. 45.7km from the project site.		
6.	National Parks/ Wild Life Sanctuaries/ Biosphere Reserves within 10 km radius	Nil		
7.	Reserved / Protected Forest within 10 km radius (Boundary to boundary distance)	No, Reserved Forests exists within 10 km radius.		
8.	Nearest water bodies	Bhakhra Canal about2.9km		
9.	Source of Water	Ground water Existing tube-well		
10.	Seismic Zone	Zone– IV		
S. No.	PARTICULARS	EXISTING	PROPOSED	TOTAL
A	EXISTING&PROPOSED CAPACITY OF FURNACES&ROLLINGMILLS			
1	Induction Furnace	2 X 3TPH &5TPH (to be replaced)	2 X 20 TPH of Induction furnaces &Concast	
2.	Rolling Mill	36,000 TPA	1,50,000 TPA	
B	PRODUCTS			
1	Steel Ingots & Billets (TPA)	(-)36,000 TPA	(+)1,68,000 TPA	1,68,000 TPA
2	Flats/TMT Bars, Rounds, Channels etc.	36,000 TPA	1,14,000 TPA	1,50,000 TPA
C	RAWMATERIAL			
1	Member Secretary Scrap (TPA)	35,280	1,64,640	1,64,640
2	Ferro-alloys (TPA)	720	3,360	3,360
D	GENERALS			
1	Project Cost (Crores)	10.0	22.0	32.0
2	Land (Acres)	5.0	NIL	5.0
3	Power (KW)	6770	15,000	21,770
4	Manpower (Nos.)	150	70	220
5	Working days	24 hrs 350 working days in year		

- Water requirement met through existing tube well. The detail of water requirement existing & after expansion is given below:

DESCRIPTION	EXISTING	PROPOSED	TOTAL
Domestic	6.7 KLD	3.2 KLD	9.9 KLD
Cooling (makeup water)	10.1 KLD	25.9 KLD	36.0 KLD
Total	16.8 KLD	29.1 KLD	45.9 KLD

- There will be no generation of trade effluent from the process. The waste water generated from domestic & cooling tower will have treatment through STP and will be used for cooling purposes / plantation within premises.
- There will be emission from Induction furnaces & D.G. Sets. Adequate APCD (Bag filters) will be provided to control emission generated from process. As per the applicable statutory norms, the SPM level in the gas emission, at discharge point, shall not exceed 150 mg/NM³. Additionally, the stack height requirement for discharge of process emissions is also to be complied with. Also, ambient air quality within the premises should not have particulate matter concentration exceeding 100µg/m³ on 24-hour basis, and 60µg/m³ averaged on annual basis.
- The existing quantity of slag is 7.2 TPD and is being used for filling of low-lying area. Total quantity of slag after expansion will be 28.8 TPD and will be used for filling low lying area. Hazardous waste generated (0.02kl/annum) from DG sets in the form of used oil is being re-used as lubricants within the industry and dust after expansion (171.5 ton/annum) recovered by bag filter is also covered under hazardous waste & sent to TSDF site/ M/s Madhav Alloys Pvt. Ltd. for final disposal.
- As per the location of the site marked in the notified master plan, it falls in the industrial Zone. However, no documentary proof regarding its location in the industrial area/ zone / industrial park/ Industrial Estate from the concerned authorities or District Town Planner of the Department of Town & Country Planning, Punjab / Local Body / Development Authority has been submitted.
- The exemption from Public Consultation, as provided under para 7 (i) III Stage (3) (i) (b) of EIA notification, 2006, shall not be applicable to the project as the industry has not submitted any proof of its location in notified Industrial Estate/Industrial parks as defined in EIA notification, 2006.
- There are no wetlands, coastal zone, biospheres, mountains & reserve forest area within 10 KM radius. The activity of the unit will not affect the forests in any way. However, no documentary proof has been submitted.
- For Air Pollution Control, Wet Scrubber has already been provided on Induction furnaces. After expansion, Bag Filter will be provided. Canopy has also provided on DG Set.
- For Noise pollution, green belt (plantation of dense trees across the boundary) will be provided so as to reduce noise generated due to plant operations and

transportation. 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 will be developed as per Central Pollution Control Board (CPCB) guidelines.
- Native species will be planted in consultation with the local DFO.
- Personal Protective Equipment like earplugs and earmuffs will be provided to the workers exposed to high noise level.
- D.G sets will be provided with acoustic enclosure to control the noise level within the prescribed limit.
- Total Cost of the Project after expansion will be 21.04 Crores and 150.0 lacs have been provided for Pollution Control Measures.
- Environment Management Plan for this industry will be prepared keeping in view the existing conditions and likely changes which may occur due to the proposed project. Environment Management Cell shall be created to oversee all the programmes & will include Plant Manager (Head of Environment Cell), In charge Maintenance Department & a representative of Environmental Consultant.
- Proposed expansion will result in growth of the surrounding areas by increased direct and indirect employment opportunities in the region including ancillary development and supporting infrastructure. Special emphasis on Financial and Social benefits will be given to the local people. Development of social amenities will be in the form of medical facilities, education to underprivileged and creation of self-help groups. As per OM F.No.-22-65/2017-IA-III dated on 01st May, 2018, the organization will spend Rs. 25.0 Lakh for Corporate Environment Responsibility. The details of CER activity will be given in the final EIA report.
- The proposed expansion from 36,000 TPA to 1,68,000 TPA of Steel Billets/Ingots shall be carried out in the existing premises situated at Mandi Gobindgarh on NH-44. The material shall be transported via either side of NH-44. An estimated 24 no. of trucks each of capacity 20 ton will arrive in the premises daily. This meager increase will insignificantly impact the existing level of service on NH-44.

SEAC observed that pollution level of the Mandi Gobindgarh and adjoining area is a matter of concern. Thus, before issuance of the TOR to different industries going for expansion in the area, proper pollution control & mitigation measures are required to be adopted by them in order to reduce the pollution in the area. SEAC raised the following queries to project proponent to which he replied as under:

Sr. No.	Observation of SEAC Members	Reply of Project Proponent/ Consultant
1.	As to whether the project site is located in the notified industrial park/estate established before EIA notification 2006,	Project site is not located in the notified industrial park/estate but the site of the industry falls within the industrial zone as per

	so as to decide the requirement of public consultation?	the Master Plan of the Mandi Gobindgarh. As such, the public consultation is required.
2.	a) As to whether the project site is located in the notified area/ overexploited area of the Central Ground Water Authority. If yes, then how, the project proponent will meet the additional requirement of water intake for the expanded project.	a) Mandi Gobindgarh is not a notified area but is designated over-exploited area by the CGWA. They will obtain the necessary permission from the regulatory authority for the abstraction of additional ground water for the expansion project. If they will not be able to get permission for the same then either they will obtain permission for utilizing surface water from the concerned authority or utilize treated waste water.
	b) Whether there is a proposal to treat the domestic effluent and its utilization for plantation purposes.	b) STP will be provided to treat the domestic effluent and for its utilization for the plantation purpose to conserve the water.
	c) Whether there is a proposal to utilize the cooling tower blowdowns.	c) Cooling tower blowdown has normally a TDS below 2100 mg/l. This blowdown can be used for flushing activities or for gardening directly or by diluting the same with the fresh water. As such, the whole of the cooling water blowdown will be reutilized.
	d) Will there the generation of trade effluent from any acid pickling activity.	d) No such process is associated with their manufacturing activity. If at later stage any such effluent will be generated, the same will be disposed through authorized re-processors for manufacturing by-products like FeSO ₄ , etc.
3.	With a limited space, how the project proponent will fulfill the green belt criteria prescribed by MoEF&CC for such projects as per the Standard EC Conditions prescribed for Induction/ Electric Arc Furnace & Rolling Mills circulated vide OM dated 09/08/2018 by the MoEF&CC, New Delhi. As mentioned in the presentation, the existing Green Belt is 10% which is far below the minimum requirement of 33% as per the above OM.	While finalizing the layout, they will reserve the land for the green belt as per the provisions laid down in the OM dated 09/08/2018 by the MoEF&CC, New Delhi. If required, they will arrange additional land for the same.
4.	Further, with a limited space, how the project proponent will accommodate the other utilities for the expanded project including i) Loading/ Unloading area ii) Raw material/product storage area iii) Parking area i) Slag storage area	Presently, they don't have any data. However, while finalizing the layout, they will reserve the land for the said utilities. If required, they will arrange additional land particularly for the parking of vehicles, outside the premises. The project proponent requested to issue a specific Terms of Reference on this point and compliance of the same will be incorporated in

	<p>ii) Haz. Waste Storage area iii) Admn. Office etc. Are there any calculations made by the project proponent to accommodate the above utilities?</p>	<p>the EIA report.</p>
5.	<p>a) What is the cross-section of the road on which industry is located and its Traffic feasibility?</p> <p>b) In the wake of limited space in the premises, how, the additional traffic load will be managed as trucks will remain standing on roadside, affecting the traffic.</p> <p>c) Whether any traffic study has been done in the past or by the project proponent.</p>	<p>The exact road width is not known. He added that to avoid traffic hurdles, they will make necessary arrangements including the provision of dedicated parking in the nearby vicinity. He was not sure about the traffic study if any conducted by some agency in the Mandi Gobindgarh. He requested to issue a specific Terms of Reference on this point and compliance of the same will be incorporated in the EIA report.</p>
6.	<p>a) The industry has not upgraded its Air Pollution Control System (APCS) despite the directions issued by the State Board to the existing induction furnace units for compliance by the 30/06/2018. The feasibility report for redesigning the suction system & APCD is yet to obtain.</p> <p>b) Compliance status of code of practice, if any prescribed by the State Board?</p> <p>Why the committee shall believe that the project proponent will follow the guidelines prescribed by the State/SEIAA for the control of pollution when the existing unit has yet to follow the guidelines of the State Board.</p>	<p>a) The order has already been placed to upgrade the existing APCD as per the guidelines issued by PPCB and shall be upgraded at the earliest possible.</p> <p>b) Further, the standard operating procedures prescribed by the PSCST/PPCB shall also be followed in totality.</p> <p>The compliance will be made and shall be incorporated in the EIA report.</p>
7.	<p>As to whether the vehicle movement area within the premises as well as the approach road to the gate and weighing bridge area is paved or not to reduce the dust emissions.</p>	<p>The area within the premises for vehicle movement as well as the approach road to the gate and weighing bridge area is already paved.</p>
8.	<p>Whether there is a proposal to use CNG as the same has already been introduced in the Mandi Gobindgarh?</p>	<p>As they have concast plant, there is no specific requirement of additional heating/fuel. As such, there is no role of CNG usage at this stage in their plant.</p>
9.	<p>Whether the industry has the plan to adopt green technologies like the</p>	<p>Presently, they are shearing the scrap i.e. cutting the scrap into pieces of short size manually. Shredding is only feasible in big furnaces having production around 25000-</p>

	provision of shredders or to use energy-efficient technologies.	30,000 Ton per week. However, energy-efficient furnaces will be provided for the expansion project. The whole of the domestic effluent/cooling blowdown will be utilized back in the industry. The project proponent will follow the guidelines if any issued by the State Board or by the SEIAA.
10.	Rs. 25 lakhs proposed by the project proponent for the CER activities against the total project cost of Rs. 32 crores which is not adequate for a polluting industry.	They have proposed to reserve 0.75% for the CER activities. They will enhance the same to 1% and Rs. 32 lakhs will be kept reserved for such activities.

- SEAC took the aforesaid reply on record and decided to make the aforesaid observation as Specific TORs along with the standard TORs prescribed for such units.

After detailed deliberations, it was decided to categorize the project into B-1 category with public consultation as required for the projects not located in notified industrial parks/estates. The environmental consultant can start the EIA study/monitoring based on Standard Scoping / TOR including the other prevailing special TOR being imposed in case of similar units recently in Mandi Gobindgarh / adjoining areas w.e.f. the date of filing of a fresh application for issuance of TOR by the project proponent i.e. 22.12.2018. The project proponent shall submit an Environment Impact Assessment Study Report. The Committee approved the following Scoping & Terms of Reference for Environmental Impact Assessment Study of the proposed project and recommended to SEIAA to issue certain ToRs, specific ToRs, and following additional specific TORs.

1.3 Deliberations during 143rd meeting of SEIAA held on 07.02.2019

The case was considered by the SEIAA in its 143rd meeting held on 07.02.2019 and the same was attended by the following on behalf of the project proponent: -

- i) Sh. Pawan Kumar, General Manager of the industry.
- ii) Sh. Sital Singh, EIA Co-ordinator, M/s CPTL, SAS Nagar, Environment consultant of the industry.
- iii) Sh. R.S. Rana, FAE, M/s CPTL, SAS Nagar, Environment consultant of the industry.

Environmental Consultant of the Promoter Industry presented the salient features of the project and requested for issuance of TORs.

During discussions, the project proponent agreed to prepare detailed EIA on the basis of Terms of Reference as recommended by the SEAC and to submit the final EIA report incorporating the issues related to the Public Consultation process (to be held) as a separate chapter i.e. tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the commitments made to the Public during aforesaid consultation.

The SEIAA observed that the SEAC has categorized the project into B-1 category (activity listed 3 (a) of the schedule) with public consultation as required for the projects not located in notified industrial parks/estates and has recommended specific TORs for undertaking detailed EIA & EMP for such type of projects.

The SEIAA looked into the details of the case and was satisfied with the same. Therefore, the Authority decided to accept the recommendations of SEAC and approved Terms of Reference for undertaking detailed EIA & EMP as finalized by SEAC.

In compliance with the decision of SEIAA, ToRs were issued vide letter no. SEIAA/2019/260 dated 22.02.2019. Public hearing was carried on 10.09.2019 and the proceedings have been submitted.

2.0 Present Case

The project proponent submitted the EIA report. EIA report was scrutinized and EDS was raised on 11.05.2020 and 23.06.2020, to which the project proponent replied vide letter dated 05.06.2020 and 24.06.2020 respectively.

Further, the project proponent has deposited EC processing fee of Rs. 3,20,000/- dated 05.06.2020 through RTGS NO.- HDFCR52020060582496040. The application for obtaining EC was accepted online on 25.06.2020.

3.0 Deliberations during the 190th meeting of SEAC held on 27.06.2020

The case was placed in the 190th meeting of SEAC held on 27.06.2020 and was attended by the following through Video Conference:

- i) Sh. Vijay Bansal, Director of the promoter company.
- ii) Sh. Sital Singh, EIA coordinator, M/s CPTL, Mohali, Environmental Consultant of the promoter company.

Environmental Consultant presented the following salient features of the project as under:

Sr. No.	Item	Details
1.	Online Proposal No.	SIA/PB/IND/47266/2018
2.	TOR Letter	SEIAA/2019/260 dated 22.02.2019
3.	Name and Location of the project	M/s Bansal Alloys & Metals Pvt. Ltd., G.T. Road, Sirhind Side, Mandi Gobindgarh, District- Fatehgarh Sahib, Punjab
4.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006.	3(a): Metallurgical Industries (Ferrous & Non- ferrous).
5.	Consent to operate (Air/water)	Project Proponent has applied for consent to operate under Air (Prevention & Control of Pollution) Act, 1981 vide Application ID No. 12635721 dated 24.05.2020 and the same is pending with the PPCB. However, consent to operate under

		the Water (Prevention & Control of Pollution) Act, 1974 is valid up to 31.03.2024.		
6.	Public Hearing status	The public hearing was conducted on dated 10.09.2019 in the industry premises. The project proponent submitted a satisfactory reply in reference to all the Public Hearing points.		
7.	Product & Bye Product Details	Existing (TPA)	Additional (TPA)	Total (TPA)
i	Steel Ingots/ Billets	36,000	1,32,000	1,68,000
ii	Flats/TMT Bars, Rounds, Channels etc	36,000	1,14,000	1,50,000
8.	Raw Material Details	Existing (TPA)	Additional (TPA)	Total (TPA)
i	M.S Scrap	35,280	1,29,360	1,64,640
ii	Ferro Alloys	720	2,640	3,360
9.	Machinery Details	Existing	Proposed	Total
i	Induction Furnace	2X3 TPH & 5 TPH (to be placed)	2X20 TPH of IF &concast	2X20 TPH
ii	Rolling Mill	36000 TPA	1,32,000 TPA	1,68,000 TPA
iii	Concast Machine	---	01 No.	01 No.
10.	Cost of project	Existing	Proposed	Total
	Cost (INR in Crores)	10.0	22.0	32.0
11.	APCD cost	Existing	Proposed	Total
	APCD Cost (INR IN Crores)	0.63	0.70	1.33
12.	Latitude & Longitude	Corner coordinates:		
		Point	Latitude	Longitude
		A	30°39'14.24"N	76°18'34.48"E
		B	30°39'17.53"N	76°18'37.90"E,
		C	30°39'14.62"N	76°18'41.47"E
		D	30°39'11.98"N	76°18'38.57"E
13.	Whether the project is in critical polluted area or not.	No, Project does not fall in critically polluted area.		
14.	Classification/Land use pattern as per Master Plan	Industrial zone as per Master plan of Gobindgarh.		

15.	(a) In case (s) where land has already been purchased/acquired: Proof of ownership of land (b) In case where land is yet to be purchased/acquired: Proof of ownership of land (existing owner) such as copy of latest Jamabandi (not more than one month old) and credible document	Submitted
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	showing status of land acquisition w.r.t. project site as prescribed in OM dated 07.10.2014 issued by MoEF)	
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16.	Cost of the project	Rs. 32 Crores			
17.	EC processing fee details	An amount of Rs. 3,20,000/- has been submitted on dated 05.06.2020 through RTGS NO.- HDFCR52020060582496040			
18.	Total Plot area, Built- up Area and Green area	The details of project are sunder:			
		Detail of Area			
		Description	Area (Sqm.)		
		Total Area	21205.39		
		Covered Area	8871.59		
		Green Area	7002.78		
		Road Area	3475.83		
		Parking Area	1410.43		
		Open Area	444.72		
19.	Breakup of Water Requirements & source in Operation Phase (Summer, Rainy, Winter): Total water requirement for the project after expansion will be 45.9 KLD; out of which fresh water requirement will be 9.9 KLD. Break-up of the same is given below:				
	S. No.	Description	Existing water demand (KLD)	Proposed water demand (KLD)	Water demand after expansion (KLD)
	1.	Cooling water demand	10.1	25.9	36.0
	2.	Domestic water demand	6.7	3.2	9.9
		Total	16.8		45.9
	S. No.	Description	Source of water		
	1.	Domestic	Ground water		
	2.	Make-up water demand for cooling	Recycling		
	3.	Flushing purposes	Treated waste water		
	4.	Green area water demand	Treated waste water		
20.	Disposal Arrangement of Waste water in Operation Phase	Details	Quantity (After expansion)	Remarks	
		Industrial Effluent	-	-	
		Domestic effluent	8 KLD	Will be treated in STP of 12KLD capacity	

21.	CGWA Approval	The project proponent submitted application vide no. 21-4/4949/PB/IND/2019 on dated 27.03.2019 for 63 KLD water requirements.		
22.	Rain water recharging detail	A pond of Bhamershi Khurd village will be adopted. Total 36422 KL/annum water will be recharged. Waste water of nearby Bhamershi Khurd village which will be directed towards the village ponds will be first treated in trenches through CSIR-NEERI's Phytorid waste water treatment technology and overflow water will be discharged into the pond. NOC for RWH from concerned Panchayat has already been obtained.		
23.	Solid waste generation and its disposal	About 26.5 TPD of slag will be generated and the same after recovering of iron will be sold to M/s Vohra Industries. An agreement has been made for the same.		
24.	Hazardous Waste &E-Waste	The details of the hazardous waste generated is given below:		
	Sr. No.	Hazardous Waste Category	Quantity (After expansion)	Disposal
	i)	Cat.35.1 – Exhaust air or Gas cleaning Residue.	350.0 TPA	Shall be sold to M/s Madhav Alloys, Fatehgarh Sahib, for recovery of metal.
	ii)	Cat.5.1 – Used Oil	0.02 KL per annum	Shall be sold to authorized recyclers.
25.	Energy Requirements & Saving	The details of the energy are given below:		
	S. No.	Description	Existing	After expansion
	1.	Power load	6770 KW	21,770 KW
	2.	D.G sets	500kVA	500kVA
	<u>Energy-saving measures:</u>			
	a) LEDs will be used in place of CFL			
	b) Solar lights will be used for lighting the streets			
26.	Environment Management Plan along with Budgetary breakup phase wise and responsibility to implement			
	Sr. No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
	1.	Pollution Control during construction stage	5.0	---
	2.	Air Pollution Control (Installation of APCD)	70.0	10.0

	3.	Water Pollution Control / Septic tank upgradation	8.0	0.5	
	4.	Noise Pollution Control (Including cost of Landscaping, Green Belt)	10.0	0.30	
	5.	Solid Waste Management	10.0	--	
	6.	Environment Monitoring and Management	5.0	0.10	
	7.	Occupational Health, Safety and Risk Management	10.0	0.20	
	8.	RWH	10.0	0.10	
	9.	Miscellaneous	4.0	---	
		Total	132	11.2	
27.	CER activities Mr. Vijay Kumar Bansal of M/s Bansal Alloys & metals Pvt. Ltd. will be responsible for implementation of CER. An amount Rs.33 lakhs will be spent in two phases a) & b) on the following activities:				
a)	Rs. 25 Lakhs will be spent in S.N.A.S. Senior Secondary School, Mandi Gobindgarh on the following activities: -				
	Sr.No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline
					Start End
	1.	Science Lab Equipments	Infrastructure	5.00	Feb,2021 March 2022
	2.	School Building Renovation	Infrastructure	5.00	Jan 2022 Dec 2022
	3.	Toilet Block for Students	Water Hygiene & Sanitation	8.00	March 2022 Dec. 2023
	4.	Smart Classes Equipments	Infrastructure	3.00	Oct 2020 Dec 2020
	5.	Furniture & Air Condition for Science Lab	Infrastructure	4.00	Oct 2020 Dec 2020
	Total			25.0	
b)	Further, Rs. 8 Lakhs will be spent in Parbhat Puri Charitable Hospital, Amloh road, Shanti Nagar, Mandi Gobindgarh. The activities are as follows				
	S.No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline
					Start End
	1.	Medical Equipments & Office Appliances	Infrastructure	4.00	Jan 2021 March 2022
	2.	Solar Panel	Infrastructure	3.00	April 2022 Dec. 2022
	3.	Water Cooler & R.O. System	Water Hygiene	1.00	Oct 2020 Dec. 2020
	Total			8.0	

SEAC made certain observations to which project proponent replied as under:

S. No.	Observations	Reply submitted by the project proponent																															
1.	<p>a) Whether, separate Air Pollution Control Device (APCD) has been proposed for the rolling mill. If, yes whether, cost of the same has been included in the project cost.</p> <p>b) Revised EMP cost to be submitted based on revised cost of APCD.</p>	<p>a) APCD in the form of Pulse-jet bag filter with offline cleaning technology will be provided on the Induction Furnace of capacity 20 TPH each.</p> <p>Design of the proposed APCD will be taken from Punjab State Council for Science and Technology, (PSCST) Chandigarh.</p> <p>Design for the existing APCD installed on the furnace capacity i.e. 2×3 TPH & 5 TPH, has already been taken from the PSCST and adequacy certificate from PSCST, Chandigarh has been obtained.</p> <p>Continuous Casting Machine (CCM) will be provided and direct rolling will be done. After passing through CCM and there will be no requirement of re-heating furnace in the unit. Thus, there will be no requirement of separate APCD for rolling mill. Further, an online monitoring system will be provided for sampling at the inlet/outlet of APCD. An undertaking in this regard has been submitted.</p> <p>b) Project proponent submitted revised EMP cost of Rs. 195 Lacs towards the capital cost and Rs 11.20 Lacs/annum towards recurring cost as mentioned below:-</p> <table border="1" data-bbox="602 1056 1367 1906"> <thead> <tr> <th data-bbox="602 1056 683 1213">S.No</th> <th data-bbox="683 1056 997 1213">Title</th> <th data-bbox="997 1056 1170 1213">Capital Cost Rs. Lakh</th> <th data-bbox="1170 1056 1367 1213">Recurring Cost Rs. Lakh</th> </tr> </thead> <tbody> <tr> <td data-bbox="602 1213 683 1314">1.</td> <td data-bbox="683 1213 997 1314">Pollution Control during construction stage</td> <td data-bbox="997 1213 1170 1314">5.0</td> <td data-bbox="1170 1213 1367 1314">---</td> </tr> <tr> <td data-bbox="602 1314 683 1446">2.</td> <td data-bbox="683 1314 997 1446">Revised Air Pollution Control Device cost (Installation of APCD)</td> <td data-bbox="997 1314 1170 1446">133.0</td> <td data-bbox="1170 1314 1367 1446">10.0</td> </tr> <tr> <td data-bbox="602 1446 683 1547">3.</td> <td data-bbox="683 1446 997 1547">Water Pollution Control/ STP up-gradation</td> <td data-bbox="997 1446 1170 1547">8.0</td> <td data-bbox="1170 1446 1367 1547">0.50</td> </tr> <tr> <td data-bbox="602 1547 683 1745">4.</td> <td data-bbox="683 1547 997 1745">Noise Pollution Control (Including cost of Landscaping, Green Belt)</td> <td data-bbox="997 1547 1170 1745">10.0</td> <td data-bbox="1170 1547 1367 1745">0.30</td> </tr> <tr> <td data-bbox="602 1745 683 1845">5.</td> <td data-bbox="683 1745 997 1845">Solid Waste Management</td> <td data-bbox="997 1745 1170 1845">10.0</td> <td data-bbox="1170 1745 1367 1845">---</td> </tr> <tr> <td data-bbox="602 1845 683 1906">6.</td> <td data-bbox="683 1845 997 1906">Environment Monitoring</td> <td data-bbox="997 1845 1170 1906">5.0</td> <td data-bbox="1170 1845 1367 1906">0.10</td> </tr> </tbody> </table>				S.No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh	1.	Pollution Control during construction stage	5.0	---	2.	Revised Air Pollution Control Device cost (Installation of APCD)	133.0	10.0	3.	Water Pollution Control/ STP up-gradation	8.0	0.50	4.	Noise Pollution Control (Including cost of Landscaping, Green Belt)	10.0	0.30	5.	Solid Waste Management	10.0	---	6.	Environment Monitoring	5.0	0.10
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			and Management		
		7.	Occupational Health, Safety and Risk Management	10.0	0.20
		8.	RWH	10.0	0.10
		9.	Miscellaneous	4.0	--
			TOTAL	195.0	11.20
2.	Trees should be provided in the green area and no shrubs should be planted.	Project proponent submitted undertaking regarding plantation of 1051 trees in 7002 m ² green area indicating species of trees to be planted and no shrubs will be planted.			
3.	Rain water utilization proposal during monsoons	Project proponent submitted rain water utilization proposal during monsoons season alongwith tank design for rain water storage. Two tanks of capacity 66 KLD each will be provided to store the rain water fun off generated from the roof top during monsoon season.			

The SEAC observed that the project proponent has provided adequate, satisfactory clarifications to the above-said observations raised by it.

4.0 Recommendations

After detailed deliberations, SEAC decided to award '**Silver Grading**' to the project proposal and forward the application to SEIAA with the recommendations to grant Environmental Clearance for expansion of its existing unit located at G.T. Road, Sirhind Side, Tehsil- Amloh, Mandi Gobindgarh, District- Fatehgarh Sahib, Punjab by M/s. Bansal Alloys & Metals Pvt. Ltd (Unit-1) as per the details mentioned in Form 2, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with aforesaid salient features and conditions given as under:-

I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned Punjab Pollution Control Board.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority/competent authority concerned, in case of drawl of ground water and also in case of drawl of surface water required for the project. In case of non- grant of permission by CGWA for ground water abstraction, the industry shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from competent authority.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vii. The project proponent shall comply with the siting criteria, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
- viii. The project proponent shall comply with the CLU conditions imposed by competent authority, if any

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- iii. The project proponent shall install a system to carryout Manual Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly.
- viii. Recycle and reuse of iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration should be ensured.
- ix. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- xii. Design and implementation of the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars should be ensured.

III. Water quality monitoring and preservation

- i. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.

- ii. The project proponent shall adhere to 'Zero Liquid Discharge'.
- iii. Sewage Treatment Plant of capacity 12 KLD shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off
- v. The project proponent shall practice rainwater harvesting to maximum possible extent. For this, a village pond having recharge capacity @ 24,281.13 m³, located at Village Bhamershi Khurd shall be adopted for desilting to recharge the water @ 36,421.95 m³/annum (50% of total recharge 72,843.9 m³/annum). As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytorid plants trench (designed based on the technology developed by CSIR-NEERI's) divided in different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to purification of water and collected into pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.
- vi. The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

- i. Noise level survey shall be carried as per the prescribed guidelines and the report in this regard shall be submitted to the Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. The project proponent shall practice hot charging of slabs and billets/blooms as far as possible.
- ii. The project proponent shall provide solar power generation on rooftops of buildings, solar light system for all common areas, street lights, parking around project area and maintain the same regularly.

- iii. The project proponent shall provide the for LED lights in their offices and residential areas.

VI. Waste management

- i. Used refractories shall be recycled as far as possible.
- ii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iii. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- iv. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

- i) Green belt shall be developed in an area equal to at least 33% (7002.78 sqm) of the plant area with tree species as mentioned in reply to SEAC observation in its 190th meeting in accordance with CPCB guidelines. Total 1051 trees to be planted and there shall not be any shrub. The greenbelt shall inter alia cover the entire periphery of the plant. The industry shall ensure that most of the periphery shall be provided with green belt by removing the unwanted/non-productive structures already provided in the existing project near the boundary wall.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. 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, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

- v. The project proponent shall carry out the activities apart from CER activities and spent an amount as commuted during public hearing as per public hearing Action plan.

IX. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the revised proposal for CER activities for spending atleast minimum amount of Rs.33 Lacs (Rs. 25 Lacs + Rs. 8 Lacs) towards following CER activities:

- a) Rs. 25 Lakhs will be spent in S.N.A.S. Senior Secondary School, Mandi Gobindgarh. The activities are as follows: -

S.No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline	
				Start	End
1.	Science Lab Equipments	Infrastructure	5.00	Feb,2021	March, 2022
2.	School Building Renovation	Infrastructure	5.00	Jan 2022	Dec 2022
3.	Toilet Block for Students	Water Hygiene & Sanitation	8.00	March 2022	Dec. 2023
4.	Smart Classes Equipments	Infrastructure	3.00	Oct 2020	Dec 2020
5.	Furniture & Air Condition for Science Lab	Infrastructure	4.00	Oct 2020	Dec 2020
Total			25.0		

- b) Further, Rs. 8 Lakhs will be spent in ParbhatPuri Charitable Hospital, Amloh road, Shanti Nagar, Mandi Gobindgarh. The activities are as follows: -

S.No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline	
				Start	End
1.	Medical Equipments & Office Appliances	Infrastructure	4.00	Jan 2021	March 2022
2.	Solar Panel	Infrastructure	3.00	April 2022	Dec. 2022
3.	Water Cooler & R.O. System	Water Hygiene	1.00	Oct 2020	Dec. 2020
Total			8.0		

However, CER activities shall strictly be in accordance with the activities listed out in the OM dated 01.05.2018 and as per the proposal submitted by the project proponent. The amount to be spent on CER activities shall be proportionate to the amount spent on project & such activities shall run parallel to the project execution. All the activities must be completed with the completion of the project.

- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions to all / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The Year-wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall spend a minimum amount of Rs. 195 Lacs towards the capital cost and Rs 11.20 Lacs/annum towards recurring cost including the environmental monitoring cost for the implementation of EMP as proposed in revised EMP plan submitted as per following details:

S.No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
1.	Pollution Control during construction stage	5.0	---
2.	Revised Air Pollution Control Device cost (Installation of APCD)	133.0	10.0
3.	Water Pollution Control/ STP up-gradation	8.0	0.50

4.	Noise Pollution Control (Including cost of Landscaping, Green Belt)	10.0	0.30
5.	Solid Waste Management	10.0	---
6.	Environment Monitoring and Management	5.0	0.10
7.	Occupational Health, Safety and Risk Management	10.0	0.20
8.	RWH	10.0	0.10
9.	Miscellaneous	4.0	--
	TOTAL	195.0	11.20

The entire cost of the environmental management plan will continue to be borne by the project proponent. Year-wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

- v. Self-environmental audit shall be conducted annually. Every three years third-party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.

X. Validity

- i. This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier.

XI. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA /EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee and SEIAA.
- x. 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).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.

- xiv. The Regional Office of this Ministry and Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office and PPCB by furnishing the requisite data / information/monitoring reports.
- xv. 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 and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

XII. Additional Specific Conditions decided during the meeting of SEAC

- i. The project proponent shall install Side Suction Hood followed by Pulse-Jet Bag filter with offline cleaning technology as APCD for two Induction Furnaces of capacity 20TPH each as per the amount indicated in the revised Environment Management Plan.
- ii. The project proponent shall install 24x7 continuous online SPM monitoring system at the inlet & outlet of APCD to monitor and achieve the suspended particulate matter (SPM) emission standards as prescribed by CPCB/SPCB.
- iii. The project proponent shall submit monthly summary report of continuous stack emission (inclusive of data of continuous SPM monitoring at inlet & outlet of APCD before stack) and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. The project proponent shall obtain NOC from CGWA for abstraction of ground water to meet the requirement of Industrial, domestic & green belt.
- v. The project proponent shall implement Rain water utilization by installing rain water tank of capacity 132KL (i.e 2 x 66KL each) in order to store rain water run off generated from the roof top during monsoon season within its premises.
- vi. The project proponent shall dispose of slag @ 30 MT per day as per the agreement.

- vii. The project proponent shall dispose of APCD dust @ 350 TPA to M/s Madhav Alloys Pvt. Ltd.
- viii. The project proponent shall minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- ix. The project proponent shall provide STP of adequate capacity for treatment of waste water & reutilization of the treated water for non- portable use so as to achieve the zero liquid discharge condition as per the III (iv) of OM dated 09.08.2018 issued by the MoEF&CC for such units.
- x. The project proponent shall reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.
- xi. The project proponent shall reserve land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking. The area to be reserved by considering the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.
- xii. The project proponent shall comply with the standard operating procedures and upgradation of suction and control arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.
- xiii. Whole of the vehicle movement area as well as approach road to the gate /weighing bridge shall be paved with pucca / metalled / cement concrete road to control the dust emissions expected from the vehicle movement.
- xiv. The vehicles to be used for loading/unloading purposes shall not be parked along the roadside to avoid the traffic congestion and dedicated parking place to be provided for the same.
- xv. The project proponent shall adopt green technologies to conserve water & energy. Also, provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.
- xvi. The project proponent shall use natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.

- xvii. The project proponent shall take necessary action w.r.t. the following: -
- a. Recovery of iron from slag before disposing of it.
 - b. Identify the areas for utilization of slag in a scientific manner and its usage in cement/construction industry/road laying etc.

Item No.190.09: Application for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion of Steel Manufacturing Unit namely "Punjab Steels" at Village Tooran, Amloh Road, Tehsil Amloh, Distt. Fatehgarh Sahib, Punjab by M/s. Punjab Steels (Proposal no SIA/PB/IND/22215/2018)

SEIAA observed as under:

1.0 Background:

The project proponent submitted an application for issuance of TOR under EIA notification, 2006 for expansion of Steel Manufacturing Unit namely "Punjab Steels" at Village Tooran, Amloh Road, Tehsil Amloh, Distt. Fatehgarh Sahib, Punjab. The project proponent will replace already installed 02 nos. Induction Furnace of capacity 04 TPH and 06 TPH with 2 nos. of Induction Furnaces of capacity 15 TPH each. The project is covered under category 3(a) - Secondary Metallurgical Industries (ferrous & nonferrous) of the Schedule appended to the said notification. The project proponent submitted the Form 1 and other documents.

1.1 Deliberation during the 164th meeting of SEAC held on 10.04.2018

The case could not be taken up due to paucity of time and was deferred.

1.2 Deliberation during the 165th meeting of SEAC held on 21.04.2018

The project proponent requested to SEAC to defer the case as the presentation of the case is not ready and sought some time for the same. After deliberations, SEAC decided to accept the request of the project proponent and decided to defer the case and the same to be placed in the next meeting of SEAC.

1.3 Deliberation during the 166th meeting of SEAC held on 24.05.2018

The meeting was attended by the following on behalf of the project proponent:

- (i) Sh. Kulwant Rai, General Manager on behalf of the promoter company.
- (ii) Ms. Priyanka Madan, Sr. Manager, Eco Laboratories & Consultants Pvt. Ltd., Mohali, Environmental Consultant of the promoter Company.

SEAC allowed the Environmental Consultant to present the salient features of the project. The environmental consultant presented the salient features of the project which was taken on record by SEAC.

After detailed deliberations, it was decided to categorize the project into B-1 category and that the project proponent should submit an Environment Impact Assessment Study Report. After further deliberations on the proposed Terms of Reference (TOR) suggested by the project proponent, the Committee approved the Terms of Reference for Environmental Impact Assessment Study of the proposed project including above observation as conditions of TOR and recommended to SEIAA to issue TORs.

1.4 Deliberation during 133rd meeting of SEIAA held on 06.07.2018

The meeting was attended by the following on behalf of the project proponent:

- (i) Sh. Kulwant Rai, Manager of the promoter company.
- (ii) Ms. Priyanka, Environmental consultant, M/s EQMS India Pvt. Ltd. of the promoter Company

Environment consultant of the promoter company presented the salient features of the project before the SEIAA and requested for issuance of TORs. During discussions, representative of the industry agreed to comply with fully all the ToRs as mentioned by SEAC. The SEIAA observed that the SEAC has categorized the project into B-1 category and has recommended specific TORs for undertaking detailed EIA & EMP for such types of projects. The SEIAA looked into the details of the case and was satisfied with the same. Therefore, the Authority decided to accept the recommendations of SEAC and approved Terms of Reference for undertaking detailed EIA & EMP as finalized by SEAC. In compliance with the decision of SEIAA.

Accordingly, ToRs were issued vide letter no. SEIAA/2018/875 dated 16.07.2018. The public hearing was carried out on 27.02.2018 and the proceedings have been submitted.

2.0 Present Case

The project proponent submitted the EIA report. EIA report was scrutinized and EDS were raised, to which project proponent replied vide letter dated 15.10.2019, 24.12.2019, 16.03.2019, 08.06.2020 & 23.06.2020 respectively.

The Project proponent deposited the Environmental Clearance processing fee of Rs. 1,39,300/- vide NEFT no. 000073909256 dated 23.09.2019 and to Rs. 700/- vide UTR no. 000084506157 dated 05.03.2020.

The total project cost was again changed from Rs. 13.99 crore to Rs. 14.59 crore due to the reason that the APCD cost was revised. Accordingly, the balance processing fee of Rs. 6,000/- was deposited vide UTR no. 000656914511 dated 23.06.2020.

The application for obtaining EC was accepted by SEAC online dated 25.06.2020.

3.0 Deliberations during the 190th meeting of SEAC held on 27.06.2020

The case was placed in the 190th meeting of SEAC held on 27.06.2020 which was attended by the following through Video Conference:

- i) Sh. Rajesh Mittal, Partner of the promoter company.
- ii) Dr. Sandeep Garg, Environmental Consultant from M/s Eco Laboratories and Consultants Pvt Ltd.

Environmental Consultant presented the salient features of the project as under:

Sr.No.	Item	Details
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1.	Online Proposal No.	SIA/PB/IND/22215/2018				
2.	Name and Location of the project	Expansion of Steel Manufacturing Unit namely "Punjab Steels" located at Village Tooran, Amloh Road, Tehsil. Amloh, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab				
3.	Latitude & Longitude	Corners coordinates of the project boundary are given below: A: 30°38'47.00"N and 76°16'18.36"E B: 30°38'53.46"N and 76°16'18.70"E C: 30°38'53.96"N and 76°16'13.74"E D: 30°38'48.61"N and 76°16'13.52"E				
4.	Project/ activity covered under item of scheduled to the EIA Notification, 14.09.2006.	Schedule 3(a): Metallurgical Industries (ferrous & non ferrous)				
5.	Whether the project falls in the critical polluted area.	No, the project proponent submitted a letter from RO, PPCB, Fatehgarh Sahib vide letter no. 4642 dated 24.12.2019 wherein it is mentioned that industry falls under the non-attainment city of Mandi Gobindgarh area.				
6.	Classification/ Land use pattern as per Master Plan.	Industrial				
7.	Revised Cost of the project	PP submitted revised project cost - After expansion, total cost of the project is estimated to be Rs. 14.59 Crores. The details of the existing & proposed cost are given below:				
		S. No.	Existing (in Crores)	Proposed (in Crores)	Total (in Crores)	
		1.	Rs. 9.43 Cr.	Rs. 5.16 Cr.	Rs. 14.59 Cr	
8.	Total Plot area, Built-up area and Green area.	The area details of the project are as under:				
		Sr. No	Description	Existing (sqm)	Proposed (sqm)	Total (sqm)
		1.	Total area	5.60 acres (or 22,483.27 sqm)		
		2.	Shed area	10,578.99 sqm		
		3.	Green Area	7,430.76 sqm		
10.	Public Hearing	The public hearing was conducted on dated 27.02.19 in the industry premises. The project proponent submitted a satisfactory reply in reference to all the public hearing points.				
11.	Raw material details are given below:					
	S. No.	Description	Raw Materials & Quantity (TPD)	Mode of transport		
	1.	Existing	Scrap (121)	By road through trucks (approx. 6 trucks per day).		
			Ferro Alloys (1)			

	2.	After Expansion	Scrap (359) Ferro Alloys (4)	By road through trucks (approx. 18 trucks per day).
12.	Products details are given below:			
	Description	Capacity	Products	
	Existing	115 TPD	Ingots/TMT Bars	
	After Expansion	330 TPD	Ingots/TMT Bars	
13.	Details of Induction furnaces & Rolling Mill:			
	Description	Existing	Proposed	Total (After Expansion)
	Machinery	1 IF's of capacity 4 TPH 1 IF's of capacity 6 TPH	Replacement of the existing 2 IF's with the 2 IF's capacity 15 TPH each and direct rolling through CCM.	2 IF's of capacity 15TPH each and direct rolling through CCM
14.	Ground/Fresh water requirement permission	The project falls in the notified block area. The project proponent submitted an application to District Advisory Committee on 05.03.2020 for want of permission of freshwater @ 86.5 KLD through its two existing bore wells located within the project premises.		
15.	Solid waste generation and its Disposal agreement	(i) Approximately, 13 Kg/day of domestic solid waste is being generated from the existing project & after expansion, approx. 18 kg/day of domestic waste will be generated. Waste will be collected properly and segregated into biodegradable and non-biodegradable waste. The solid waste will be disposed of as per Solid Waste Management Rules, 2016. (ii) 4 TPD of slag is being generated from the existing industrial unit and after expansion; it is estimated to be 11 TPD out of which 2.2 TPD metal will be recovered and the remaining 8.8 TPD will be sold to M/s SH Infrastructure for manufacturing of ready-mix concrete.		
16.	Population (when fully operational)	Existing Manpower: 60 persons After expansion: 80 persons		
17.	Breakup of Water Requirements & source in Operation Phase (Summer, Rainy, Winter): The existing water requirement of the project was 20 KLD. However, after expansion, total water requirement for the project will be 90 KLD. The break-up of the same is given as under:			

Sr. No	Description	Existing water demand (KLD)	Proposed water demand (KLD)	Total water demand (KLD)		
1.	Domestic water demand	3	1.5	4.5		
2.	Make up water demand for cooling purpose	16	28.5	44.5		
3.	Green area water demand	1	40	41		
Total		20	70	90		
Sources of water:						
S. No.	Purposes	Source of water				
1.	Domestic	Ground water				
2.	Make-up water demand for cooling	Ground water + Treated wastewater from STP				
3.	Flushing purposes	Nil				
4.	Green area water demand	Ground Water				
18.	Disposal arrangement of wastewater in Operation Phase	After expansion, 3.6 KLD of domestic wastewater will be generated which will be treated in the STP of capacity 5 KLD to be installed within project premises. Further, no industrial effluent will be generated.				
19.	Revised Rain water recharging proposal along with NOC from Sarpanch	<p>(i) The project falls in the over- exploited zone.</p> <p>(ii) No rain water recharging pit will be proposed within the project site.</p> <p>(iii) 76,115m³ per annum of rain water will be recharged against the abstraction of ground water @ 86.5 KLD by adopting three ponds in the Villages Tooran, Saliyani, Jasran. Thus, the quantity of recharging will be double of the ground water withdrawal.</p> <p>(iv) As an additional safety measure, the stream carrying waste water of the villages shall be diverted in one corner of the Phytoid plants trench (designed based on the technology developed by CSIR-NEERI's) divided into different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to the purification of water.</p>				
20.	Hazardous Waste & E-Waste	The details of the hazardous waste generated is given below:				
		Sr. No	Description	Existing	Proposed	Total
		1.	Used oil	-	0.20 KL/annum	0.20 KL/annum
		2.	APCD dust	0.02 TPD	1 TPD	1.02 TPD
		Disposal				
		(i) For APCD dust, an agreement has been made with M/s Madhav Alloys Pvt. Ltd.				

		(ii) E-waste will be disposed off as per the E-waste Management Rules,2018.				
21.	Energy requirements & saving	The details of the energy are given below:				
		Sr. No	Description	Existing	Proposed	Total
		1.	Power load	8,249.783K W	4,000 KW	12,249.783 KW
		2.	D.G sets	1 No. 125 KVA	1 No. 125 KVA	2 No. 125 KVA
		Energy-saving measures to be adopted within the industry are given below: a) LEDs will be used in place of CFL. b) Energy-efficient Induction Furnaces will be installed.				
22.	Environment Management Plan along with Budgetary break-up phase wise and responsibility to implement	Project proponent submitted a revised EMP plan on 23.06.2020 for the construction phase & operation phase. Rs. 125 lakhs allocated for construction phase & Rs. 11.5 lakhs allocated for the operation phase as a recurring cost for the implementation of EMP. The detail of the same is as under:				
		Sr. No	Environmental Protection Measures	Capital Cost (Rs.in lakhs)	Recurring Cost (Rs. In lakhs/year)	
		1.	Air Pollution Control (Installation of APCD)	100	0.5	
		2.	Water Pollution Control (STP)	10	2.0	
		3.	Noise Pollution Control (Including the cost of landscaping & green belt)	4.5	1.5	
		4.	Solid Waste Management	2.5	1.0	
		5.	Environment Monitoring Management	3.0	5.0	
		6.	Health, Safety & Risk	3.0	0.5	
		7.	Rain Water Recharging outside the project premises	1.0	0.5	
		8.	Miscellaneous	1.0	0.5	
Total			125	11.5		
23.	Corporate Environment Responsibility (CER) activities					

Project Proponent submitted revised CER activities on 23.06.2020 along with budgetary break. Mr. Rajesh Kumar Mittal (Partner) of M/s Punjab Steels will be responsible for the implementation of CER. Rs. 14.60 Lakhs will be spent on the following CER activities as per Office Memorandum of CER dated 01.05.2018:				
Sr. No.	Activities	Total Expenditure (in lakhs)	Timeline (Starting from date of grant of EC)	Total Expenditure in 1 Year (in lakhs)
1.	Constructing two toilets, Interlocking tiling of village roads, Plantation in common areas and provision of water coolers in village Tooran.	14.6	1 year	14.6

SEAC made certain observations to which project proponent replied as under:

Sr.No.	Query	Reply submitted
1.	APCD to be provided for both induction furnaces and rolling mill. Project cost to be revised based on cost of APCD.	<p>APCD in the form of compartmentalized Pulse-Jet Bag Filter (offline cleaning) with a spark arrestor and ID Fan will be provided on the Induction furnace.</p> <p>Feasibility design report for APCD of two induction furnaces of 15 TPH each approved by PSCST has been submitted.</p> <p>CCM has already been provided within the industry, thus, direct rolling will be done after passing Billets through the CCM. Thus, there is no requirement of providing separate APCD on the rolling mill.</p> <p>The cost of APCD for Induction furnace has already been included in the total project cost.</p> <p>An online monitoring system will be provided to the APCD and there will be the provision of sampling at the</p>

		inlet/outlet of APCD. An undertaking submitted in this regard was taken on record by the SEAC.
2.	Agreement with M.C. for use of treated waste water for industrial purposes as the unit is located in the notified zone.	The project proponent submitted that the project falls in the notified area. Thus, water requirements for domestic & green areas will be met through borewell for which application has already been submitted to the District Advisory Committee (DAC). Water demand for industrial purposes (41 KLD) will be met from the treated wastewater of STP of MC, Mandi Gobindgarh which is located at a distance of 2 km from the industry. Due to lock down in Mandi Gobindgarh, the project proponent submitted a letter issued by the MC, Mandi Gobindgarh to the effect that they have no objection to provide 41 KLD of treated wastewater for use by the industry but, the industry will have to make its own arrangements for transportation. The letter was issued by the MC on 30.06.2020 after the meeting within the two working days as decided by the SEAC, which was examined and taken on record.
3.	Trees should be provided in the green area as per the MoEF norms (1500 trees per hectare) and no shrubs should be taken into this account.	Project proponent submitted that 7430.76 sqm green area will be provided which comprises 33.05% of the total area. Total 1107 trees will be planted without accounting the shrubs in the industry.
4.	Rain water utilization proposal during Monsoons.	Rain water storage tank of total capacity 500 KL (i.e. 2 ×250 KL each) will be provided to store the rain water run off generated from the roof top (@ 245 m ³ /hours) during the monsoon season which will be utilized for cooling water, cleaning and land

		scaping purposes. A copy of the layout plan showing the location of two storage tanks was also submitted which was taken on record by the SEAC.
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The SEAC observed that the project proponent has provided adequate, satisfactory clarifications to the above-said observations raised by it.

4.0 Recommendations

After detailed deliberations, SEAC decided to award '**Silver Grading**' to the project proposal and forward to SEIAA with the recommendations to grant Environmental Clearance for expansion of its existing unit located at village Tooran, Amloh Road, Mandi Gobindgarh, District- Fatehgarh Sahib, Punjab by M/s. Punjab Steels as per the details mentioned in Form 2, EMP & subsequent presentation /clarifications made by the project proponent and with aforesaid salient features and conditions given as under:-

I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned Punjab Pollution Control Board.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority/competent authority concerned, in case of drawl of ground water and also in case of drawl of surface water required for the project. In case of non- grant of permission by CGWA for ground water abstraction, the industry

shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from competent authority. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

- vi. The project proponent shall comply with the siting criteria, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
- vii. The project proponent shall comply with the CLU conditions imposed by competent authority, if any.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall install a Manual system to carryout Continuous Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.

- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly.
- viii. Recycle and reuse of iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration should be ensured.
- ix. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- xii. Design and implementation of the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars should be ensured.

III. Water quality monitoring and preservation

- i. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- ii. The project proponent shall adhere to 'Zero Liquid Discharge'.
- iii. Sewage Treatment Plant of capacity 5 KLD shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off
- v. The project proponent shall practice rainwater harvesting to maximum possible extent. For this 3 village ponds having volume @ 14,322 m³ , 24,281 m³ , 12,140 m³ located at Village Tooran, Saliyani & Jasran respectively shall be adopted for desilting to recharge the water @ 76,115 m³/annum. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytoid plants trench (designed based on the technology developed by CSIR-NEERI's) divided in different parts, the overflow of each chamber shall be

allowed to enter into another chamber which will ultimately lead to purification of water and collected into pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.

- vi. The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

- i. Noise level survey shall be carried as per the prescribed guidelines and the report in this regard shall be submitted to the Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. The project proponent shall practice hot charging of slabs and billets/blooms as far as possible.
- ii. The project proponent shall provide solar power generation on rooftops of buildings, solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- iii. The project proponent shall provide the for LED lights in their offices and residential areas.

VI. Waste management

- i. Used refractories shall be recycled as far as possible.
- ii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iii. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- iv. Kitchen waste shall be composted or converted to biogas for further use

VII. Green Belt

- i) Green belt shall be developed in an area 7430.76 sqm (33 %) of the plant area with tree species in accordance with SEIAA guidelines. Total 1107 trees to be planted without accounting the shrubs. The greenbelt shall inter alia cover the entire periphery of the plant to the maximum extent. The industry shall ensure that most of the periphery shall be provided with green belt by removing the unwanted/non-productive structures already provided in the existing project near the boundary wall.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. 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, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The project proponent shall carry out the activities apart from CER activities and spent an amount as commuted during the public hearing as per the public hearing action plan.

IX. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the revised proposal for CER activities for spending atleast minimum amount of Rs.14.60 Lacs towards following CER activities:

S. No.	Activities	Total Expenditure	Timeline	Total Expenditure

1.	Constructing two toilets, Interlocking tiling of village roads, Plantation in common areas and provision of water coolers in village Tooran.	14.6 Lacs	1 year	14.6 Lacs
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However, CER activities shall strictly be in accordance with the activities listed out in the OM dated 01.05.2018 and as per the proposal submitted by the project proponent. The amount to be spent on CER activities shall be proportionate to the amount spent on project & such activities shall run parallel to the project execution. All the activities must be completed with the completion of the project.

- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions to all / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The Year-wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall spent minimum amount of Rs 125 Lacs towards the capital cost and Rs 11.5 Lacs/annum towards recurring cost including the Environmental monitoring cost for the implementation of EMP as proposed in the revised EMP plan. Year-wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-monthly Compliance Report.
- v. Self-environmental audit shall be conducted annually. Every three years third-party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.

X. Validity

- i. This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier

XI. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.

- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA /EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee and SEIAA.
- x. 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).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry and Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office and PPCB by furnishing the requisite data / information/monitoring reports.
- xv. 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 and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

XII. Additional Specific Conditions decided during the meeting of SEAC

- i. The project proponent shall install site suction hood followed by the Pulse-Jet bag filter with offline cleaning technology as APCD on the two Induction Furnaces of capacity 15TPH each.

- ii. The project proponent shall install 24x7 continuous online SPM monitoring system at the inlet & outlet of APCD to monitor and achieve the suspended particulate matter (SPM) emission standards as prescribed by CPCB/SPCB.
- iii. The project proponent shall submit monthly summary report of continuous stack emission (inclusive of data of continuous SPM monitoring at inlet & outlet of APCD before stack) and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. The project proponent shall obtain the permission from District Advisory Committee (DAC) for the abstraction of ground water from its two existing borewells to meet with the requirement of domestic and green areas.
- v. The project proponent will meet the water requirement for industrial purpose @ 41 KLD from the treated wastewater from STP of MC, Mandi Gobindgarh as proposed vide letter dated 30.06.2020.
- vi. The project proponent shall construct two water storage tank of capacity 250 KL each for collection of rainwater runoff generated from the rooftop during monsoon season within its premises.
- vii. The project proponent shall minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- viii. The project proponent shall reuse of cooling tower blowdown, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.
- ix. The project proponent shall reserve land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking. The area to be reserved by considering the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.
- x. The project proponent shall comply with the standard operating procedures and up-gradation of suction and control arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.

- xi. Whole of the vehicle movement area as well as the approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.
- xii. The vehicles to be used for loading/unloading purposes shall not be parked along the roadside to avoid traffic congestion and a dedicated parking place to be provided for the same.
- xiii. The project proponent shall adopt green technologies to conserve water and energy. Also, provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.
- xiv. The project proponent shall use natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.
- xv. The project proponent shall take necessary action w.r.t. the following: -
 - a) Recovery of iron from slag before disposing of it.
 - b) Identify the areas for utilization of slag in a scientific manner and its usage in cement/construction industry/road laying etc.

Meeting ended with a vote of thanks to the Chair.
