

**Proceedings of the 248<sup>th</sup> meeting of the State Environment Impact Assessment Authority (SEIAA) held at 10:00 AM on 05.05.2023 (Friday) in Conference Hall No.02, 1<sup>st</sup>Floor, MGSIPA Complex, Sector-26, Chandigarh through Hybrid Mode.**

The meeting was attended by the following members:

1. Sh. H S Gujral,  
Chairman, SEIAA
2. Dr. Rupanjali Karthik, IAS,  
Member Secretary, SEIAA
3. Dr. Adarsh Pal Vig, Member SEIAA -cum-  
Chairman, Punjab Pollution Control Board, Patiala

Er. Nikhil Gupta, Deputy Director, DECC along with other supporting staff of SEIAA also attended the meeting.

**Item No. 01: Confirmation of the proceedings of the 246<sup>th</sup> and 247<sup>th</sup> meetings of the State Environment Impact Assessment Authority held on 13.04.2023 and 28.04.2023.**

SEIAA was apprised that the proceedings of its 246<sup>th</sup> meeting held on 13.04.2023 were circulated through email on 02.05.2023. Since no observations were received from any member regarding the proceedings, SEIAA confirmed the said proceedings as circulated. It was also informed that the proceedings 247<sup>th</sup> meeting of the Authority held on 28.04.2023 were under preparation and would be circulated shortly. SEIAA noted the same.

**Item No. 02: Action taken on the proceedings of 247<sup>th</sup> meeting of the State Environment Impact Assessment Authority held on 28.04.2023.**

SEIAA was apprised that the proceedings of its 247<sup>th</sup> meeting held on 28.04.2023 were being prepared and action taken report will be submitted in the next meeting of SEIAA.

**Item No. 248.04: Application for Environment Clearance for expansion in steel manufacturing unit at Village Nasrali, Guru Ki Nagri, Anaj Mandi-Bhadla Road, Nasrali, Near Power Grid, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab by M/s Kisco Castings (India) Ltd. (SIA/PB/IND1/423450/2023).**

The industry is an existing unit and was granted consent to operate under the provisions of the Water Act 1974 and Air Act 1981 for the manufacturing of steel ingots & castings@ 78 MTD.

The industry was granted Terms of References (TOR) vide letter number SEIAA/MS/2021/4345 dated 25.06.2021 for upgradation of 01 no. existing Induction Furnace of 6.5TPH capacity to 10TPH capacity and addition of 01 no. new Induction Furnace of 12 TPH capacity, Ladle Refining furnace, concast and a rolling mill with total production of Steel Ingots/billets, Steel Casting, rolled material etc. @ 1,00,100TPA.

The industry was thereafter granted amendment in Terms of Reference vide letter No. SEIAA/MS/2021/4785 dated 01.10.2021 for upgrading existing Induction Furnace of 6.5TPH capacity with 12TPH capacity induction furnace and installation of 1 no. new Electric Arc Furnace of 15TPH capacity, Ladle Refining Furnace (LRF), concast and a rolling mill. With such machinery, total 12 no. of heats can be taken in a day. Therefore, for working of 350 days, the total production of Steel Ingots/billets, Steel Casting, rolled material etc. will be 1,13,400TPA.

The total project cost is Rs 22.80 Crores. 25% of the fee, which comes out to be Rs. 57,000/- Rs.51, 975/- has been deposited vide NEFT no.- 000340638355 dated 01.05.2021, Rs. 5000 vide UTR no. N2255211601101047 dated 13.08.2021 and remaining 75% of fee i.e. Rs. 171025/- deposited on dated 06.12.2022. The adequacy of the fee has been verified by the supporting staff SEIAA.

Punjab Pollution Control Board vide letter No. 15595 dated 20.07.2022 forwarded comments w.r.t suitability of site, adequacy of pollution control equipment's and construction status etc. as under:

<b>Sr. No.</b>	<b>Information sought</b>	<b>Comments of the Board</b>
1.	Comments regarding suitability of site	As per DTP certificate no. 1153 dated 10/12/2020, the site of the industry falls in industrial zone as per the Notified Master Plan of Mandi Gobindgarh. Hence, the site is suitable for the installation of the proposed unit.
2.	Adequacy of pollution control equipment's	The industry has proposed to increase the production capacity pf steel ingots/ billets, steel castings, forging and rolled material from 27,300 TPA to 1,13,400 TPA by

		<p><i>upgrading its existing furnace of capacity 6.5 TPH with new induction furnace of capacity 12 TPH and by installing new electric arc furnace of capacity 15 TPH and rolling mill in addition to existing Ladle refining furnace (LRF), 3 no. annealing furnaces and concast machine.</i></p> <p><i>The industry has proposed to install bag filter house as APCD with its proposed induction furnace of capacity 12 TPH and arc furnace of capacity 15 TPH, separately. The industry has not submitted feasibility report of APCD form PSCST, Chandigarh. The industry is bound to obtain completion-cum- adequacy certificate from PSCST, Chandigarh before commissioning of the unit.</i></p>
3.	<i>Construction status</i>	<i>The industry has not started construction activity regarding the proposed expansion project.</i>
4.	<i>Green Area</i>	<i>The industry has proposed to develop 33% green area (4403.6 sqm) out of total area measuring 13278.3 sqm.</i>

**Deliberations during 245<sup>th</sup> meeting of SEAC held on 24.04.2023.**

The meeting was attended by the following:

- (i) Sh. Kuldeep Goel, Managing Director M/s Kisco Casting (India) Ltd.
- (ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
- (iii) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of the Promoter Company to present the reply before the Committee. Thereafter, the Environmental Consultant presented the salient features of the project as under:

<b>Sr. No.</b>	<b>Description</b>	<b>Details</b>
<b>1</b>	<b>Basic Details</b>	
1.1	Name of Project & Project Proponent:	M/s Kisco Castings (India) Ltd. Kuldeep Goel Director
1.2	Proposal:	
1.3	Location of Industry:	Village- Nasrali, Guru ki Nagri, Anaj Mandi- Bhadla road, Near Power Grid, Tehsil- Mandigobindgarh, District - Fatehgarh Sahib, Punjab
1.4	Details of Land area & Built up area:	The total land area is 3.06 Acres or 13278.3 m <sup>2</sup> . To meet the green belt requirement, an additional land measuring 4048.3 sqm has been acquired by the project proponent at a

		distance of 325 m from the project site. Out of which, 2259.2 sqm will be developed as greenbelt and 1789.1 sqm will be used as open space. Thus, greenbelt will be developed in total area of 4524.7 sqm.
1.5	Category under EIA notification dated 14.09.2006	The project falls under S.No. 3(a) – Metallurgical Industries
1.6	Cost of the project	Total – Rs 22.80 Cr.
1.7	Compliance of Public Hearing Proceedings	Detailed Action Plan along with timeline and Budget allocation is given as <b>Annexure I</b> .
<b>2.</b>	<b>Site Suitability Characteristics</b>	
2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	Yes, the site falls in approved existing Industrial zone
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	The project falls in Industrial area as per the Master Plan of Mandi Gobindgarh. The industry is an existing unit and has not proposed to increase area for carrying out expansion.
<b>3</b>	<b>Forest, Wildlife and Green Area</b>	
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No forest land is involved in the project. An undertaking in the prescribed format submitted.
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, the industry does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900. An undertaking in the prescribed format submitted.
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife sanctuary is involved in the vicinity or study area of the project site. An undertaking in the prescribed format submitted.

3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. (Specify the distance from the nearest Eco sensitive zone)	Not applicable			
3.6	Green area requirement and proposed No. of trees:	17% (2265.5 sqm) of total area i.e., 13278.3 sqm will be maintained as greenbelt. In addition, greenbelt will also be developed in land area of 2259.2 sqm at a distance of 325m from the project site. Thus, total greenbelt will be developed in an area of 4524.7 sqm (34% of total area) as per MoEF&CC stipulated norms will be developed as the green belt. A total of 680 trees needs be planted. Out of which 50 plants have already been planted. Thus, 630 trees need to be planted more.			
4.	<b>Raw material, Products and Machinery details are as under:</b>				
	<b>S.No.</b>	<b>PARTICULARS</b>	<b>EXISTING</b>	<b>PROPOSED</b>	<b>TOTAL</b>
	<b>A. PROPOSED CAPACITY OF FURNACES</b>				
1.	Induction Furnace	1X6.5TPH (Upgraded)	1X12 TPH	1X12 TPH	
2.	Electric Arc furnace	--	1X15 TPH	1X15 TPH	
3.	Ladle Refining Furnace(LRF)	01 x 7 TPH	--	01 x 7 TPH	
4.	Annealing Furnace (3 No.)	1x9TPD 1X8TPD 1X10TPD	--	1x9TPD 1X8TPD 1X10TPD	
5.	Concast	01 No.	--	01 No.	
	<b>B. PRODUCTS (TPA)</b>				
	Steel Ingots/Billets, Steel castings, Forging & rolled material	27,300 (Steel Ingots/billets, Steel castings)	86,100	1,13,400	

	<b>C.</b>	<b>RAW MATERIAL (TPA)</b>			
	1.	MS Scrap, CI, Sponge Iron, Ferro Alloys	28,875	94,675	1,23,550
	<b>D.</b>	<b>GENERALS</b>			
	1.	Project Cost (Crores)	Rs. 15.20	Rs. 7.60	Rs. 22.80
	2.	Land (Sqm.)	3.06 acre or 13,278.3 m <sup>2</sup>	Nil	3.06 acre or 13,278.3 m <sup>2</sup>
	3.	Power (MW)	3.5	7.5	11.0
	4.	DG Set	1x160 KVA (to be replaced)	1x 400 KVA	1x400 KVA
	4.	Manpower (Nos.)	224	26	250
	5.	Working days	350 working days in year		
4.1					
4.2	Population details	Existing Manpower – 224 Additional - 26 Total- 250			
<b>5</b>	<b>Water</b>				
5.1	Total water requirement:	71.5 KLD			
5.2	Source:	Own Tube Well			
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) Details thereof	Permission from PWRDA is already obtained vide letter no. PWRDA/07/2021/22/146 dated 14.07.2021. Permission for the same is submitted.			
5.4	Total water requirement for domestic purpose:	11.25 KLD			
5.4.1	Total wastewater generation:	Industrial Effluent – Nil Domestic wastewater – 9.0 KLD			
5.4.2	Treatment	No waste water is generated from the industrial operations.			

	methodology for domestic wastewater: (STP capacity, technology & components)	However, 9.0 KLD domestic waste water will be treated is STP of capacity 16 KLD and treated wastewater thereafter shall be used in landscaping and plantation.																																
5.5	Total water requirement	Total Water requirement- 71.25 KLD																																
5.5.1	Total effluent generation:	There are no generations of effluents from process.																																
5.5.2	Treatment methodology for industrial wastewater: (ETP capacity, technology & components)	NA																																
5.6	Details of utilization of treated wastewater into green area in summer, winter and rainy season	The wastewater generated from domestic will be treated through STP and will be used for plantation within premises.																																
5.7	<p>Cumulative Details: Water Consumption for Summer (KLD)</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Existing (KLD)</th> <th>Proposed (KLD)</th> <th>Total (KLD)</th> </tr> </thead> <tbody> <tr> <td>Domestic</td> <td>10.08 KLD</td> <td>1.17 KLD</td> <td>11.25 KLD</td> </tr> <tr> <td>Cooling (makeup water)</td> <td>20 KLD</td> <td>40 KLD</td> <td>60 KLD</td> </tr> <tr> <td>Total</td> <td>30.08 KLD</td> <td>41.17 KLD</td> <td>71.25 KLD</td> </tr> </tbody> </table> <p>Water Consumption for Winter &amp; Rainy (KLD)</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Existing (KLD)</th> <th>Proposed (KLD)</th> <th>Total (KLD)</th> </tr> </thead> <tbody> <tr> <td>Domestic</td> <td>10.08 KLD</td> <td>1.17 KLD</td> <td>11.25 KLD</td> </tr> <tr> <td>Cooling (makeup water)</td> <td>20KLD</td> <td>30 KLD</td> <td>50 KLD</td> </tr> <tr> <td>Total</td> <td>30.08 KLD</td> <td>31.17 KLD</td> <td>61.25 KLD</td> </tr> </tbody> </table>		Description	Existing (KLD)	Proposed (KLD)	Total (KLD)	Domestic	10.08 KLD	1.17 KLD	11.25 KLD	Cooling (makeup water)	20 KLD	40 KLD	60 KLD	Total	30.08 KLD	41.17 KLD	71.25 KLD	Description	Existing (KLD)	Proposed (KLD)	Total (KLD)	Domestic	10.08 KLD	1.17 KLD	11.25 KLD	Cooling (makeup water)	20KLD	30 KLD	50 KLD	Total	30.08 KLD	31.17 KLD	61.25 KLD
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5.8	Rain water harvesting proposal:	<p><b>Outside:</b> The industrial unit has adopted one village pond for rain water harvesting. The total recharge potential will be 52,500 KL/Annum. NOC obtained from Sarpanch is submitted.</p> <p><b>Inside:</b> - A tank of 12 KLD is proposed for inside rain water</p>																																

		harvesting using roof top of the project site.				
<b>6</b>	<b>Air</b>					
6.1	Details of Air Polluting Machinery and APCDs installed are as under:					
	<b>S.No.</b>	<b>Source</b>	<b>Existing</b>		<b>APCD</b>	
	1.	Induction Furnace	1X6.5TPH (to be upgraded)		Bag Filters	
	2.	Electric Arc Furnace	--			
	3.	Ladle Refining Furnace (LRF)	1x7 TPH			
	4.	Annealing Furnace (3 No.)	1x9TPD 1X8TPD 1X10TPD		Not required, as fuel used is PNG	
	5.	Concast Machine	01 No.		--	
	4.	DG Set	1X160KVA		Stack with adequate height	
	<b>AFTER EXPANSION</b>					
	<b>S.No.</b>	<b>Source</b>	<b>After Expansion</b>		<b>APCD</b>	
	1.	Induction Furnace	1x12 TPH (IF)		Pulse Jet Bag filters with offline Technology having efficiency more than 99.9%.	
	2.	Electric Arc furnace	1x15 TPH (EAF)			
	3.	Ladle Refining Furnace (LRF)	1x7 TPH			
	4.	Annealing Furnace (3No.)	1x9TPD 1X8TPD 1X10TPD		Not required, as fuel used is PNG	
	5.	Concast Machine	01 No.		--	
	6.	DG Set	1X400KVA		Stack with adequate height	
<b>7</b>	<b>Waste Management</b>					
7.1	Total quantity of solid waste generation	<b>Solid Waste</b>				
		<b>S.No.</b>	<b>Waste Category</b>	<b>Existing</b>	<b>After Expansion</b>	<b>Disposal</b>
		1.	Slag	3.0 TPD	16.8 TPD	Recovery of Iron - 0.20 TPD 16.6 TPD of slag after Iron recovery will be



						sent to M/s Asian Bricks Kiln for final disposal. (Agreement submitted, which is valid up to 13.02.2025)
7.2	Details of management and disposal of solid waste (Mechanical Composter/Compost pits)	Disposal of Solid waste will be as per MSW rules, 2016				
7.3	Details of management of Hazardous Waste.	<b>Solid/ Hazardous Waste</b>				
		<b>S.No.</b>	<b>Waste Category</b>	<b>Existing</b>	<b>After Expansion</b>	<b>Disposal</b>
		1.	35.1 Flue gas cleaning residue	0.017 TPD	1 TPD	The dust generated from APCD is being/will be stored in impervious pit and sent to M/s Nimbua Greenfield (Punjab) Limited for final disposal.
	2.	Used Oil	0.02 kl/annum	0.02 kl/annum	Will be used as lubricant within the industry	
<b>8</b>	<b>Energy Saving &amp; EMP</b>					
8.1	Power Consumption:	Existing – 3.5 MW Additional – 7.5 MW After Expansion – 11 MW				

		Source - Punjab State Power Corporation Limited, Punjab											
8.2	Energy saving measures:	LEDs have been proposed to be used instead of CFLs.											
9.	CER Activities	<p><b>CER activities</b>-Based on Public hearing issues the following CER activity will be carried out</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>CER Activity</th> <th>Timeline</th> <th>Budget allocation</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Rain water harvesting followed by construction of recharging wells and plantation in Adarsh Senior Secondary school, Mandi Gobindgarh</td> <td>Within one year after grant of EC</td> <td>Rs 23.0 Lakhs</td> </tr> </tbody> </table>				S. No.	CER Activity	Timeline	Budget allocation	1.	Rain water harvesting followed by construction of recharging wells and plantation in Adarsh Senior Secondary school, Mandi Gobindgarh	Within one year after grant of EC	Rs 23.0 Lakhs
S. No.	CER Activity	Timeline	Budget allocation										
1.	Rain water harvesting followed by construction of recharging wells and plantation in Adarsh Senior Secondary school, Mandi Gobindgarh	Within one year after grant of EC	Rs 23.0 Lakhs										
10.	<b>EMP BUDGET</b>												
	<b>S. No</b>	<b>Title</b>	<b>Capital Cost Rs. Lakh</b>	<b>Recurring Cost Rs. Lakh/Cost annum</b>	<b>Components of Capital &amp; Recurring Cost</b>	<b>Compliance of Environmental concerns raised during Public hearing</b>							
	1.	Air Pollution Control	110.0	50.0	<p><b>Capital:</b> Installation of fume extraction system, bag house, adequate stack height &amp; OCEMS, water sprinklers etc.</p> <p><b>Recurring:</b> Cost of stack monitoring &amp; maintenance</p>	To address concern no. 1,4 of public hearing							
	2.	Solid/ Hazardous Waste Management	10.0	10.0	<p><b>Capital:</b> Membership of TSDF &amp; storage areas for hazardous waste</p> <p><b>Recurring:</b> Cost of storage &amp; transportation of waste</p>	To address concern no. 3 of public hearing							

3.	Water pollution Control (installation of STP @ 16 KLD)	25.0	15.0	<b>Capital:</b> Installation of STP, Manpower Cost, Cost of Chemicals, Electricity <b>Recurring:</b> Water quality monitoring of STP, RWH, Treated water utilization	To address concern no. 2,3 of public hearing
4.	Green Belt development	6.80	6.80 (for three years)	<b>Capital:</b> Green Belt Development <b>Recurring:</b> Green Belt Maintenance	
5.	Noise Pollution Control	3.0	0.30	<b>Capital:</b> Installation of acoustic enclosure <b>Recurring:</b> Monitoring & Maintenance cost	
6.	Occupational Health, Safety and Risk Management	10.0	2.0	<b>Capital:</b> Occupational Health Centre & tie up for ambulance <b>Recurring:</b> Annual Health Checkup Cost & Work place monitoring	To address concern no. 3 of public hearing
7.	Environment Monitoring and Management	5.0	3.0	<b>Capital:</b> Installation of Ambient air monitoring stations <b>Recurring:</b> Environment monitoring	
8.	CER activities	23.0	--	Rain water harvesting followed by construction of recharging wells and plantation in Adarsh Senior Secondary school, Mandi Gobindgarh	To address concern no. 1 of public hearing
9.	Miscellaneous	4.0	---		

		TOTAL	196.8Lakh	87.1 Lakhs		
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**Annexure-I**

Sr. No.	Name & Address of the Person	Detail of query/ statement/ information / clarification sought by the person present	Reply of the query/statement information/clarification given by the Project Proponent	Action Plan	Budget allocation and Time Line
1.	Sh. Vishav Sharma S/o Sh. Harish Sharma, Student of Dia International School, Village Dadheri, Distt. Fatehgarh Sahib.	a) What are the social and environmental activities to be carried out by the industry?	Industry's Environment Consultant, R.S. Rana informed that the industry has already given financial help to improve the quality of sanitation in the schools of village Rattanheri, Dadheri and Bhadla. Further, the existing hospitals and Schools in the nearby areas will be strengthened and renovated for betterment of the general public.	Pond rejuvenation will be done as part of social and environmental activity	<b><u>Timeline-</u></b> Rejuvenation of pond will be started after grant of EC and it will be completed within one year.  <b><u>Budget allocation-</u></b> Rs 23.0 Lakhs has been kept for pond rejuvenation.
		b) Whether	The Environment	The nearest school is	<b><u>Timeline-</u></b>

		<p>increase in the production capacity of the industry will have affect on the health of the students of nearby school?</p>	<p>Consultant informed that the industry will install approved Air Pollution Control Device from Punjab State Council for Science &amp; Technology, Chandigarh, which will minimize the concentration of SPM to be released in atmosphere. Further, he informed that regular monitoring of the Air Pollution Control Device will be done to check adequacy and efficacy.</p>	<p>located at a distance of -200 m from the site of the unit. As per mathematical modeling of point sources of air pollution done with Aermod Dispersion model, the cumulative increase in the concentration of PM will be 4.17 <math>\mu\text{g}/\text{m}^3</math>, which is now 8.88 <math>\mu\text{g}/\text{m}^3</math> with the existing sources. Therefore, there will be reduction in the impact on the ambient air quality due to this unit from 8.88 <math>\mu\text{g}/\text{m}^3</math> to 4.17 <math>\mu\text{g}/\text{m}^3</math>. Thus, the proposal will improve the air quality of the area. As such, the new proposal will not have any impact on the health of the students as the ambient air quality will improve near the project site. The promoter of the company shall provide proper and adequate air pollution control devices to contain</p>	<p>Within 6 months after grant of EC and before commissioning of the plant.  <u>Budget Allocation –</u>  For APCD Capital Cost - Rs 500 Lakhs  Recurring Cost- RS 100 Lakhs</p>
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				the cone of SPM within the prescribed standards.	
2.	Smt. Samita Singla, Headmistress, Govt. High School, Village Dadheri, Distt. Fatehgarh Sahib.	What will be the effect the quality of the groundwater r with increase in the production capacity of the industry?	The Environment Consultant informed that the industry will install air containment system including side suction hood, spark arrestor followed by pulse bag house filter as air pollution control device, which will minimize the concentration of SPM to be released in atmosphere. Further, he informed that the industry is not a water polluting industry as there is no generation of effluent from process. Only domestic effluent will be generated which will be discharged onto land for plantation after treatment through septic tanks.	The industry is not generating any kind of industrial effluent and will not generate any kind of industrial effluent after carrying out expansion of the unit. The cooling water will be recycled and Domestic effluent will be treated in the STP and the treated Domestic Effluent will be utilized for irrigation of plantation area. As such, there will not be any effect on the ground water quality.	<p><b><u>Timeline-</u></b> An STP of Capacity 16 KLD will be installed before commissioning of expansion plan of the unit. Cooling tower is already existing to recirculate the cooling water.</p> <p><b><u>Budget Allocation-</u></b> Rs 25 lakhs as capital cost. Rs 15.0 Lakhs has been kept as recurring cost.</p>
3.	Sh. Balbir Singh, Ex-Sarpanch, Village Bhadla	a) Whether groundwater r quality will be effected with the expansion of	The Environment Consultant again informed that the industry is not a water polluting industry as there is no	The industry is not generating any kind of industrial effluent and will not generate any kind of industrial effluent	<b><u>Timeline-</u></b> An STP of Capacity 16 KLD will be installed before

		the industry?	generation of effluent from process. Only domestic effluent will be generated which will be discharged onto land for plantation after treatment through septic tanks.	after carrying out expansion of the unit. The cooling water will be recycled and Domestic effluent will be treated in the STP and the treated Domestic Effluent will be utilized for irrigation of plantation area. As such, there will not be any effect on the ground water quality.	commissioning of expansion plan of the unit. Cooling tower is already existing to recirculate the cooling water.  <b><u>Budget Allocation</u></b> Rs 25 lakhs as capital cost. Rs 15.0 Lakhs has been kept as recurring cost.
		b) Whether any job opportunities will be given to the unemployed people or not?	The Environment Consultant informed that with the expansion of the industry 26 more labour person will be required and the people of nearby villages will be given priority for jobs on the basis of their qualifications.	About 224 employees/workers are already working and most of them are of local areas. There will be requirement of additional 26 workers (skilled/semiskilled/non-skilled) for the expansion plan, who will be employed from the local areas.	Additional employment will be given before commissioning of the expansion plan of the unit.
		c) What will be the	The Environment Consultant, R.S. Rana	There will be generation of	<b><u>Timeline –</u></b>

		<p>disposal of the waste to be generated from the industry?</p>	<p>informed that there will be generation of hazardous waste (APCD dust), which will be sent to M/s Madhav Alloys Recycling unit for recovery of zinc metal.</p>	<p>following solid wastes:  a) Slag @ 16.6TPD, which will be given to M/s Asian Brick klins.  b) APCD Dust@ 1.0TPD, which will be given to M/s Nimbua Greenfield (Punjab) Limited.  c) Used oil @ 0.02 KL/A, which will be given to the registered recyclers.</p>	<p>The management of these waste will be done as soon as their generation is started.  <b><u>Budget allocation-</u></b>  Rs 10 Lakhs has been kept as capital cost Rs 10.0 lakhs as recurring cost.</p>
		<p>d) What safety measures will be taken for the labour of the industry?</p>	<p>Labour persons involved near the induction furnace will be provided heat resistance goggles, safety shoes and gloves to protect them from high intensity heat.</p>	<p>We will take the following safety measures for the labors:  a) It will be mandatory for every worker to wear PPEs, such as goggles, safety shoes and gloves etc, which will be provided by the industry.  b) Regular health checks up of the workers will be got done.  c) All safety as redesigned made the factories Act, 1948 will be put in place.</p>	<p><b><u>Timeline-</u></b>  Compliance of all these safety measures will be ensured at all the times.  <b><u>Budget allocation</u></b>  Rs 10.0 lakhs has been capital as capital cost for occupational health safety.  Rs 2.0 lakhs as recurring</p>



					cost.
4.	Sh. Anmol Singh, Village Dadheri, Distt Fatehgarh Sahib.	What will be effect on the air quality with the expansion of the industry?	The Environment Consultant informed that the industry will install air containment system including side suction hood, spark arrestor followed by pulse bag house filter as air pollution control device, which will keep the concentration of SPM within permissible limits.	The nearest school is located at a distance of -200 m from the site of the unit. As per mathematical modeling of point sources of air pollution done with Aermod Dispersion model, the cumulative increase in the concentration of PM will be 4.17 µg/m <sup>3</sup> , which is now 8.88 µg/m <sup>3</sup> with the existing sources. Therefore, there will be reduction in the impact on the ambient air quality due to this unit from 8.88 µg/m <sup>3</sup> to 4.17 µg/m <sup>3</sup> . Thus, the proposal will improve the air quality of the area. As such, the new proposal will not have any impact on the health of the students as the ambient air quality will improve near the project site. The promoter of the company shall provide proper and adequate air	<b><u>Timeline-</u></b> Within 6 months after grant of EC and before commissioning of the plant. <b><u>Budget</u></b> <b><u>Allocation –</u></b> For APCD Capital Cost - Rs 500 Lakhs Recurring Cost- RS 100 Lakhs

				pollution control devices to contain the cone of SPM within the prescribed standards.	
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During meeting, the Committee perused the action plan prepared by the industry to address the queries raised by general public during the public hearing and observed that Sh. Vishav Sharma, Village Dadheri, District Fatehgarh Sahib asked the industry that whether the increase in the production capacity of the industry shall have an effect on health of the students of nearby school.

In this regard, the industry apprised the Committee that the mathematical modelling was done through AEROMOD dispersion model by considering SPM standard of 50 mg/Nm<sup>3</sup> for the proposed project against the existing prescribed SPM emission standard of 150 mg/Nm<sup>3</sup>. The SPM emission standard of 50 mg/Nm<sup>3</sup> will be achieved by installing pulse jet bag filter by using PTFE membrane with offline cleaning technology and by providing 540 bags in APCD of induction furnace and 1050 bags in APCD for Electric Arc Furnace. Therefore, there is reduction in the concentration of PM level. Further, the industry will install online monitoring system at the inlet as well as the outlet of each APCD for monitoring the SPM. The industry also submits an undertaking in this regard. The Committee took a copy of the said undertaking on record. The Committee asked the project proponent to provide 2 rows of broad leaf trees along the boundary wall of the industry facing the school for protection of ambient air quality and to control the noise. The project proponent agreed to provide the same.

The Committee further perused the layout plan of the industry which was earmarked with the green area of about 17 % of total area to be developed within the premises of the industry. The Committee asked the industry to increase the green cover to mitigate noise and air pollution. The industry agreed to increase the green area from 17% to 19%.

The Committee further observed that in the EIA report, somewhere it has been mentioned that the septic tank for treatment of effluent shall be installed and somewhere, it has been mentioned that STP will be installed. The industry was asked to clarify as to whether STP shall be installed or septic tank shall be constructed to treat the domestic effluent. In this regard, the industry apprised the Committee that the septic tank shall be installed for the treatment of domestic effluent.

The Committee further observed that the industry has proposed to construct 12 KL tank inside the industry to carry out rain water harvesting. In this regard, the Committee observed that the toxic fumes in form of metal oxide, being settled on the roof of the industry, may cause ground

water contamination during rain water harvesting. The Committee asked the industry not to carry out the rainwater harvesting within the industry. The industry agreed to the same.

The Committee was satisfied with the presentation given by the industry and after deliberations, decided to award '**Silver Grading**' to the project proposal under category B1, Activity 3(a) and to recommend the application to SEIAA for the establishment of New Steel manufacturing unit for expansion in steel manufacturing unit at Village Nasrali, Guru Ki Nagri, Anaj Mandi-Bhadla Road, Nasrali, Near Power Grid, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab subject to the following special conditions besides standard conditions:-

- (i) The project proponent shall provide 2 rows of broad leaf trees along the boundary wall facing the school for protection of the air environment.
- (ii) The project proponent shall provide Noise Reflector Sheets on the wall facing towards the school for control of noise pollution.
- (iii) The industry shall develop and maintain green area proposed to be develop outside the premises of the industry for the entire period for which Environmental Clearance is granted.

#### **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 withdrawal of groundwater and also in case of use 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 the 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 the competent authority, if any.

## **II. Air quality monitoring and preservation**

- i. The project proponent shall install 24x7 continuous emission monitoring system at the inlet as well as at the outlet (stack) of each APCD to monitor the SPM concentration with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31<sup>st</sup> March, 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7<sup>th</sup> December, 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these systems 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 carry out Manual Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> 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 the 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 the 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. 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.
- iii. The project proponent shall practice rainwater harvesting to the maximum possible extent. For this, 1 no. of pond at Village Dadheri, District Fatehgarh Sahib shall be adopted to recharge the water. 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 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 and collected into the 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.
- iv. 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.
- iv. The Project Proponent shall practice hot charging of slabs and billets/blooms as far as possible.

**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 of 4791.2 Sqm (equal to 36% of the plant area) with native tree species in accordance with SEIAA guidelines. Total 680 tall saplings (minimum 6 feet height) of indigenous species such as Neem, Drek, Kusum, Kadam, Banyan, Peepal, Amaltas, Arjun, Chakarasiaetc will be planted.

**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 the public hearing as per the public hearing action plan.

#### **IX. Environment Management Plan**

- i. 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.
- ii. 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.
- iii. 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 will not be diverted for any other purpose. The project proponent shall spend a minimum amount of Rs 358.5 Lakhs towards the capital cost and Rs 49.10 Lakhs/annum towards recurring cost including the environmental monitoring cost for the implementation of EMP as proposed in application proposal.
- iv. Year-wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report 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 ten 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; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (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 SEAC and SEIAA.
- x. No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- xi. The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/ information/monitoring reports..

## **XII. Additional Conditions:**

- i. The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report.
- ii. The Project Proponent shall install online monitoring system at inlet as well as at the outlet of each APCD for monitoring SPM.
- iii. The Project Proponent shall submit compliance of the action plan proposed to address the public hearing issues along with the six-monthly compliance report of EC condition on Parivesh portal.

### **1.0 Deliberations during 248<sup>th</sup> meeting of SEIAA held on 05.05.2023**

The case was considered by SEIAA in its 248<sup>th</sup> meeting held on 05.05.2023 which was attended by the following:

- (i) Sh. Kuldeep Goel, Managing Director M/s Kisco Casting (India) Ltd.
- (ii) Sh. Sital Singh, and Sh. Sandeep Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.

Environmental Consultant presented the salient features of the project. A copy of the presentation submitted by project proponent was taken on record

SEIAA observed that the total area of the existing project premises is 13,278.30 sqm of which 33% (4381.74 sqm) is required to be maintained as permanent green area. Project proponent has informed that since only 2265.50 green area can be developed in the existing premises of the unit, additional land of 4048.3 sqm has been purchased outside the premises of the unit, at a distance of about 325m from the project premises out of which 2259.20 sqm would be developed as additional green area thus making 34 % green area for the composite plots. However, in response to a suggestion by SEIAA, project proponent volunteered that the entire area of 4048.3 sqm of the additional plot would be utilized for green area development. Thus, the total green area of the project will become 6313.8 sqm (2265.50 sqm + 4048.30 sqm) or 36.42% of the composite plots area of 17,326.60 sqm (13,278.3 sqm + 4,048.3 sqm) and 47.5% of the original (existing) plot area.

SEIAA noted that the proposal of the project proponent has been recommended by SEAC and that the green area would further increase to 36.42% of the composite area after inclusion of the entire additional area of 4048.30 sqm of the 2<sup>nd</sup> plot as green area.

In light of increase in the green area to be developed, the project proponent submitted revised Environment Management Plan as under:

S. No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh/Cost annum	Components of Capital & Recurring Cost
1.	Air Pollution Control	110.0	50.0	<b>Capital:</b> Installation of fume extraction system, bag house, adequate stack height & OCEMS, water sprinklers etc. <b>Recurring:</b> Cost of stack monitoring & maintenance
2.	Solid/ Hazardous Waste Management	10.0	10.0	<b>Capital:</b> Membership of TSDF & storage areas for hazardous waste <b>Recurring:</b> Cost of storage & transportation of waste
3.	Water pollution Control (installation of STP @ 16 KLD)	25.0	15.0	<b>Capital:</b> Installation of STP, Manpower Cost, Cost of Chemicals, Electricity <b>Recurring:</b> Water quality monitoring of STP, RWH, Treated

				water utilization
4.	Green Belt development	10.0	10.0 (For three years)	<b>Capital:</b> Green Belt Development <b>Recurring:</b> Green Belt Maintenance
5.	Noise Pollution Control	3.0	0.30	<b>Capital:</b> Installation of acoustic enclosure <b>Recurring:</b> Monitoring & Maintenance cost
6.	Occupational Health, Safety and Risk Management	10.0	2.0	<b>Capital:</b> Occupational Health Centre & tie up for ambulance <b>Recurring:</b> Annual Health Checkup Cost & Work place monitoring
7.	Environment Monitoring and Management	5.0	3.0	<b>Capital:</b> Installation of Ambient air monitoring stations <b>Recurring:</b> Environment monitoring
8.	Miscellaneous	4.0	---	
9.	Additional Environmental Activities	23.0	--	Rain water harvesting followed by construction of recharging wells and plantation in Adarsh Senior Secondary school, Mandi Gobindgarh
	<b>Total</b>	<b>200 lacs</b>	<b>90.3 lacs</b>	

SEIAA decided to accept the above revised EMP as submitted by the project proponent.

The Environmental Consultant of the industry also informed that there will be generation of dust from the Bag Filter House (APCD dust) to the tune of 1 TPD. The said dust falls under category 35.1 of the Schedule appended to the Hazardous Waste Rules, 2016. Earlier, as per the application, the industry had proposed to dispose of the said waste through the Treatment, Storage and Disposal Facility located at village Nimbua, Dera Bassi, SAS Nagar. However, the

proposal was revised at the time of presentation before SEAC in which it was proposed to treat and dispose the waste as per prescribed norms through M/s Jogindra Castings Pvt. Ltd., located at Mandi Gobindgarh. However, the revised proposal for disposal of the waste has not been reflected in the proceedings of SEAC. The project proponent also submitted a copy of the agreement made with the service provider i.e., M/s Jogindra Castings Pvt. Ltd. SEIAA found the request of the project proponent to be genuine and allowed the project proponent to dispose of the APCD dust through the service provider namely M/s Jogindra Castings Pvt. Ltd.

During discussions, the representative of the promoter company agreed to fully comply with all the conditions stipulated by SEAC. The SEIAA observed that the case stands recommended by SEAC and the Committee has awarded 'Silver Grading' to the project proposal. SEIAA looked into the details of the case and was satisfied with the same.

SEIAA was satisfied with the EIA report as submitted by the project proponent and the measures proposed for the control of pollution by the industry.

After detailed deliberations and scrutiny of relevant records and the amended EMP, SEIAA decided to accept the recommendations of SEAC and grant Environmental Clearance for expansion in steel manufacturing unit namely "Kisco Castings (India) Ltd." for upgrading the existing Induction Furnace of 6.5TPH capacity with 12TPH capacity induction furnace and installation of 1 no. new Electric Arc Furnace of 15TPH capacity, Ladle Refining Furnace (LRF), concast and a rolling mill at Village Nasrali, Guru Ki Nagri, Anaj Mandi-Bhadla Road, Nasrali, Near Power Grid, Mandigobindgarh, District Fatehgarh Sahib, (Punjab) as per the details mentioned in the application and subsequent presentation /clarifications made by the project proponent and his consultant with proposed measures and subject to conditions proposed by SEAC and additional condition as under:

**Amended Condition no. iii) of IX. Environment Management Plan**

- (i) 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 will not be diverted for any other purpose. The Revised EMP of the Project will be as under:

S. No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh/Cost annum
1.	Air Pollution Control	110.0	50.0
2.	Solid/ Hazardous Waste Management	10.0	10.0

3.	Water pollution Control (installation of STP @ 16 KLD)	25.0	15.0
4.	Green Belt development	10.0	10.0 (For three years)
5.	Noise Pollution Control	3.0	0.30
6.	Occupational Health, Safety and Risk Management	10.0	2.0
7.	Environment Monitoring and Management	5.0	3.0
8.	Miscellaneous	4.0	---
9.	Additional Environmental Activities	23.0	--
	<b>Total</b>	<b>200 lacs</b>	<b>90.3 lacs</b>

#### **Details of Additional Environmental Activities as proposed by industry**

<b>S. No.</b>	<b>Additional Environmental Activity</b>	<b>Timeline</b>	<b>Expenditure (In Lacs)</b>
1.	Rain water harvesting followed by construction of recharging wells and plantation in Adarsh Senior Secondary School, Mandi Gobindgarh	Within one year after grant of EC	Rs 23.0 Lacs

The entire cost of the environmental management plan will continue to be borne by the project proponent for the lifetime of the project. Year-wise progress of implementation of the action plan shall be reported to the Regional Office, MOEF&CC/ SEIAA along with the six-monthly compliance report.

The project proponent shall also submit physical/financial progress along with utilization certificates and documentary evidence (including photographs and short video clips) of the works undertaken regarding additional environmental activities by the project proponent in all the subsequent six-monthly compliance reports till the completion of these activities.

#### **Amended Condition no. iii) of III. Water quality monitoring and preservation**

(iii) The project proponent shall provide Rain Water Harvesting System followed by construction of recharging wells and plantation in Adarsh Senior Secondary School, Mandi Gobindgarh.

**Amended Condition no. i) of VII. Green Belt**

Green belt shall be developed in an area of 6313.8 sqm (including 4048.3 sqm of additional area of the 2<sup>nd</sup> plot) with native tree species in accordance with MoEF&CC guidelines. The project proponent shall plant tall saplings (minimum 8 feet height) of indigenous species such as Neem, Drek, Kusum, Kadam, Banyan, Peepal, Amaltas, Arjun, Chakarasia etc.

**Item no.248.05: Application for Environment Clearance for expansion in steel manufacturing unit namely M/s Belco Special Steels Pvt. Ltd at village Turan, Amlah Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab (Proposal No. SIA/PB/IND1/423731/2023).**

The industry is an existing steel rolling mill and was granted consent to operate under the provisions of the Water Act 1974 and Air Act 1981 for the manufacturing of alloy/non alloy steel bars @ 250 MTD (87,500 TPA). The Consents are valid up to 31.12.2026.

The industry was granted Terms of Reference under EIA notification dated 14.09.2006 vide letter No. SEIAA/MS/2021/4932 dated 14.12.2021 for manufacturing of Alloys Steel Bars @ 1,80,000 TPA by installing 2 Induction Furnaces of capacity 18 TPH each. The total area of the project is 41,824.27sqm. (10.33 acres or 4.18Ha.).

The industry has applied for Environmental Clearance for expansion under the EIA notification dated 14.09.2006. The industry is covered under category 3 (a) of the schedule appended with the EIA notification dated 14.09.2006. The total cost of the project is Rs.51.50 Cr.

The industry has submitted the online Form, Pre-feasibility report and other additional documents on online portal. He has also deposited fee of Rs. 1,28,750/- through UTR No. N225211600853398 dated 13.08.2021 at ToR stage and the remaining 75% of the fee i.e. Rs. 3,86,250/- vide UTR No. HDFCR52023030988729163 dated 09.03.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

Punjab Pollution Control Board vide letter No. 14384 dated 05.07.2022 forwarded comments w.r.t suitability of site, adequacy of pollution control equipment's and construction status etc. as under:

*"To check the construction status as asked by SEAC, the proposed project site was visited by A.E.E. of Regional Office, Fatehgarh Sahib on 26/08/2021 and has reported that the unit had obtained auto generated consent to establish (NOC) vide no. CTE/Fresh/FGS/2020/14583058 dated 21/12/2020 valid upto 21/12/2021 for setting up of PNG based rolling mill under medium scale green category for manufacturing of Alloy/ Non alloy Steel Bars @ 250 MTD, but the industry has not applied for obtaining consent to operate' for the said project. As per the representative of the industry, they have made the proposal for expansion of the project by including induction furnaces as per market demand and now they have applied for obtaining Environmental Clearance under EIA notification dated 14.09.2006 During visit, it was observed as under:*

<b>Sr. No.</b>	<b>Information sought by SEAC</b>	<b>Comments of the Board</b>
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1.	<i>Comments regarding suitability of site.</i>	<i>The site of the industry falls in the industrial zone as per Master Plan of Mandi Gobindgarh (2010-31). No specific siting guidelines have been framed by the Board for such type of units. Therefore, the site of the industry is suitable for the proposed project.</i>
2.	<i>Adequacy of pollution control equipment's.</i>	<p><i>Air Pollution- The Industry has proposed to install 2 no. Induction furnaces of capacity 15 TPH Each and 1 no. PNG based rolling mill. It has proposed to install side suction hood, Spark arrestor, Bag house and ID fan as APCD for the proposed induction Furnaces.</i></p> <p><i>Water Pollution – There will be no generation of trade effluent. However, domestic effluent @ 16 KLD to be generated and the same will be treated in STP of 20 KLD capacity. The treated water will be used for plantation/ Green area.</i></p> <p><i>Hazardous waste- The industry will generate hazardous waste of category 35.1 of Schedule-I about 1.5 TPD and 5.1 about 0.2 KL/ year, which will be disposed off to authorized recycler respectively as per Hazardous &amp; Other Waste (Management &amp; Transboundary Movement) Rules, 2016.</i></p>
3.	<i>Construction Status</i>	<i>The industry has not started any construction activity w.r.t. proposed expansion project. However, the industry is in-process of establishing PNG based rolling mill unit for which, it has obtained NOC vide no. CTE/ FREH/ FGS/2020/14583058 21/12/2020 valid upto 21/12/2021 as mentioned above. During visit, it was observed that it has constructed industrial shed and was in-process of installation of rolling mill machinery.</i>

**Deliberations during 245<sup>th</sup> meeting of SEAC held on 24.04.2023.**

The meeting was attended by the following:

- (i) Sh. Jagjit Singh, General Manager M/s Belco Special Steels Pvt. Ltd.
- (ii) Mr. Sandeep Garg, Environmental Consultant M/s Eco Laboratories Pvt Ltd.
- (iii) Mrs. Jyoti Rani, EC-Coordinator M/s Eco Laboratories Pvt Ltd.

The Committee allowed the Department & Environmental Consultant to present the salient features of the application proposals. Thereafter, the Environmental Consultant present the case as under:



Sr. No.	Description	Details
<b>1</b>	<b>Basic Details</b>	
1.1	Name of Project & Project Proponent:	M/s Belco Special Steels Pvt. Ltd. Dinesh Garg Director
1.2	Location of Industry:	Village Turan, Amloh Road, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab
1.3	Details of Land area & built-up area:	The total land area is 41,824.27 sq.m (10.33 acres).
1.4	Category under EIA notification dated 14.09.2006	The project falls under S.No. 3(a) – Metallurgical Industries
1.5	Cost of the project	Total – Rs 51.50 Cr.
1.6	Compliance of Public Hearing Proceedings	Detailed Action Plan along with timeline and Budget allocation is given as <b>Annexure B</b> .
<b>2.</b>	<b>Site Suitability Characteristics</b>	
2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	Yes, the site falls in approved existing Industrial zone
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	The project falls in Industrial area as per the Master Plan of Mandi Gobindgarh. The industry is an existing unit having Rolling Mill & Reheating Furnace only and has not proposed to increase area for carrying out expansion.
<b>3</b>	<b>Forest, Wildlife and Green Area</b>	
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	Application submitted for Forest Clearance for approach road and presently, in process.
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, the industry does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900. Undertaking in the prescribed format submitted.

3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife sanctuary is involved in the vicinity or study area of the project site. Undertaking in the prescribed format submitted.			
3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. (Specify the distance from the nearest Eco sensitive zone)	Not applicable.			
3.6	Green area requirement and proposed No. of trees:	33.11% (13,847.58 sq.m) of total area will be developed as the green belt. A total of 2,077 trees will be planted.			
4.	Raw material, Products and Machinery details are as under:				
	<b>S.No.</b>	<b>PARTICULARS</b>	<b>EXISTING</b>	<b>PROPOSED</b>	<b>TOTAL</b>
	<b>A.</b>	<b>PROPOSED CAPACITY OF FURNACES</b>			
	1.	Induction Furnace	-	2X18 TPH each	2X18 TPH each
	2.	Reheating Furnace	1	--	1
	3.	Rolling Mill	1	--	1
	<b>B.</b>	<b>PRODUCTS (TPA)</b>			
		Alloy/Non-Alloy Steel Bars	87,500 TPA	92,500 TPA	1,80,000 TPA
	<b>C.</b>	<b>RAW MATERIAL (TPA)</b>			
	1.	Scrap & Ferro Alloys/ Steel Ingots/ Billets	94,500 TPA	102,060 TPA	1,96,560 TPA
	<b>D.</b>	<b>GENERALS</b>			
	1.	Project Cost (Crores)	Rs. 20.36	Rs. 31.14	Rs. 51.50
	2.	Land (Sqm.)	41,824.27 sq.m	Nil	41,824.27 sq.m
	3.	Power (MW)	2	13	15
	4.	DG Set	1 x 250 KVA	-	1 x 250 KVA

	4.	Manpower (Nos.)	150	290	440
	5.	Working days	350 working days in year		
4.1	Population details		Existing Manpower – 150 Additional - 290 Total- 440		
<b>5</b>	<b>Water</b>				
5.1	Total water requirement:		137 KLD		
5.2	Source:		Own Tube Well		
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) Details thereof		Application has been submitted to PWRDA for permission of groundwater extraction. Complete application set along with Annexures has been submitted. Further, no forest land is involved in the proposed land area of the industry.		
5.4	Total water requirement for domestic purpose:		20 KLD		
5.4.1	Total wastewater generation:		Industrial Effluent – Nil Domestic wastewater – 16 KLD		
5.4.2	Treatment methodology for domestic wastewater: (STP capacity, technology & components)		No wastewater is generated from the industrial operations. However, 16 KLD domestic waste water will be treated in STP of capacity 20 KLD based on MBBR technology and treated wastewater thereafter shall be used in cooling purpose.		
5.5	Total water requirement		Total Water requirement- 137 KLD		
5.5.1	Total effluent generation:		There are no generations of effluents from process.		
5.5.2	Treatment methodology for industrial wastewater: (ETP capacity, technology & components)		NA		
5.6	Details of utilization of treated wastewater into green area in summer, winter and rainy season		The wastewater generated from domestic will be treated through STP and will be used for cooling purpose within premises.		
5.7	Cumulative Details: Water Consumption for Summer (KLD)				
	<b>Description</b>		<b>Existing (KLD)</b>	<b>Proposed (KLD)</b>	<b>Total (KLD)</b>

	Domestic	10 KLD	10 KLD	20 KLD
	Cooling (makeup water)	5 KLD	36 KLD	41 KLD
	Green area	0	76 KLD	76 KLD
	<b>Total</b>	<b>15 KLD</b>	<b>122 KLD</b>	<b>137 KLD</b>
Cumulative Details: Water Consumption for Winter (KLD)				
	<b>Description</b>	<b>Existing (KLD)</b>	<b>Proposed (KLD)</b>	<b>Total (KLD)</b>
	Domestic	10 KLD	10 KLD	20 KLD
	Cooling (makeup water)	5 KLD	36 KLD	41 KLD
	Green area	0	25 KLD	25 KLD
	<b>Total</b>	<b>15 KLD</b>	<b>122 KLD</b>	<b>86 KLD</b>
Cumulative Details: Water Consumption for Monsoon (KLD)				
	<b>Description</b>	<b>Existing (KLD)</b>	<b>Proposed (KLD)</b>	<b>Total (KLD)</b>
	Domestic	10 KLD	10 KLD	20 KLD
	Cooling (makeup water)	5 KLD	36 KLD	41 KLD
	Green area	0	7 KLD	7 KLD
	<b>Total</b>	<b>15 KLD</b>	<b>53 KLD</b>	<b>68 KLD</b>
5.8	Rain water harvesting proposal:	<p><b>Outside:</b> The industrial unit has adopted one village pond for rain water harvesting. The total recharge potential will be 60,825 KL/Annum. NOC obtained from Sarpanch is submitted.</p> <p><b>Inside:</b> - 3 tanks of 50 KL are proposed for inside rain water harvesting using roof top of the project.</p>		
<b>6</b>	<b>Air</b>			
6.1	Details of Air Polluting Machinery and APCDs installed are as under:			
	<b>S.No.</b>	<b>Source</b>	<b>Existing</b>	<b>APCD</b>
	1.	Induction Furnace	--	--
	2.	Electric Arc Furnace	--	
	3.	Reheating Furnace	1	Not required, as fuel used is PNG
	4.	Concast Machine	--	--
	5.	DG Set	1 X 250 KVA	Stack with adequate height

<b>AFTER EXPANSION</b>						
<b>S. No.</b>	<b>Source</b>	<b>After Expansion</b>		<b>APCD</b>		
1.	Induction Furnace	2 x 18 TPH		Pulse Jet Bag filters with offline Technology having efficiency more than 99.9%.		
2.	Electric Arc furnace	--				
3.	Reheating Furnace	1		Not required, as fuel used is PNG		
4.	Concast Machine	01 No.		--		
5.	DG Set	1X250 KVA		Stack with adequate height		
<b>7</b>	<b>Waste Management</b>					
7.1	Total quantity of solid waste generation	<b>Solid Waste</b>				
		<b>S. No.</b>	<b>Waste Category</b>	<b>Existing</b>	<b>After Expansion</b>	<b>Disposal</b>
		1.	Slag	0	17 TPD	20% reused for metal recovery & remaining 80% will be given to M/s Shiva Tile Works for co-processing.
7.2	Details of management and disposal of solid waste (Mechanical Composter/Compost pits)	Disposal of Solid waste will be as per SWM Rules, 2016				
7.3	Details of management of Hazardous Waste.	<b>Solid/ Hazardous Waste</b>				
		<b>S. No.</b>	<b>Waste Category</b>	<b>Existing</b>	<b>After Expansion</b>	<b>Disposal</b>
		1.	Category 35.1 APCD dust	-	1.5 TPD	APCD dust will be given to M/s Madhav KRG Ltd.
		2.	Category 5.1 Used	-	0.2 KLA	Used oil given to authorised



		(Construction of storage tank for collection of runoff from college building)	
		8) 10 Street Lights	
		9) Curtains for Girls common room	0.75
		10) Big Size Inverter (2500 Watt)	0.10
		11) Compost Pit	0.15
		12) Repair of Generator set	0.20
			0.20
	3.	As per proceedings with Public hearing Aid for Cancer patients in coordination with Gram Panchayat of Village Tooran	15
		<b>Total</b>	<b>Rs. 51.5 Lakhs</b>

10.	<b>EMP BUDGET</b>			
	<b>S. No.</b>	<b>Environmental Protection Measures</b>	<b>Capital Cost (Rs. in lakhs)</b>	<b>Recurring Cost (Rs. in lakhs/year)</b>
	1.	Air Pollution Control (Installation, operation and maintenance of APCD and OCMS)	150	3
	2.	Water Pollution Control (Installation, operation and maintenance of STP of capacity 20 KLD)	20	1.5
	3.	Noise Pollution Control (Acoustic enclosure for DG set)	3	1
	4.	Green belt development and landscaping	21	7
	5.	Solid Waste Management (Management & disposal of domestic solid waste, slag and Hazardous waste)	3	0.5
	6.	Environment Monitoring & Management	3	5
	7.	Health, Safety & Risk Assessment (Medical check-up, ESI of workers,	2	1

	Masks, PPE Kits, Ear plugs)		
8.	Miscellaneous	2	0.5
<b>Total</b>		<b>Rs. 204 lakhs</b>	<b>Rs. 19.5 lakhs</b>

### Annexure B

S. No.	Name & address of the person	Detail of query/ statement/ information/ clarification sought by the person present	Reply of the query/ statement/ information/ clarification given by the project proponent	Action plan
1.	Mr. Rajwant Singh, President, Ekta Club, Village Tooran, Mandi Gobindgarh	As per the EIA study report, 440 workers will be working in the proposed plant/Industry, how the company has calculated water requirement for the said workers mentioned in the report. He further said that water was being misused by the washing of tractor at the entrance of the factory and he also asked which officer has prepared the EIA report.	Environment consultant has replied that the quantity of fresh water requirement is calculated as 121.5 KLD by considering average consumption of fresh water as 45 ltr/person/day. She further stated that the workers will work in the factory and they will leave the factory after working according to their shifts. She also said that there would be no water pollution in the proposed project. There will be only generation of domestic wastewater which will be discharged onto land for plantation after passing through septic tank.	The domestic water will be treated in STP of capacity 20 KLD and treated water will be reused for cooling purpose. Also, we have proposed rain water harvesting within project premises by collecting the runoff from rooftop area of the proposed sheds. This water shall be reused for horticulture/ sprinkling purpose at loading and un-loading areas. Thus, the industry shall strictly adhere to water conservation to the maximum extent. In addition to above, the amount of Rs. 25 lakhs has been proposed for pond rejuvenation under Corporate Environment Responsibility (CER).



2.	Mr. Sandeep Singh, Village Tooran, Mandi Gobindgarh, Distt. Fatehgarh Sahib	He stated that the industry has proposed its project in a large area but in spite of this, it has not made any plantation.	Environmental consultant replied that any construction activity in area will be carried out only after obtaining Environmental Clearance under EIA Notification 2006 and she assured to fulfill the condition of plantation before commissioning of the project, Further, Environmental Engineer, Punjab Pollution Control Board, Fatehgarh Sahib informed the public that as per the EIA notification, the industry cannot start any construction/development activity before obtaining Environmental clearance.	No action plan required.
3.	Mr. Satnam Singh, Former Sarpanch, Village Tooran, Mandi Gobindgarh, Distt. Fatehgarh Sahib	He stated that the ground water of village Tooran has become very poor, which leads to the spread of deadly diseases like cancer.	Environmental Consultant replied that the Industry will not generate any water pollution. Also, it will install STP for treatment of domestic effluent.	Monitoring of ground water has been done at project location and in 10 km study area. The ground water is suitable for drinking purpose and no heavy metal contamination detected. Although, industrial unit has proposed Rs. 15 lakhs under Corporate

				Environment Responsibility (CER) for aid of Cancer patients in coordination with Gram Panchayat of Village Tooran.
4.	Mr Inderjit Singh, Village Tooran, Mandi Gobindgarh, Distt. Fatehgarh Sahib	He stated that there would be bad impact of the industry on the nearby Government college and what measures will be taken by the industry to save society.	Environment Consultant replied that the Industry has proposed steel manufacturing unit by installing 2 no. Induction furnaces of capacity 18 TPH and 1 no. rolling mill. It has proposed to install side suction hood, spark arrester, Bag house and ID fan as APCD for Induction furnaces to control air pollution. She further mentioned that another unit in the name of M/s Behari Lal Ispat is also being run by the owners of the proposed project and in the CSR activities of said industry, free books and other kinds of social help is being provided to public and other required items are generally distributed in the nearby schools.	The industrial unit has proposed Rs. 11.5 lakhs under Corporate Environment Responsibility (CER) for providing various facilities to Jawahar Lal Nehru Govt. College as per their actual requirement. Also, plantation shall be developed along the project boundary with native species.
5.	Mr. Rajwant Singh,	He stated that whether the youth of	Environmental consultant replied that	The manpower requirement for the said

	<p>President, Ekta Club, Village Tooran, Mandi Gobindgarh</p>	<p>Village Tooran will get employment after commissioning of this project. He further questioned regarding disposal of waste generated from the proposed project.</p>	<p>the residents of nearby villages will be given employment on priority basis as per their qualifications/skills. Further, she replied that the industry will not generate any water pollution. Also, it will install STP for treatment of domestic effluent. And the proposed plant will sign an agreement with M/s Madhav KRG Environmental Solution (P) Ltd. for disposal of hazardous waste of category 35.1. Thereafter, Sh. Dinesh Garg, representative of industry said that they will have to spend Rs. 6.5 lacs for CSR activities. Apart from this, he has assured the public that whatever work will be required in the village, they will do the same after commissioning of project. He has also mentioned that they have planted green area in 18 Bighes Another project in the name M/s Behari Lal</p>	<p>unit will be 440 workers (including technical &amp; non-technical). Preference will be given to the people of nearby villagers as per their qualification and skills. Also, overall amount of Rs. 50.5 lakhs have been proposed under various Corporate Environment Responsibility (CER). Such as:</p> <ul style="list-style-type: none"> <li>• Rs. 25 lakhs for Rejuvenation of pond located in the Village Salani</li> <li>• Rs. 11.5 for providing various facilities to Jawahar Lal Nehru Govt. College as per their actual requirement.</li> <li>• Rs. 15 lakhs for aid of Cancer patients in coordination with Gram Panchayat of Village Tooran.</li> </ul>
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			Ispat and they have also constructed Seechewal Model village pond at village Salani.	
6.	Mr. Rajwant Singh, President, Ekta Club, Village Tooran, Mandi Gobindgarh	He stated that there are many cancer patients in the village that must be considered by proposed project. He further stated that Govt. is not taking action against the existing polluting industries.	Sh. Dinesh Garg, representative of the industry requested that the villagers to provide their suggestions/ demands in writing, so that they may incorporate the same in their CSR plan. He further assured that they will try to include the point raised by Sh. Rajwant Singh in the CSR plan of industry. He said that out of the income generated by the proposed industry, they will do their best for the welfare of the village and Environmental Engineer, Punjab Pollution Control Board, Fatehgarh Sahib informed that the Department is already taking action against the polluting units and also imposing them fine on the basis of Polluter Pays Principle.	Overall amount of Rs. 50.5 lakhs (@ 1% of the total project cost) have been proposed under various Corporate Environment Responsibility (CER). Such as: <ul style="list-style-type: none"> <li>• Rs. 25 lakhs for Rejuvenation of pond located in the Village Salani</li> <li>• Rs. 11.5 for providing various facilities to Jawahar Lal Nehru Govt. College as per their actual requirement.</li> <li>• Rs. 15 lakhs for aid of Cancer patients in coordination with Gram Panchayat of Village Tooran.</li> </ul>
7.	Mr. Malkeet Singh, Village	He stated that air pollution is being	Environmental Engineer, Punjab	No action required.

	AmbeyMajra, Mandi Gobindgarh	caused by the industries during night time and Punjab Pollution Control Board should increase night surveillance and to take stringent action against the polluting units.	Pollution Control Board. Fatehgarh Sahib informed that surprise checking of the industries during day and night hours is already being done and the officers have been assigned duties according to their area and they are also conducting surprise checking from time to time.	
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During meeting, the Committee observed that the industry has not submitted correct details of the production capacity in terms of existing, proposed and total after expansion and is required to revise the said details. In this regard, the industry submitted the revised details as under:

S. No.	Description	Existing	Proposed/ Additional	Total (After Expansion)
1.	<b>Project Area</b>	41,824.27 sq.m (10.33 acres)		
2.	<b>Rolling Mill</b>	250 TPD	264 TPD	514 TPD
3.	<b>Induction Furnace</b>	Nil	2 × 18 TPH (514 TPD)	2 × 18 TPH (514 TPD)
4.	<b>Continuous Casting Machine (CCM)</b>	Nil	1 No.	1 No.
5.	<b>Production capacity</b>	250 TPD with existing Rolling mill	264 TPD	514 TPD or 1,80,000 TPA
6.	<b>Raw materials</b>	270 TPD of Billets/Ingots*	562 TPD of Scrap & Ferro alloys	562 TPD of Scrap & Ferro Alloys
7.	<b>Products</b>	Alloys/Non-Alloys Steel Bars		

The Committee further observed that as per the application proposal, the industry has applied for obtaining permission for access road under the provisions of the Forest Conservation Act, 1980. In this regard, the industry apprised the Committee that Stage-1 Forest Clearance had

already been obtained for access road of area 0.0106 Ha and submitted a copy of letter dated 05.04.2023 addressed to Dy. Director General of Forests, Govt. of India by Secretary, Department of Forest & Wildlife in this regard. The Committee took a copy of the same on record.

The Committee perused the action plan prepared by the industry to address the queries raised by general public during public hearing and observed that Sh. Inderjit Singh, Village Tooran, alleged that there would be bad impact of the industry on the nearby Government college and what measures would be taken by the industry to save society. In this regard, the industry stated that APCD will be provided with the air polluting machinery. The Committee noted the same and asked the industry to provide noise reflector sheets on walls facing towards Jawaharlal Nehru Govt of College and include the cost of the same in the proposed CER activity. The industry agreed to the same and submitted the revised CER activities after incorporating the cost of the noise reflectors sheets in the CER as under:

<b>S. No.</b>	<b>Activities</b>	<b>Total Expenditure (in Lakhs)</b>
1.	<p><b>Rejuvenation of Village Pond</b> Adoption of pond located in Village Salani for rainwater harvesting and maintenance as per measures given below:</p> <ul style="list-style-type: none"> <li>v. Nano-Bubble technology to treat wastewater discharge into the pond</li> <li>vi. Tree plantation of 6 ft. size around the pond</li> <li>vii. Removal of solid waste, sludge, silt from the pond</li> <li>viii. Landscaping around the pond</li> </ul>	<b>25</b>
2.	<p><b>Education</b> Facilities to be provided in Jawahar Lal Nehru Govt. College as per their actual requirement:</p> <ul style="list-style-type: none"> <li>1) One Submersible Motor (10 HP)</li> <li>2) One Water cooler (100 L)</li> <li>3) 10 Wi-Fi cameras in campus area</li> <li>4) One printer set of HP</li> <li>5) 70 LED Tubes</li> <li>6) 20 Ceiling Fan</li> <li>7) Rainwater Harvesting System (Construction of storage tank for collection of runoff from college building)</li> <li>8) 10 Street Lights</li> <li>9) Curtains for Girls common room</li> <li>10) Big Size Inverter (2500 Watt)</li> </ul>	<p><b>11</b></p> <p>0.40</p> <p>0.40</p> <p>0.50</p> <p>0.25</p> <p>0.25</p> <p>0.30</p> <p>7.5</p> <p>0.75</p> <p>0.10</p>

	11) Compost Pit	0.15
	12) Repair of Generator set	0.20
		0.20
3.	<b>As per proceedings with public hearing</b> Aid for Cancer patients in coordination with Gram Panchayat of Village Tooran	<b>12</b>
4.	<b>Noise Reflector Sheets on walls facing towards Jawahar Lal Nehru Govt. College</b>	<b>4</b>
<b>Total</b>		<b>Rs. 52 Lakhs</b>

The Committee further observed that the industry has proposed to construct 3 tanks of 50 KL inside the industry to carry out rain water harvesting. In this regard, the Committee observed that the toxic fumes in form of metal oxides, being settled on the roof of the industry, may cause ground water contamination during rain water harvesting. The Committee asked the industry not to carry out the rainwater harvesting within the industry. The industry agreed to the same.

The Committee was satisfied with the presentation given by the industry and after deliberations, decided to award '**Silver Grading**' to the project proposal under category B1, Activity 3(a) and to recommend the application to SEIAA for expansion in steel manufacturing unit namely M/s Belco Special Steels Pvt. Ltd at village Turan, Amlah Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab subject to the following special conditions: -

**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 withdrawal of groundwater and also in case of use 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 the 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 the competent authority, if any.

## **II. Air quality monitoring and preservation**

- i. The project proponent shall install 24x7 continuous emission monitoring system at the inlet as well as at the outlet (stack) of each APCD to monitor the SPM concentration with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31<sup>st</sup> March, 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7<sup>th</sup> December, 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these systems 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 carry out Manual Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> 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 the 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 the 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. 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.
- iii. The project proponent shall practice rainwater harvesting to the maximum possible extent. For this, 1 no. of pond at Village Turan, District Fatehgarh Sahib shall be adopted to recharge the water. 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 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 and collected into the 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.

- iv. 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.
- iv. The Project Proponent shall practice hot charging of slabs and billets/blooms as far as possible.

#### **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 of 13847.58 Sqm with native tree species in accordance with SEIAA guidelines. Total 2077 tall saplings (minimum 6 feet height) of indigenous species such as Neem, Drek, Kusum, Kadam, Banyan, Peepal, Amaltas, Arjun, Chakarasia etc will be planted.

#### **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, crèche 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 the public hearing as per the public hearing action plan.

#### **IX. Environment Management Plan**

- i. 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.
- ii. 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.
- iii. 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 will not be diverted for any other purpose. The project proponent shall spend a minimum amount of Rs 358.5 Lakhs towards the capital cost and Rs 49.10 Lakhs/annum towards recurring cost including the environmental monitoring cost for the implementation of EMP as proposed in application proposal.

- iv. Year-wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report 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 ten 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; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sector all 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 SEAC and SEIAA.
- x. No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- xi. The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/ information/monitoring reports.

**XIII. Additional Conditions:**

- i. The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report.
- ii. The Project Proponent shall install online monitoring system at inlet as well as at the outlet of each APCD for monitoring SPM.
- iii. The Project Proponent shall submit compliance of the action plan proposed to address the public hearing issues along with the six-monthly compliance report of EC condition on Parivesh portal.

**1.0 Deliberations during 248<sup>th</sup> meeting of SEIAA held on 05.05.2023**

The case was considered by SEIAA in its 248<sup>th</sup> meeting held on 05.05.2023 which was attended by the following:

- (i) Sh. Jagjit Singh, General Manager M/s Belco Special Steels Pvt. Ltd.

(ii) Mr. Sandeep Garg, and Ms. Jyoti Rana, Environmental Consultant M/s Eco Laboratories Pvt. Ltd.

Environmental Consultant presented the salient features of the project. A copy of the presentation submitted by project proponent was taken on record.

SEIAA observed that most of the activities as proposed by the project proponent under the category of “*additional environment activities for amelioration of environment*” are actually CSR activities. Whereas the project proponent was free to carry out such activities under its CSR component, the activities which are proposed specifically for amelioration of environment must be relevant and be directly beneficial for the environment. To this observation, the project proponent submitted the revised Environment Management Plan including the additional environmental activities with details as under:

### **Environment Management Plan**

<b>S. No.</b>	<b>Environmental Protection Measures</b>	<b>Capital Cost (Rs. in lakhs)</b>	<b>Recurring Cost (Rs. in lakhs/year)</b>
1.	Air Pollution Control (Installation, operation and maintenance of APCD and OCMS)	150	3
2.	Water Pollution Control (Installation, operation and maintenance of STP of capacity 20 KLD)	20	1.5
3.	Noise Pollution Control (Acoustic enclosure for DG set)	3	1
4.	Green belt development and landscaping	21	7
5.	Solid Waste Management (Management & disposal of domestic solid waste, slag and Hazardous waste)	3	0.5
6.	Environment Monitoring & Management	3	5
7.	Health, Safety & Risk Assessment (Medical check-up, ESI of workers, Masks, PPE Kits, Ear plugs)	2	1
8.	Miscellaneous	2	0.5
9.	Additional Environmental Activities*	52	-
<b>Total</b>		<b>Rs. 256 lakhs</b>	<b>Rs. 19.5 lakhs</b>

### **Details of Additional Environmental Activities**

<b>S. No.</b>	<b>Activities</b>	<b>Expenditure (in Lacs)</b>
1.	<b>Rejuvenation of Village Pond</b> Adoption of pond located in Village Salani for rainwater harvesting and maintenance as per measures given below: ix. Nano-Bubble technology to treat wastewater discharge into the pond x. Tree plantation of 6 ft. size around the pond xi. Removal of solid waste, sludge, silt from the pond xii. Landscaping around the pond	<b>25</b>
2.	<b>Education</b> Facilities to be provided in Jawahar Lal Nehru Govt. College as per their actual requirement: i. Rainwater Harvesting System (Construction of storage tank for collection of runoff from college building) ii. 10 Solar Lights iii. Compost Pit	<b>11</b> <ul style="list-style-type: none"> <li>• 6</li> <li>• 2</li> <li>• 3</li> </ul>
3.	<b>As per proceedings with Public hearing</b> Aid for Cancer patients in coordination with Gram Panchayat of Village Tooran	<b>12</b>
4.	Noise Reflector Sheets on walls facing towards Jawahar Lal Nehru Govt. College	<b>4</b>
<b>Total</b>		<b>Rs. 52 Lakhs</b>

SEIAA decided to accept the above revised EMP submitted by the project proponent.

Keeping the recommendations of SEAC and the foregoing in view, a decision in principle was taken to grant EC to the Project as per recommendation and conditions of SEAC. However, after the departure of the project proponent and environmental consultant it came to the notice of SEIAA that an incorrect submission was made by them before SEAC in its 245<sup>th</sup> meeting held on 24.04.2023 that Stage 1 approval for diversion of forest land for the approach road to their project had been granted by the MOEF&CC. Relevant excerpt from the SEAC proceedings is as under:

*“The Committee further observed that as per the application proposal, the industry has applied for obtaining permission for access road under the provisions of the Forest Conservation Act, 1980. In this regard, the industry apprised the Committee that Stage-1 Forest Clearance had already been obtained for access road of area 0.0106 Ha and*

*submitted a copy of letter dated 05.04.2023 addressed to Dy. Director General of Forests, Govt. of India by Secretary, Department of Forest & Wildlife in this regard. The Committee took a copy of the same on record.”*

However, perusal of above referred letter dated 05.04.2023 reveals that, in fact, it is only a recommendation for grant of Stage 1 clearance made by the State Government to the Govt. of India whereas the actual permission is yet to be granted by the MOEF&CC.

Since Stage 1 approval under the FCA, 1980, is a mandatory requirement prior to the grant of EC, SEIAA decided that an ADS in this regard be raised on Parivesh portal and EC as above be granted only on receipt of the requisite Stage 1 approval under FCA, 1980.



**Item No. 248.06: Application for Environment Clearance for expansion in steel manufacturing unit at Village- Doraha, Rampur Road, Tehsil-Payal, District-Ludhiana, Punjab by M/s Saeco Strips Pvt. Ltd. (SIA/PB/IND1/421990/2023).**

The industry is an existing unit and was granted consent to operate under the provisions of the Water Act 1974 and Air Act 1981 for the manufacturing of agricultural implements @ 30 No./day which is valid upto 30.06.2025.

The industry was granted Terms of References (TOR) vide letter number SEIAA/2020/1841 dated 29.07.2020 for the manufacturing of 92,400 TPA of steel ingots/billets and 73100 of structural steel (round, coil, flats, wire rod, TMT bars) with one existing induction furnace of capacity 8 TPH and proposed induction furnace of capacity 15 TPH and CCM.

The total project cost is Rs 24.04 Crores. 25% of the fee, which comes out to be Rs. 60,100/- which has been deposited RTGS vide UTR No. C8INH9283139553 dated 10/10/2019 and remaining 75% of fee i.e Rs. 1,80,300 /- vide UTR No. CBINH23069800394 dated 10.03.2023. The adequacy of the fee has been checked & verified by the supporting staff SEIAA.

Punjab Pollution Control Board vide letter No. 5834 dated 07.03.2023 forwarded comments w.r.t suitability of site, adequacy of pollution control equipment's and construction status etc. as under:

*“The industry was visited by officer of Regional Office-2, Ludhiana on 27/01/2023 and reported as under:*

<b>Sr. no.</b>	<b>Information sought</b>	<b>Comments of the Board</b>
1.	Comments regarding suitability of site	<i>The existing of the industry falls in the industrial zone as per Master Plan of Ludhiana (2007-31). The industry has proposed expansion in the existing land. Hence, the site of the industry suitable for the proposed expansion project.</i>
2.	Adequacy of pollution control equipment's	<b>Air Pollution</b> - <i>The industry has proposed expansion of the existing steel manufacturing unit by installing one additional induction furnace of capacity 15 TPH and one concast unit. The industry has proposed to install Pulse jet Bag Filter as APCD with side hood technology as per design of PSCST Chandigarh with Industry furnace.</i> <b>Water Pollution</b> - <i>There will be no generation of trade effluent.</i>

		<p><i>It has proposed domestic effluent generation @ 7.5 KLD which will be treated in STP of 10.0 KLD capacity and further treated water will be used in Plantation/ Green area,. Cooling water shall be re-circulated through cooling tower.</i></p> <p><b>Hazardous waste-</b> <i>Used oil generated from DG set will be used as Lubricant within the industry. The dust generated from APCD (category 35.1) will be stored in covered storage with impervious flooring and sent to M/s Madhav Alloys, which is an authorized recycler. Hence the pollution control arrangement proposed by industry are principally adequate.</i></p>
3.	Construction status	<i>No construction has been done for expansion project No machinery for expansion project is arrived at site</i>
4.	Green Area	<i>The industry has total area of 27968.22 Square meter in the existing premises. The industry has submitted proposal of developing green area in 9243.68Sqr. mtr. In existing premises (i.e. 33.01% of total area of the project).</i>

**Deliberations during 245<sup>th</sup> meeting of SEAC held on 24.04.2023.**

The meeting was attended by the following:

- (i) Sh. Satish Sharma, Manager M/s Saeco Strips Pvt. Ltd.
- (ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
- (iii) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of the Promoter Company to present the reply before the Committee. The Environmental Consultant thereafter presented the case as under:

Sr. No.	Description	Details
<b>1</b>	<b>Basic Details</b>	
1.1	Name of Project & Project Proponent:	M/s Saeco Strips Pvt. Ltd. Sh. Davinder Singh (Director) Village-Doraha, Rampur Road, Tehsil-Payal, District-Ludhiana, Punjab
1.2	Proposal:	
1.3	Location of Industry:	Village-Doraha, Rampur Road, Tehsil-Payal, District-Ludhiana, Punjab

1.4	Details of Land area & Built up area:	27968.22 sqm
1.5	Category under EIA notification dated 14.09.2006	The project falls under S. No. 3(a) – Metallurgical Industries
1.6	Cost of the project	Total – Rs 24.04 Cr.
1.7	Compliance of Public Hearing Proceedings	Detailed Action Plan along with timeline and Budget allocation is given as <b>Annexure I</b> .
<b>2.</b>	<b>Site Suitability Characteristics</b>	
2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	Yes, the site falls in industrial zone as per the Master of Ludhiana.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	The site of the industry falls in Industrial area of Ludhiana. A copy of the land use classification letter issued by DTP Ludhiana vide no. 3748 dated 03.12.2019 submitted.
<b>3</b>	<b>Forest, Wildlife and Green Area</b>	
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No forest land is involved in the project. An undertaking in the prescribed format submitted.
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, the industry does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900. An undertaking in the prescribed format submitted.
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife sanctuary is involved in the vicinity or study area of the project site. An undertaking in the prescribed format submitted.
3.5	Whether the industry falls within the	Not applicable

	influence of Eco-Sensitive Zone or not. (Specify the distance from the nearest Eco sensitive zone)																																																																																											
3.6	Green area requirement and proposed No. of trees:	33% of total area as per MoEF&CC stipulated norms will be developed as the green belt. 2313 trees need to be planted. Out of which 1313 trees have already been planted. A total of 1000 trees will be planted.																																																																																										
<b>4.1</b>	<b>Raw material, Products and Machinery details are as under:</b>																																																																																											
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4.2	Population details	Existing Manpower – 90 Additional - 60 Total- 150																																																																																										
<b>5</b>	<b>Water</b>																																																																																											
5.1	Total water requirement:	61.5 KLD																																																																																										

5.2	Source:	Own Tube Well		
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) Details thereof	PWRDA Application is submitted.		
5.4	Total water requirement for domestic purpose:	7.5 KLD		
5.4.1	Total wastewater generation:	Industrial Effluent – Nil Domestic wastewater – 6.0 KLD		
5.4.2	Treatment methodology for domestic wastewater: (STP capacity, technology & components)	No waste water is generated from the industrial operations. However, 6.0 KLD domestic waste water will be treated in STP of capacity 10 KLD and treated wastewater thereafter shall be used in landscaping and plantation.		
5.5	Total water requirement	Total Water requirement- 61.5 KLD		
5.5.1	Total effluent generation:	There are no generations of effluents from process.		
5.5.2	Treatment methodology for industrial wastewater: (ETP capacity, technology & components)	NA		
5.6	Details of utilization of treated wastewater into green area in summer, winter and rainy season	The wastewater generated from domestic will be treated through STP and will be used for plantation within premises.		
5.7	Cumulative Details: Water Consumption for Summer (KLD)			
	<b>De scription</b>	<b>Existing (KLD)</b>	<b>Proposed (KLD)</b>	<b>Total (KLD)</b>
	Domestic	4.5	3.0	7.5

Cooling (makeup water)	8.0	46	54.0
<b>Total</b>	<b>12.5</b>	<b>49.0</b>	<b>61.5</b>

Water Consumption for Winter & Rainy (KLD)

Description	Existing (KLD)	Proposed (KLD)	Total (KLD)
Domestic	4.5	3.0	7.5
Cooling (makeup water)	8.0	15.0	23.0
<b>Total</b>	<b>12.5</b>	<b>18.0</b>	<b>30.5</b>

5.8	Rain water harvesting proposal:	<p><b>Outside:</b> The industrial unit has adopted one village pond for rain water harvesting. The total recharge potential will be 90,000KL/Annum. NOC obtained from Sarpanch is submitted. Further, all the waste water of nearby village which will be directed towards the village pond will be first treated in trenches through CSIR-NEERI's Phytoid waste water treatment technology and overflow water will be discharged into the pond.</p> <p><b>Inside:</b> -A tank of 18 KLD is proposed for inside rain water harvesting using roof top of the project site.</p>
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**6 Air**

6.1	Details of Air Polluting Machinery and APCDs installed are as under:			
<b>Existing</b>				
S. No.	Source	Existing	After Expansion	APCD
1.	Induction Furnace	1X8TPH	1X8TPH and 1X15 TPH	Pulse jet bag filter with offline technology having efficiency more than 99.9%.
2.	Reheating furnace	01No.	01 No.	Wet Scrubber
3.	CCM	Nil	01 No.	---
4.	DG Sets	1x82	--	Stack with adequate stack height

			KVA		
<b>7</b>	<b>Waste Management</b>				
7.1	Total quantity of solid waste generation	<b>Solid Waste</b>			
		<b>S. No.</b>	<b>Waste Category</b>	<b>After Expansion</b>	<b>Disposal</b>
		1.	Slag	12.6 TPD	Will be given to tiles manufacturing units under proper agreement for final disposal.
		<b>Slag agreement not submitted.</b>			
7.2	Details of management of Hazardous Waste.	<b>Solid/ Hazardous Waste</b>			
		<b>S. No.</b>	<b>Waste Category</b>	<b>After Expansion</b>	<b>Disposal</b>
		1.	35.1 Flue gas cleaning residue	0.03 TPD	Will be sent to M/s Madhav Alloys for final disposal.
		2.	Used Oil	0.015 kl/annum	Will be used as lubricant within the premises.
<b>8</b>	<b>Energy Saving &amp; EMP</b>				
8.1	Power Consumption:	Existing – 3999 KW Additional – 7001 KW After Expansion – 11000 KW Source - Punjab State Power Corporation Limited, Punjab			
8.2	Energy saving measures:	LEDs have been proposed to be used instead of CFLs.			
9.	CER Activities	<b>CER activities</b> -Based on Public hearing issues the following CER activity will be carried out			
		<b>S. No.</b>	<b>CER Activity</b>	<b>Timeline</b>	<b>Budget allocation</b>
		1.	Village Pond Rejuvenation (Rampur)	Within one year after grant of EC	Rs 24.0 Lakhs
10.	<b>EMP BUDGET</b>				
	<b>S. No</b>	<b>Title</b>	<b>Capital</b>	<b>Recurring Cost</b>	<b>Indicative basis for cost</b>

		<b>Cost Rs. Lakh</b>	<b>Rs. Lakh/Cost annum</b>	<b>estimate</b>
1.	Air Pollution Control	75.00	10.0	<b>Capital:</b> Installation of fume extraction system, bag house, adequate stack height & OCEMS etc. <b>Recurring:</b> Cost of stack monitoring & maintenance
2.	Water pollution Control (installation of STP @ 15 KLD)	10.0	0.60	<b>Capital:</b> Installation of STP, Manpower Cost, Cost of Chemicals, Electricity <b>Recurring:</b> Water quality monitoring of
3.	Green Belt development	10.0	23.13 (for three years)	<b>Capital:</b> Green Belt Development <b>Recurring:</b> Green Belt Maintenance
4.	Noise Pollution Control	0.30	0.02	<b>Capital:</b> Installation of acoustic enclosure <b>Recurring:</b> Monitoring & Maintenance cost
5.	Solid/ Hazardous Waste Management	5.50	0.70	<b>Capital:</b> Membership of TSDF & storage areas for hazardous waste <b>Recurring:</b> Cost of storage &
6.	Occupational Health, Safety and Risk Management	5.0	0.05	<b>Capital:</b> Occupational Health Centre & tie up for ambulance <b>Recurring:</b> Annual Health Check up Cost



	7.	Fire Safety	5.0	0.05	<b>Capital:</b> Fire Hydrant, detectors, protection & alarm <b>Recurring:</b> Emergency & Rescue Alarms & equipments, rescue
	8.	Miscellaneous	5.0	---	
	9.	<b>CER</b>	<b>24.0</b>	<b>--</b>	
		<b>TOTAL</b>	<b>139.8 Lakh</b>	<b>34.55 Lakhs</b>	

Sr. No.	Name & Address of the Person	Detail of query/ statement/ information/ clarification sought by the person present	Reply of the query/statement information/clarification given by the Project Proponent	Action Plan	Time Line
1.	Shri Makhan Singh resident of village Sahnewal	What are the constituents of hazardous waste, their hazardous characteristics and management practices proposed by the industry?	The Industry's environmental consultant stated that used oil and flue gas cleaning residue are the hazardous wastes generated by the industry. Due to the presence of heavy metals like Zn, Pb, Cr, Ni etc present in the APCD dust. They are toxic in nature as they can enter the food chain. The flue gas cleaning residue will be disposed off to approved processors of hazardous waste for recovery of metals, Whereas the used oil	All the hazardous waste will be managed as per Hazardous & other wastes (management & Transboundary Movement) Rules-2016.	The management practice is in vogue in the existing industry and the same will be followed after expansion comes into being.  <b><u>Budgetary Allocation-</u></b> For Hazardous Waste Rs. 5.50 lakhs has been kept as Capital cost and Rs. 0.70 lakhs as

			from DG Set will be used as lubricant within the industry.		recurring cost.
2.	Shri Mohinder Singh resident of Village Kanech	What are the solid waste generation and its management?	The industry's environmental consultant said that the high-volume waste which is not hazardous is furnace slag, which after recovery of Iron will be sold to manufacturers of cement, Concrete blocks, pavers and tiles etc.	Solid waste shall be managed as per swan rules.	Solid waste (furnace slag) shall be disposed off simultaneously with its generation and no storage will be done.  <b><u>Budgetary Allocation-</u></b> For Hazardous Waste Rs. 5.50 lakhs has been kept as Capital cost and Rs. 0.70 lakhs as recurring cost.
3.	Shri Harpreet Singh Gill resident of village Doraha	What is the likely impact on Air quality due to dust pollution from the Industry.	The Industry's environmental consultant replied that high quality Bag Filters having efficiency more than 99.9% with offline cleaning technology will be employed as APCD on Induction Furnace. Side suction hood will be used for the control of fugitive emissions. APCD will be operated and maintained as per SOP prescribed by the board. There will be	APCS will be installed simultaneously with the construction of project.	The APCS will be installed along with the construction of project & operational with the start of commercial production. Air quality will be monitored as per the EC/Consent conditions with the Environmental

			insignificant impact on the existing air quality after the coming into being of the proposed expansion.		data displayed prominently. <b><u>Budgetary Allocation-</u></b> For Hazardous Waste Rs. 75.0 lakhs has been kept as Capital cost and Rs. 10.0 lakhs as recurring cost.
4.	Shri Manpreet Singh resident of village Rampur	What are the employment provision for surrounding villages and social work to be undertaken by the industry for the welfare of the surrounding villages.	The industry's environmental consultant replied that based on the educational qualification and skills, local people will be employed for the proposed manpower requirement. The industry will undertake welfare activities in the area based on the resolutions passed by the concerned panchayat and those prescribed by SEIAA at the time of appraisal of the project.		Employment will be offered to locals with the start of construction work & continue during the project site or superannuation of the employee. The Industry has adopted a pond of village Rampur for Rejuvenation. <b><u>Budgetary Allocation-</u></b> Rs 24.0 lakhs has been kept for CER activities.

During meeting, the Committee perused the photographs of the green area developed by the industry and observed that the industry has planted saplings of average height less than 6 feet.

The Committee advised the industry to plant saplings of at least 6 feet height and asked the industry to revise the EMP accordingly. The industry agreed to the same and revise the details of the EMP activities as under:

S. No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh/Cost annum	Components of Capital & Recurring Cost	Compliance of Environmental concerns raised during public hearing
1.	Air Pollution Control	75.00	10.0	<b>Capital:</b> Installation of fume extraction system, bag house, adequate stack height & OCEMS etc. <b>Recurring:</b> Cost of stack monitoring & maintenance	To address concern no. 3 of public hearing
2.	Solid / Hazardous Waste Management	5.50	0.70	<b>Capital:</b> Membership of TSDF & storage areas for hazardous waste <b>Recurring:</b> Cost of storage & transportation of waste	To address concern no. 1 & 2 of public hearing
3.	Water pollution Control (installation of STP @ 15 KLD)	10.0	0.60	<b>Capital:</b> Installation of STP, Manpower Cost, Cost of Chemicals, Electricity <b>Recurring:</b> Water quality monitoring of STP, RWH, Treated water utilization	
4.	Green Belt development	24.0	24.0 (for three years)	<b>Capital:</b> Green Belt Development <b>Recurring:</b> Green Belt Maintenance	
5.	Noise Pollution Control	0.30	0.02	<b>Capital:</b> Installation of acoustic enclosure <b>Recurring:</b> Monitoring & Maintenance cost	

6.	Occupational Health, Safety and Risk Management	5.0	0.05	<b>Capital:</b> Occupational Health Centre & tie up for ambulance <b>Recurring:</b> Annual Health Checkup Cost & Work place monitoring	
7.	Fire Safety	5.0	0.05	<b>Capital:</b> Fire Hydrant, detectors, protection & alarm <b>Recurring:</b> Emergency & Rescue Alarms & equipments, rescue vehicles	
8.	Rain water harvesting	10.0	0.10	<b>Capital:</b> Construction of storage tank <b>Recurring:</b> Maintenance	
9.	CER activities	24.0	--	Rejuvenation of pond of village- Rampur by converting existing pond into:- Screen chamber Oil & grease trap Grit chamber Anerobic pond Facultative pond Polishing pond	To address concern no. 4 of public hearing
10.	Miscellaneous	5.0	---		
<b>Total</b>		<b>163.8</b>	<b>35.52</b>		

The Committee further observed that the industry has proposed to construct tank of 18 KL inside the industry to carry out rain water harvesting. In this regard, the Committee observed that the toxic fumes in form of metal oxide, being settled on the roof of the industry, may cause ground water contamination during rain water harvesting. The Committee asked the industry not to carry out the rainwater harvesting within the industry. The industry agreed to the same.

The Committee was satisfied with the presentation given by the industry and after deliberations, decided to award '**Silver Grading**' to the project proposal under category B1, Activity 3(a) and to recommend the application to SEIAA for expansion in steel manufacturing unit at Village-Doraha, Rampur Road, Tehsil-Payal, District-Ludhiana, Punjab subject to the following special conditions: -

**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 withdrawal of groundwater and also in case of use 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 the 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 the competent authority, if any.

**II. Air quality monitoring and preservation**

- i. The project proponent shall install 24x7 continuous emission monitoring system at the inlet as well as at the outlet (stack) of each APCD to monitor the SPM concentration with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31<sup>st</sup> March, 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7<sup>th</sup> December, 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these systems 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 carry out Manual Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> 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 the 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 the 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. 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.
- iii. The project proponent shall practice rainwater harvesting to the maximum possible extent. For this, 1 no. of pond at Village Doraha, District Ludhiana shall be adopted to recharge the water. 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 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 and collected into the 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.
- iv. 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.
- iv. The Project Proponent shall practice hot charging of slabs and billets/blooms as far as possible.

#### **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 of 9243.78 Sqm (equal to 33% of the plant area) with native tree species in accordance with SEIAA guidelines. Total 2313 tall saplings (minimum 6 feet height) of indigenous species such as Neem, Drek, Kusum, Kadam, Banyan, Peepal, Amaltas, Arjun, Chakarasiaetc will be planted.

#### **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, crèche 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 the public hearing as per the public hearing action plan.

#### **IX. Environment Management Plan**

- i. 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.
- ii. 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.
- iii. 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 will not be diverted for any other purpose. The project proponent shall spend a minimum amount of Rs 358.5 Lakhs towards the capital cost and Rs 49.10 Lakhs/annum towards recurring cost including the environmental monitoring cost for the implementation of EMP as proposed in application proposal.
- iv. Year-wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report 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 ten 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; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sector all 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 SEAC and SEIAA.
- x. No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- xi. The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/SEAC members nominated for the purpose shall monitor compliance of the stipulated

conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/ information/monitoring reports..

**XIV. Additional Conditions:**

- i. The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report.
- ii. The Project Proponent shall install online monitoring system at inlet as well as at the outlet of each APCD for monitoring SPM.
- iii. The Project Proponent shall submit compliance of the action plan proposed to address the public hearing issues along with the six-monthly compliance report of EC condition on Parivesh portal.

**1.0 Deliberations during 248<sup>th</sup> meeting of SEIAA held on 05.05.2023**

The case was considered by SEIAA in its 248<sup>th</sup> meeting held on 05.05.2023 which was attended by the following:

- (i) Sh. Satish Sharma, Manager M/s Saeco Strips Pvt. Ltd.
- (ii) Sh. Sital Singh, Environmental Consultant and Sh. Sandeep Singh, M/s. Chandigarh Pollution Testing Laboratory.

Environmental Consultant presented the salient features of the project. A copy of the presentation submitted by project proponent was taken on record.

During discussions, the representative of the promoter company agreed to fully comply with all the conditions proposed by SEAC as mentioned above. The SEIAA observed that the case stands recommended by SEAC.

The Environmental Consultant of the project proponent informed the Authority that they have proposed to adopt one no. pond in village Rampur, District Ludhiana. However, the same has been mistakenly recorded as village Doraha in the condition as imposed by SEAC. It was therefore requested by the Environmental Consultant to change the same in the condition no. iii of III. The request was accepted by the SEIAA.

SEIAA was satisfied with the EIA report as submitted by the project proponent and the measures proposed for the control of pollution by the industry.

After detailed deliberation and perusal of relevant documents including the revised EMP, SEIAA decided to accept the recommendations of SEAC and grant Environmental Clearance for expansion in steel manufacturing unit namely M/s Saeco Strips Pvt. Ltd. for installing of induction furnace of capacity 15 TPH and CCM at Village- Doraha, Rampur Road, Tehsil-Payal, District-Ludhiana (Punjab) as per the details mentioned in the application and subsequent

presentation /clarifications made by the project proponent and his consultant with proposed measures and subject to conditions proposed by SEAC and additional condition as under:

**Amended Condition no. iii) of IX. Environment Management Plan**

- (i) 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 will not be diverted for any other purpose.

**EMP BUDGET**

<b>S. No.</b>	<b>Title</b>	<b>Capital Cost Rs. Lakh</b>	<b>Recurring Cost Rs. Lakh/Cost annum</b>
1.	Air Pollution Control	75.00	10.0
2.	Solid / Hazardous Waste Management	5.50	0.70
3.	Water pollution Control (installation of STP @ 15 KLD)	10.0	0.60
4.	Green Belt development	24.0	24.0 (For three years)
5.	Noise Pollution Control	0.30	0.02
6.	Occupational Health, Safety and Risk Management	5.0	0.05
7.	Fire Safety	5.0	0.05
8.	Rain water harvesting	10.0	0.10
9.	Miscellaneous	5.0	---
10.	Additional Environmental activities	24.0	--
<b>Total</b>		<b>163.8</b>	<b>35.52</b>

**Details of Additional Environmental Activities as proposed by industry**

<b>S. No.</b>	<b>CER Activities</b>	<b>Cost</b>
1	Rejuvenation of Village Pond (Rampur)	Rs. 24 lacs

The entire cost of the environmental management plan will continue to be borne by the project proponent for the lifetime of the project. Year-wise progress of implementation of the action plan shall be reported to the Regional Office, MOEF&CC/ SEIAA along with the six-monthly compliance report.

The project proponent shall also submit physical/financial progress along with utilization certificates and documentary evidence (including photographs and short video clips) of the works undertaken regarding additional environmental activities by the project proponent in all the subsequent six-monthly compliance reports till the completion of these activities.

**Amended Condition no. iii) of III. Water quality monitoring and preservation**

- (iii) The project proponent shall undertake rainwater harvesting to the maximum possible extent. For this, 1 no. of pond at village Rampur, Tehsil Doraha, District Ludhiana shall be adopted to recharge the water. As an additional safety measure, the stream carrying wastewater of the village shall be diverted in one corner of Phytoid plants trench (designed as per the technology developed by CSIR-NEERI's) divided into different parts, the overflow of each chamber shall be allowed to enter into the next chamber which will ultimately lead to the purification of water which will be collected in the 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 it to the nearby fields.

**Item No.248.07: Application for Environmental Clearance for expansion of Group Housing project namely “Homeland Heights” located at Site No. 5, Sector 70, SAS Nagar (Mohali), Punjab by M/s Homeland Buildwell Pvt. Ltd. (Proposal No. SIA/PB/MIS/259508/2022)**

The Project Proponent was granted Environment Clearance vide letter No. SEIAA/MS/2021/4824 dated 18.10.2021 for expansion of the group housing project namely “Homeland Heights” located at Site No. 5, Sector 70, SAS Nagar, Punjab. The total land area of the project is 18,623.325 sqm having built up area of 85,111.5 sqm. The Project Proponent has proposed to construct 303 DUs and 18 shops along with 1 club house and restaurant.

Further, the Project Proponent was granted amendment in Environment Clearance vide letter no. SEIAA/MS/2021/4883 dated 25.11.2021 for group housing project namely “Homeland Heights” located at Site No. 5, Sector 70, SAS Nagar, Punjab.

The project proponent has applied for Expansion in Environmental Clearance of Group Housing project namely “Homeland Heights” located at Site No. 5, Sector 70, SAS Nagar (Mohali), Punjab. The built-up area of project increased from 85,111.5 sqm to 85,360.117 sqm. The project is covered under category 8(a) of the scheduled appended with EIA notification dated 14.09.2006.

The Project Proponent has constructed 298 DUs and 18 Shops out of 303 DUs and 18 Shops. The Project Proponent has proposed to expand the commercial part of the project in such a way that the total number of shops increased from 18 to 26.

The Project Proponent has submitted certified compliance report vide letter no. 7580 dated 19.12.2022 issued by Punjab Pollution Control Board. The Project Proponent has also submitted name of the company has been changed from Homeland Buildwell Pvt Ltd to H L Buildwell Pvt. Ltd. A copy of the certified compliance report and certificate of incorporation of company name change is submitted. The Project Proponent has deposited Rs. 500/- vide UTR No. 205083250689 dated 19.02.2022 as checked & verified by the supporting staff of SEIAA.

**Deliberations during 236<sup>th</sup> meeting of SEAC held on 09.01.2023.**

The meeting was attended by the following:

- (i) Mr. Narinder Vaid, Advocate, authorized on behalf of Resolution Professional with respect to M/s H L Buildwell Private Limited.
- (ii) Mr. Sandeep Garg, EIA-Coordinator, M/s Eco Laboratories Pvt. Ltd.
- (iii) Mrs. Jyoti Rani, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.

SEAC allowed the Environmental Consultant of the project proponent to present the Salient feature of the project as under:

S. No.	Description	EC accorded	Proposed	Total after Expansion
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1.	Plot Area	18,623.325 sq.m.(or 4.6019 acres)		
2.	Built-up Area	85,111.5 sq.m.	248.617 sq.m.	85,360.117 sq.m.
3.	Dwelling Units	303	-5	298
4.	Shops	18	8	26
5.	Estimated Population	1,400 persons	-7 persons	1,393 persons
6.	Total Fresh water demand	124 KLD	-2 KLD	122 KLD
7.	STP capacity	Already installed STP of 200 KLD		
8.	Solid waste generated	553 kg/day	-6 kg/day	547 kg/day
9.	Parking Provision	688 ECS		
10.	Rain water recharging pits	5 pits		
11.	Power load	3,861 KVA	37	3898 KVA
12.	DG sets	Already provided 2 DG sets of capacity 500 KVA each		

Details of activities under Environment Management Plan is mentioned below:

Description	Recurring Cost (Rs. in Lakhs/annum)
Waste water Management (STP of 200 KLD capacity)	3
Air, Noise Pollution Management & Landscaping	0.50
Rainwater Recharging (maintenance of 5 pits)	0.50
Environmental Monitoring	0.25
Solid Waste Management (including mechanical composter of size 300 kg)	2.50
Energy Conservation Measures (LED & solar panel system)	0.25
<b>TOTAL</b>	<b>Rs. 7.00 Lakhs</b>

Rs. 40 Lakhs has been reserved under CER activities as given below:

Sr. No.	Activities	Amount (Rs. in Lakhs)	Tentative time completion of the activities



1	Rain water harvesting shall be carried out by adopting a village pond located at village Khizrabad Hatli Patti SAS Nagar (Mohali). For this the stream carrying the waste water of the village shall be diverted in one corner of Phytoid Plants Trench (designed based on the technology developed by the CSIR-NEERI's) divided into different parts, the overflow of each chamber which will ultimately lead to the purification of the water collected into the pond to avoid any contaminated of ground water aquifer.	20	31.05.2022
2	Solar panel of 10 KW system shall be installed in the govt. primary school Building situated at village KhizrabadHatli Patti SAS Nagar (Mohali)	10	31.05.2022
3	Bio Toilets in the Govt. Primary School Building situated at village KhizrabadHatli Patti SAS Nagar (Mohali)	5	31.05.2022
4	Repair cleaning and whitewash of the Govt. Primary School Building situated at village KhizrabadHatli Patti SAS Nagar (Mohali)	5	31.05.2022
<b>Total</b>		<b>40</b>	

During meeting, the Project Proponent apprised the Committee as under:

- (i) The name of the promoter company has been changed from M/s Homeland Buildwell Pvt Ltd to M/s H L Buildwell Pvt Ltd with effect from 24.03.2021. A copy of the certificate in this regard has been submitted.
- (ii) As per order of the Hon'ble Adjudicating Authority, Corporate Insolvency Resolution Process ("CIRP") has been initiated in respect of the M/s H L BUILDWELL PRIVATE LIMITED ("the Company/ Corporate Debtor") under the provisions of the Insolvency and Bankruptcy Code, 2016 ("IBC Code, 2016") with effect from 15th February, 2022 and Mr. Deepak Garg had been appointed as Interim Resolution Profession. Further, as per order dated 01-04-2022 of Hon'ble NCLT, Mr.Vinay Kumar Singhal, (IP Registration No.: IBBI/IPA-002/IP-N00624/2018-2019/11880) have been appointed as the Resolution Professional with respect to the company in place of Mr. Deepak Kumar Garg.
- (iii) Furthermore, the Resolution Professional with the permission of the Committee of Creditors (COC) has invited the Resolution Plans, the prospective Resolution applicants

have submitted the plans. The COC has approved the resolution plan and the RP has filed an application before the Honorable Adjudicating Authority. The next date of hearing is fixed for 10.01.2023.

The Committee further perused the proceedings of the 229th meeting of SEIAA held on 03.01.2023 and it was observed that Sh. Vinay Kumar Singhal, IRP vide request letter dated 02.05.2022 sought extension in Environment Clearance for complying with the following conditions:

- i. The project proponent shall submit revised Remediation and Natural & Community Resource Augmentation plan of Rs 40 Lakhs to SEIAA, Punjab, by 05.11.2021.
- ii. Amount of Rs. 40 lacs shall be spent on the activities taken under the Remediation and Natural & Community Resource Augmentation plan of the proposed project (to be submitted by the PP by 05.11.2021 for consideration / approval of SEIAA) and said plan shall be implemented within a period of 6 months.
- iii. Bank Guarantee of Rs 40 Lakhs will be deposited by the Project Proponent with the Regional Office, Punjab Pollution Control Board, Mohali in place of Bank Guarantee amounting to Rs.6.0 Lacs as an assurance to complete activities taken under remediation plan and Natural and Community Resource Augmentation Plan and copy of the receipt of the same shall be submitted to SEIAA Punjab by 05.11.2021. The Bank Guarantee will be released by SEIAA after successful implementation of the activities prescribed and approved in the Remediation and Natural & Community Resource Augmentation plan on the recommendations of Regional Office, MoEF&CC, Chandigarh or SEIAA /SEAC Committee.
- iv. This Environmental Clearance is liable to be revoked without any further notice to the Project Proponent in case of failure to comply with conditions (i), (ii) and (iii) above.

The aforementioned matter was considered in the 206th, 225th and lastly in 229th meetings of SEIAA held on 3.01.2023 wherein, it was decided to accept the request of Sh. Vinay Kumar Singhal, IRP for grant extension in validity of EC subject to the following conditions:

- i. The validity of the bank guarantee amounting to Rs 40 Lakhs shall be extended and submitted to Regional Office, Punjab Pollution Control Board, Mohali as an assurance to complete the activities to be implemented under the remediation plan and Natural and Community Resource Augmentation Plan one month before its expiry and a copy of the receipt of the same will be submitted to SEIAA Punjab.
- ii. The Bank Guarantee will be released by SEIAA after successful implementation of the activities prescribed and approved in the Remediation and Natural & Community Resource

Augmentation plan on the recommendations of the Regional Office, MoEF&CC, Chandigarh, or SEIAA /SEAC Committee.

The Committee further perused the certified compliance report of Punjab Pollution Control Board submitted vide letter no. 7580 dated 19.12.2022 for complying the conditions of earlier Environment Clearance granted to the promoter company. The Committee observed that most of the conditions could not be verified by PPCB during their visit to the project.

The Committee decided that Sh. Parminder Singh Bhogal, Member SEAC shall visit the project site to check the compliance of EC conditions.

After detailed deliberations, SEAC decided to defer the case till the Project Proponent submits the self-certified compliance report for complying with the conditions of Environment Clearance earlier granted to it and the Member SEAC check the compliance status of the Environment Clearance.

As decided in the 236<sup>th</sup> meeting of SEAC held on 9.01.2023, Sh. Parminder Singh Bhogal, Member SEAC visited the project of "Homeland Heights" Sector – 70, Mohali and submitted the inspection report of the site visit conducted by him on 17.03.2023 which is reproduced as under:

- (i) Project stand completed and all flats are occupied by inhabitants. PPCB was renewed its consent to operate vide letter dated 9.05.2022, valid till 31.03.2023.
- (ii) PPCB observation regarding non-working of composter, it was seen in operation at site on the day of visit.
- (iii) PPCB observation regarding non installation of Ambient Air Quality Monitoring System, this has not been installed at site.
- (iv) STP was seen in operation and working found satisfactory. Record of effluent is being maintained as per available record at site. Treated water is being used for gardening etc. Dual plumbing seen at site.
- (v) Main conditions of EC was seen at site and found in compliance to a satisfactory extent.

#### **Deliberations during 245<sup>th</sup> meeting of SEAC held on 24.04.2023.**

The meeting was attended by the following:

- (i) Mr. Narinder Vaid, Advocate, authorized on behalf of Resolution Professional with respect to M/s H L Buildwell Private Limited.
- (ii) Mr. Sandeep Garg, EC-Coordinator, M/s Eco Laboratories Pvt. Ltd.
- (iii) Mrs. Jyoti Rani, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.

SEAC allowed the Environmental Consultant of the project proponent to present the reply of the aforementioned observations as under:

S. No.	ADS Queries	Reply
1.	Project Proponent submits the self-certified compliance report for complying with the conditions of Environment Clearance earlier granted to it.	Self-certified compliance report for conditions mentioned in earlier granted Environmental Clearance is submitted.

During meeting, the Project Proponent apprised the Committee that the Bank Guarantee amounting to Rs. 40lac submitted with Punjab Pollution Control Board is valid up till 31 January 2024. A copy of the said Bank Guarantee already submitted with Punjab Pollution Control Board was taken on record by the Committee.

After detailed deliberations, the Committee decided to award silver grading to the project and to forward the application to SEIAA with the recommendation to grant Environmental Clearance for expansion of Group Housing project namely “Homeland Heights” located at Site No. 5, Sector 70, SAS Nagar (Mohali), Punjab, subject to the following conditions: -

**I. Statutory compliances:**

- i) The project proponent shall obtain all necessary clearances/ permissions from all relevant agencies including the town planning authority before commencement of work. All the construction shall be done in accordance with the local building bye laws.
- ii) The approval of the Competent Authority shall be obtained for the structural safety of buildings due to earthquakes, adequacy of fire fighting equipment, etc. as per the National Building Code including protection measures from lightning, etc.
- iii) The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes is involved in the project.
- iv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v) The project proponent shall obtain Consent to Establish / Operate under the provisions of the Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Punjab Pollution Control Board.
- vi) The project proponent shall obtain the necessary permission for the abstraction of groundwater/ surface water required for the project from the competent authority.

- vii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii) All other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire Department, and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix) The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x) The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi) The project site shall conform to the suitability as prescribed under the provisions laid down under the master plan of the respective city/ town. For that, the project proponent shall submit the NOC/ land use conformity certificate from Deptt. of Town and Country Planning or other concerned Authority under whose jurisdiction, the site falls.
- xii) Besides the above, the project proponent shall also comply with siting criteria/guidelines, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such types of projects.
- xiii) The project proponent shall construct the buildings as per the layout plan approved from the Competent Authority and in consonance of the project proposal for which this environment clearance is being granted.

## **II. Air quality monitoring and preservation**

- i) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii) A management plan shall be drawn up and implemented to contain the current exceedance in the ambient air quality at the site.
- iii) The project proponent shall install a system to undertake Ambient Air Quality monitoring for common /criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5) covering upwind and downwind directions during the construction period.
- iv) Diesel power generating sets proposed as a source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel would be the preferred

option. The location of the DG sets may be decided in consultation with Punjab Pollution Control Board.

- v) Construction site shall be adequately barricaded before the construction begins. Dust, smoke and other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, and continuous dust/ wind-breaking walls all around the site (at least 3 m height or 1/3rd of the building height and maximum up to 10 m). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi) No Excavation of soil shall be carried out without adequate dust mitigation measures in place.
- vii) No loose soil or sand or construction and demolition waste or any other construction material that causes dust shall be left uncovered.
- viii) No uncovered vehicles carrying construction material and waste shall be permitted.
- ix) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- x) Grinding and cutting of building material in open areas shall be prohibited. A wet jet shall be provided for grinding and stone cutting.
- xi) Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- xii) All construction and demolition debris shall be stored at the site within the earmarked area and roadside storage of construction material and waste shall be prohibited. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- xiii) The diesel generator sets to be used during the construction phase shall be low sulphur diesel type and shall conform to the norms and regulations prescribed under air and noise emission standards.
- xiv) The gaseous emissions from the DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xv) For indoor air quality, the ventilation provisions as per the National Building Code of India shall be complied with.

- xvi) Roads leading to or at the construction site must be paved and blacktopped (i.e., metallic roads should be built and used).
- xvii) Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.
- xviii) Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measures will be notified at the site

### **III. Water quality monitoring and preservation**

- i) The natural drainage system should be maintained for ensuring unrestricted flow of water.
- ii) No construction shall be allowed which obstructs the natural drainage through the site, in wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
- iii) Buildings shall be designed to follow the natural topography as far as possible. Minimum cutting and filling should be done.
- iv) The total fresh water requirement for the project shall be 122 KLD, which shall be met through GMADA. Total freshwater use shall not exceed the proposed requirement as provided in the application proposal and other relevant details as under:
  - b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes.
  - c) During the construction phase, the project proponent shall ensure that the wastewater generated from the labour quarters/toilets shall be treated and disposed of in an environment-friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately designed septic tanks for the treatment of such wastewater and treated effluents shall be utilized for green area/plantation.
- v) The project proponent shall ensure a safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided, if required.
- vi) The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA along with six-monthly monitoring reports.

- vii) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration, and the balance of water available. This should be specified separately for groundwater and surface water sources, ensuring that there is no impact on other users.
- viii) At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape, etc. would be considered as pervious surface.
- ix) Dual pipe plumbing shall be installed for supplying fresh water for drinking, cooking and bathing, etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, air conditioning etc.
- x) Installation of R.O. plants in the project will be discouraged in order to reduce water wastage in form of RO reject. However, in case the requirement of installing RO plant is unavoidable, the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component or in a common place in the project premises.
- xi) The project proponent shall also adopt the new/innovative technologies like low water discharging taps (faucet with aerators) /urinals with electronic sensor system /waterless urinals/twin flush cisterns/ sensor-based alarm system for overhead water storage tanks and make them a part of the environmental management plans/building plans so as to reduce the water consumption/groundwater abstraction.
- xii) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/other purposes etc. and will colour code the different pipelines carrying water/wastewater from different sources / treated wastewater as follows:

<b>Sr. No</b>	<b>Nature of the Stream</b>	<b>Color code</b>
a)	Fresh water	Blue
b)	Untreated wastewater from Toilets/ urinal and from Kitchen	Black
c)	Untreated wastewater from Bathing/shower area, hand washing (Washbasin / sinks) and from Cloth Washing	Grey
d)	Reject water streams from RO plants and AC condensate (this is to be implemented wherever centralized AC system and common RO has been proposed in the Project). Further, in case of individual houses/establishment this proposal may also be implemented wherever possible.	White



e)	Treated wastewater (for reuse only for plantation purposes) from the STP treating black water	Green
f)	Treated wastewater (for reuse for flushing purposes or any other activity except plantation) from the STP treating greywater	Green with strips
g)	Storm water	Orange

- xiii) Water demand during construction should be reduced by the use of pre-mixed concrete, curing agents, and adopting other best practices.
- xiv) The CGWA provisions on rainwater harvesting should be followed. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of the plot area and a storage capacity of a minimum of one day of the total freshwater requirement shall be provided. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. The groundwater shall not be withdrawn without approval from the Competent Authority.
- xv) All recharge should be limited to shallow aquifers.
- xvi) No groundwater shall be used during the construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and should be available at the site.
- xvii) Any groundwater dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any groundwater abstraction or dewatering.
- xviii) The quantity of freshwater usage, water recycling, and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC, and SEIAA along with six-monthly Monitoring reports.
- xix) Sewage shall be treated in the STP with tertiary treatment by providing ultra-filtration Technology. STP shall be installed in a phased manner viz a viz in the module system designed in such a way so as to efficiently treat the wastewater with an increase in its quantity due to rise in occupancy. The treated effluent from STP shall be recycled/reused for flushing and gardening. No treated water shall be disposed of into the municipal stormwater drain.
- xx) No sewage or untreated effluent would be discharged through stormwater drains. Onsite sewage treatment with a capacity to treat 100% wastewater will be installed. The

installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry / SEIAA before the project is commissioned for operation. Treated wastewater shall be reused on-site for landscape, flushing, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by the Ministry of Environment, Forest, and Climate Change. Natural treatment systems shall be promoted.

- xxi) Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxii) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed of as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

#### **IV. Noise monitoring and prevention**

- i) Ambient noise levels shall conform to the commercial area both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during the construction phase. Adequate measures shall be made to reduce noise levels during the construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- ii) A noise level survey shall be carried out as per the prescribed guidelines and a report in this regard shall be submitted to the Regional Officer of the Ministry as a part of a six-monthly compliance report.
- iii) Acoustic enclosures for DG sets, noise barriers for ground-run bays, earplugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

#### **V. Energy Conservation measures**

- i) Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii) Outdoor and common area lighting shall be LED.
- iii) Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass, etc. shall be incorporated in the building design. Wall, window, and roof U-values shall be as per ECBC specifications.

- iv) Energy conservation measures like the installation of LEDs for lighting the area outside the building should be an integral part of the project design and should be in place before project commissioning.
- v) Solar, wind, or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi) At least 30% of the rooftop area shall be used for generating Solar power for lighting in the apartments so as to reduce the power load on the grid. A separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher.

## **VI. Waste Management**

- i) A certificate from the competent authority handling municipal solid waste, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from the project shall be obtained.
- ii) The Project Proponent shall install Mechanical Composter of adequate capacity to treat wet component of the Solid Waste.
- iii) Disposal of muck during the construction phase should not create any adverse effect on the neighbouring communities and should be safely disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of the competent authority.
- iv) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating the segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- v) Organic waste compost/ Vermiculture pit/ Organic Waste Converter/Mechanical Composter within the premises must be installed for treatment and disposal of the solid waste.
- vi) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie-up must be done with the authorized recyclers.
- vii) Any hazardous waste generated during the construction phase, shall be disposed of as per applicable rules and norms with the necessary approvals of the State Pollution Control Board.
- viii) Use of environment-friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly

Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.

- ix) Fly ash should be used as a building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready-mixed concrete must be used in building construction.
- x) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- xi) Used CFLs and TFLs should be properly collected and disposed of or sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

## **VII. Green Cover**

- i) No naturally growing tree should be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department.
- ii) At least a single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. The project proponent shall ensure the planting of 233 trees in the project area at the identified location, as the per proposal submitted, with plants of native species preferably having broad leaves. The size of the plant thus planted should not be less than 6 ft and each plant shall be protected with a fence and properly maintained. The project proponent shall make adequate provisions of funds to ensure maintenance of the plants for a further period of three years and thereafter, protected throughout the entire lifetime of the Project. The species with heavy foliage, broad leaves, and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. The plantation should be undertaken as per SEIAA guidelines.
- iii) The Project Proponent shall develop a green belt with native tree species (having canopy type structure and especially trees, and not grass) before the completion of the project. The greenbelt shall inter alia cover the entire periphery of the unit provided that the number of trees to be planted should not be less than one tree per 80 sqm of the total land area. The canopy trees shall also be planted around the parking area to provide shade to the parked vehicles.
- iv) Where the trees need to be cut with prior permission from the concerned local Authority, a compensatory plantation in the ratio of 1: 10 (i.e., planting of 10 saplings of

the same species for every tree that is cut) shall be done and the newly planted saplings will be maintained for at least 5 years. Green belt development shall be undertaken as per the details provided in the project document.

- v) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during the plantation of the proposed vegetation on site.
- vi) The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.
- vii) The green belt along the periphery of the plot shall achieve an attenuation factor conforming to the day and night noise standards prescribed for commercial land use.
- viii) The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report.

### **VIII. Transport**

- i) A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
  - a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b) Traffic calming measures.
  - c) Proper design of entry and exit points.
  - d) Parking norms as per local regulations.
- ii) Vehicles hired for bringing construction material to the site should be in good condition and should have a valid pollution check certificate, conform to applicable air and noise emission standards, and should be operated only during non-peak hours.
- iii) A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 km radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on the cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies within this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

- iv) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.

#### **IX. Human health issues**

- i) All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris, or working in any area with dust pollution shall be provided with dust masks.
- ii) For indoor air quality, the ventilation provisions as per the National Building Code of India should be followed.
- iii) An emergency preparedness plan based on the Hazard Identification and Risk 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, and 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 regularly.
- v) A First Aid Room shall be provided in the project both during construction and operations of the project.

#### **X. Environment Management Plan**

- i) The company shall have a well-laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violations 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 and / or shareholders / stakeholders. A copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of the six-monthly report.
- ii) A separate Environmental Cell both at the project and company headquarters level, with qualified personnel shall be set up under the control of senior Executive, who will report directly to the head of the organization.
- (i) An action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority.

#### **XI. Validity**

This environmental clearance will be valid for a period of ten years from the date of its issue as per MoEF& CC, GoI notification No. S.O. 1807 (E) dated 12.04.2022 or till the completion of the project, whichever is earlier.

## **XII. Miscellaneous**

- i) The project proponent shall obtain a completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab before allowing any occupancy.
- ii) The project proponent shall comply with the conditions of CLU, if obtained.
- iii) The project proponent shall prominently advertise in at least two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- iv) 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 have to publicly display the same for 30 days from the date of receipt.
- v) 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 a half-yearly basis.
- vi) 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 the Environment Clearance portal and submit a copy of the same to SEIAA.
- vii) 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 the same on the website of the company.
- viii) The project proponent shall inform the Regional Office as well as SEIAA Punjab, 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.
- ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

- x) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during public hearing and also those made to SEIAA / SEAC during their presentation.
- xi) No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- xii) The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/ SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/ information/monitoring reports.
- xiii) This Environmental Clearance is granted subject to final outcome of pending related cases in the Hon'ble Supreme Court of India, Hon'ble High Courts, Hon'ble NGT and any other Court of Law as may be applicable to this project.

### **XIII. Additional Conditions**

- i) The approval is based on the conceptual plan/drawings submitted with the application. In case, there is variation in built-up area/green area/ any other details in the drawings approved by the competent authority, the Project Proponent shall obtain the revised Environmental Clearance.
- ii) The Project Proponent shall ensure that the natural drainage channels in the project site including streams, drains, choes, creeks, rivulets, etc. are not disturbed so that the natural flow of rainwater, etc is not impeded or disrupted in any manner.
- iii) Authorization from Punjab Pollution Control Board shall be obtained as applicable under the Bio-Medical Waste Management Rules 2016 as amended from time to time.
- iv) The solid waste other than Bio-Medical Waste & Hazardous Waste (dry as well as wet garbage) generated should be properly collected and segregated before disposal to Municipal Authorities in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2000. No municipal waste should be disposed off outside the premises in contravention of relevant rules and by-laws. Adequate measures should be taken to prevent any malodour in and around the Project premises.
- v) In the event that the project proponent decides to abandon/close the Project at any stage, he shall submit an application in the prescribed form along with requisite



documents through Parivesh to SEIAA for surrendering the Environmental Clearance as per the procedure prescribed in OM dated 29.03.2022 issued by the MoEF&CC. The project proponent shall be accountable for adherence/compliance of the EC conditions till such time as the project is finally closed by SEIAA, based upon the certified closure report of Integrated Regional Offices (IROs) of MoEF&CC, Chandigarh/PPCB.

- vi) This Environmental Clearance is liable to be revoked without any further notice to the Project Proponent in case of failure to comply with condition (v) above.
- vii) 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.
- viii) The Project Proponent shall manage the solid waste generated from the project as per the sub-rule-7 of rule-4 of SWM Rules 2016.
- ix) The Ministry reserves the right to stipulate additional conditions if found necessary. The Promoter Company in a time bound manner shall implement these conditions.
- x) 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.
- xi) Any appeal against this Environmental Clearance 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.

#### **1.0 Deliberations during 248<sup>th</sup> meeting of SEIAA held on 05.05.2023**

The case was considered by SEIAA in its 248<sup>th</sup> meeting held on 05.05.2023 which was attended by the following:

- (i) Mr. Narinder Vaid, Advocate, authorized on behalf of Resolution Professional with respect to M/s H L Buildwell Private Limited.
- (ii) Mr. Sandeep Garg, EIA-Coordinator and Ms. Jyoti Rana M/s Eco Laboratories Pvt. Ltd.

Environmental Consultant presented the salient features of the project. A copy of the presentation submitted by project proponent was taken on record.

During discussions, the representative of the promoter company agreed to fully comply with all the conditions stipulated by SEAC. The SEIAA observed that the case stands recommended by

SEAC and the Committee has awarded 'Silver Grading' to the project proposal. SEIAA also noted that Sh P S Bhogal, Member SEAC who had been nominated to visit the Project had reported that the overall compliance of conditions imposed in the earlier issued EC was satisfactory.

SEIAA looked into the relevant details of the case and was satisfied with the same.

After detailed deliberations, examination of relevant documents and perusal of the amended EMP, SEIAA decided to accept the recommendations of SEAC and grant Environmental Clearance for expansion of Group Housing project namely "Homeland Heights" for increase in built up area from 85,111.5 sqm to 85,360.117 sqm at Site No. 5, Sector 70, SAS Nagar (Mohali), Punjab as per the details mentioned in the application and subsequent presentation /clarifications made by the project proponent and his consultant with proposed measures and subject to the conditions proposed by SEAC.