Proceedings of 251th meeting of State Expert Appraisal Committee (SEAC) held on 10.07.2023 at 11:00 AM in the Conference Hall no. 2, MGSIPA Complex, Sector-26, Chandigarh.

Following were present:

Sr. No.	Name of SEAC Member	Designation in SEAC
1.	Er. Yogesh Gupta	Chairman (Through VC)
2.	Sh. Pardeep Garg	Member Secretary
3.	Sh. K.L Malhotra	Member
4.	Sh. Anil Kumar Gupta	Member (Through VC)
5.	Sh. Sunil Mittal	Member
6.	Sh. Pawan Krishan	Member (Through VC)
7.	Sh. Parminder Singh Bhogal	Member (Through VC)

Item No. 01: **Confirmation of the proceedings of 249th & 250th meeting of State Level Expert Appraisal Committee held on 12.06.2023 & 20.06.2023.**

The proceedings of 249th & 250th meeting of State Level Expert Appraisal Committee held on 12.06.2023 & 20.06.2023 were prepared and circulated through email. The comments of Sh. KL Malhotra, Member SEAC received through e-mail on 17.06.2023 were incorporated in the proceedings of the 249th meeting held on 12.06.2023. Further, no comments were received with regard to the proceedings of the 250th meeting held on 20.06.2023. SEAC noted the same and confirmed the proceedings of the 249th & 250th meetings.

Item No. 02: **Action taken on the proceedings of the 249th & 250th meeting of State Level Expert Appraisal Committee held on 12.06.2023 & 20.06.2023.**

The action taken on the decisions of 249th & 250th meeting of State Level Expert Appraisal Committee held on 12.06.2023 & 20.06.2023 have been completed. SEAC noted the same.

Item No.251.01: Request for inputs- Capacity Building need assessment of SEAC for 3 Tier Monitoring mechanism Project.

The Project Scientist, NEERI requested for participation in the capacity building need assessment for the 3-tier monitoring mechanism project. The project is being funded by MoEF&CC and aims to enhance the environmental monitoring and management across India. This framework involves the participation and coordination of various stakeholders.

A comprehensive questionnaire regarding capacity building, training needs and skill enhancement has been forwarded by NEERI. The Project Scientist requested for inputs for understating of capacity building requirement specific to SEAC in the prescribed proforma.

During deliberations in its 251st meeting of SEAC held on 10.07.2023

During meeting, the Committee perused the questionnaire sent by NEERI and furnished the details in the said proforma.

The Committee decided to send the said information to NEERI for further necessary action.

Item no. 251.02: Application for Environmental Clearance under EIA notification dated 14.09.2006 for proposed 0.75 Millon Tonnes Per Annum (MTPA) Crude Steel Production at Industrial Plot A-1, Village Kadiana Khurd, Tehsil Ludhiana (East), District Ludhiana by M/s Tata Steel Limited (Proposal No. SIA/PB/IND1/430223/2022).

The industry proposes to install 0.75 MTPA of crude steel production through Electric Arc Furnace (EAF) at industrial Plot A-1, adjacent to Hi Tech Cycle Valley at Village Kadiana Khurd, Tehsil Ludhiana (East), District Ludhiana on land measuring about 115 acres.

The industry was granted Terms of Reference vide SEIAA letter No. SEIAA/MS/2023/394 dated 10.02.2023 for carrying out EIA study as per the EIA notification dated 14.09.2006. The industry is covered under category 3(a) of the schedule appended with EIA notification dated 14.09.2006.

The industry has submitted Final EIA report after incorporating the compliance of the Terms of Reference (ToR) and public hearing consultation. The total cost of the project is Rs. 2590 Crore and the industry has deposited Rs. 6475000/- vide UTR No. HDFCR52023020781237687 dated 07.02.2023 and Rs. 19425000/- vide UTR No. HDFCR52032060 dated 02.06.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

The Punjab Pollution Control Board vide letter No. 12281 dated 26.05.2023 conveyed the proceedings of the public hearing of the industry held on 28.04.2023, wherein the comments regarding construction status, adequacy of the pollution control proposal and suitability of site are given as under:

Suitability of site:

The site of the project is located, at industrial plot A-1, Village Kadiana Khurd, Tehsil Ludhiana East, Ludhiana, at coordinates 30.946951, 75.986953. The site is located, opposite to the M/s Hero E-cycles, Pvt Ltd. The site is located around, 5 Km from the Municipal Corporation, Ludhiana limits as such the site is located, outside the boundary of critically polluted area, Ludhiana. The industry has submitted allotment letter of industrial plot from PSIEC vide letter No. 14510 dated 14.07.2022 for manufacturing purposes. As such site is in principle suitable for proposed project.

Adequacy of pollution control proposals:

The industry has proposed, to install the side hood, along with pulse jet bag house as APCD with its induction furnace. The Project Proponent has also proposed to install STP for treatment of domestic effluent generated from the industry, Hence the pollution control devices proposed by the industry are principally adequate.

Construction status:

No construction work of the building of the project has been started. The industry has started only work regarding boundary wall.

Deliberations during 249th meeting of SEAC held on 12.06.2023.

The meeting was attended by the following:

(i) Mr. Ajit Kothari, Chief Projects & Construction Sustainability M/s Tata Steel Ltd.
(ii) Mr. Suresh, Environmental Consultant M/s Vimta Labs.

The Committee allowed the Environmental Consultant to present the salient features of the application proposal. Thereafter, the Environmental Consultant presented the case as under:

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	Project Name: Proposed 0.75 Million Tonnes Per Annum (MTPA) Crude Steel Production Through Electrical Arc Furnace Proponent: M/s. Tata Steel Limited Applicant: Amit Ranjan Chakraborty Designation: Chief Environment Management
1.2	Proposal:	SIA/PB/IND1/430223/2022
1.3	Location of Industry:	Industrial Plot A-1, Kadiana Khurd Village (Adjacent To Hi-Tech Valley), Ludhiana (East) Tehsil, Ludhiana District, Punjab.
1.4	Details of Land area & Built up area:	The total land area is 46.53 Ha (115 Acres).
1.5	Category under EIA notification dated 14.09.2006	The project falls under S.No. 3(a) – Metallurgical Industries, Category-B
1.6	Cost of the project	Total – Rs 2590 Cr.
1.7	Compliance of Public Hearing Proceedings	Detailed Action Plan along with timeline and Budget allocation is given as **Annexure I.**
2.	**Site Suitability Characteristics**	
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 land required for the project is allocated by the Punjab Small Industries & Export Corporation Limited vide File No: PSIEC/ESTATE/14510, dated:14.07.2022 for the land area measuring 556600 sqyard (115 acres).
3	**Forest, Wildlife and Green Area**	

<table>
<tr><td>3.1</td><td>Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:</td><td>No forest land is involved in the project.</td></tr>
<tr><td>3.2</td><td>Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:</td><td>No, the industry does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900.</td></tr>
<tr><td>3.3</td><td>Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:</td><td>No wildlife sanctuary is involved in the vicinity or study area of the project site.</td></tr>
<tr><td>3.5</td><td>Whether the industry falls within the influence of Eco-Sensitive Zone or not. (Specify the distance from the nearest Eco sensitive zone)</td><td>Not applicable</td></tr>
<tr><td>3.6</td><td>Green area requirement and proposed No. of trees:</td><td>An area of 15.36 Ha (33 %) of land allocated for green belt development. Arrangements shall be made to ensure a minimum 90% of survival.
<table>
<tr><th>Sr. No</th><th>Year</th><th>Area (Ha)</th><th>No. of Saplings/Plants</th></tr>
<tr><td colspan="4">Proposed Plantation</td></tr>
<tr><td>1</td><td>2024-25</td><td>3.07</td><td>7675</td></tr>
<tr><td>2</td><td>2025-26</td><td>3.07</td><td>7675</td></tr>
<tr><td>3</td><td>2026-27</td><td>3.07</td><td>7675</td></tr>
<tr><td>4</td><td>2027-28</td><td>3.07</td><td>7675</td></tr>
<tr><td>5</td><td>2028-29</td><td>3.08</td><td>7725</td></tr>
<tr><td></td><td>Total</td><td>15.36</td><td>38425</td></tr>
</table></td></tr>
<tr><td>4.</td><td colspan="2">Raw material, Products and Machinery details are as under:
<table>
<tr><th>Sr.No</th><th>Material</th><th>Quantity (TPA)</th><th>Source</th><th>Distance, Km</th></tr>
<tr><td>1</td><td>Scrap</td><td>840000</td><td>Local Market/Imported</td><td rowspan="6">100 – 150 (Domestic)</td></tr>
<tr><td>2</td><td>Lime</td><td>25000</td><td>Local Market/Imported</td></tr>
<tr><td>3</td><td>Dolomite</td><td>11000</td><td>Local Market/Imported</td></tr>
<tr><td>4</td><td>Coke</td><td>8500</td><td>Local Market/Imported</td></tr>
<tr><td>5</td><td>CaF2</td><td>1000</td><td>Local Market/Imported</td></tr>
<tr><td>6</td><td>Ferro Alloy</td><td>16000</td><td>Local Market/Imported</td></tr>
</table></td></tr>
<tr><td>4.1</td><td colspan="2"></td></tr>
<tr><td>4.2</td><td>Population details</td><td>Operation Phase: Direct – 300, In-Direct- 150
Construction Phase: Direct-500, In-Direct-2500</td></tr>
<tr><td>5</td><td colspan="2">Water</td></tr>
</table>

5.1	Total water requirement:	6000 KLD
5.2	Source:	Punjab Small Industries & Export Corporation Limited (PSIECL).
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) Details thereof	MoU made between PSIEC and Tata steel vide File No: PSIEC/EE-1/860-65; dated: 24.08.2022 submitted, wherein it has been mentioned that Govt of Punjab will provide required quantum of average water requirement 250 cubic mtr/hr including meeting peak requirement to Tata Steel at the selected site.
5.4	Total water requirement for domestic purpose:	240 KLD
5.4.1	Total wastewater generation:	Domestic – 216 KLD
5.4.2	Treatment methodology for domestic wastewater: (STP capacity, technology & components)	The waste water generated from Domestic use treated in STP of capacity 250 KLD with MBBR technology. The treated domestic water will be used for Horticulture purpose.
5.5	Total water requirement	6000 KLD
5.5.1	Total effluent generation:	588 KLD.
5.5.2	Treatment methodology for industrial wastewater: (ETP capacity, technology & components)	The waste water generation from Industry use treated in CETP-720 KLD capacity with SBR technology. The treated water will be sent for cooling water make up and Slag cooling. Industry will follow the Zero Effluent Discharge concept
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. Industrial treated water will be sent for cooling water make up and Slag cooling.

5.7 Cumulative Details: Water Consumption for Summer (KLD)

Process	**Flow**	
	m3/Hr	**KLD**
Make up Water		
ICW -1 Cold Clear Water Tank	153	3672
Softening Plant	12	288
Air Separation Unit	16	384
HVAC Makeup	5	120
Slag Processing Unit	10	240
DCW Cold Cont. Water Tank	34	816
Sub-Total	**230**	**5520**
Domestic	10	240
Green Belt	5	120
Fire Hydrant Clear Water storage	2	48
Backwash Water Sump from Raw water Filtration	2.5	60
Sub-Total	**19.5**	**468**

Evaporation Loss from Raw Water Reservoir	0.5	12
Sub-Total	0.5	12
Grand Total	**250**	**6000**

Water Consumption for Winter & Rainy (KLD)

5.8	Rain water harvesting proposal:	Roof top harvesting is proposed with a potential of 32,000 m3/annum. Storage capacity of rain water harvesting structure is about 6000 m3.

6 Air

6.1 Details of Air Polluting Machinery and APCDs installed are as under:

Stack	Height/ Dia (m)	Velocity (m/s)	Temp (^{0}C)	Flow Rate (Nm^3/hr)	PM_{10} $\mu g/m^3$	$PM_{2.5}$ $\mu g/m^3$	NO_x $\mu g/m^3$	SO_2 $\mu g/m^3$	APCDs
Arc Furnace	85 m/ 5.5 m	16	100	1081000	45.04	9.01	-	-	Bag Filters with 95 % Effectiveness
DG set 1000 KVA	30 m/0.15 m	12	120	-	0.09	0.04	1.75	0.05	Adequate stack height

6.2 **Air Pollution Control Measures:**

Sr. No	Facilities	Air Emissions	Mitigation Measures
1	Furnace/Steel Melting Plant	Fugitive emissions of particulates	Collected by local hooding and de-dusted in fabric filters. Minor emissions of particulates arise from ladle metallurgy processes and vacuum degassing, and they are usually collected and cleaned by fabric filters.
2	Rolling Mill/Wire Rod Mill	The flue gases from the Rolling Mill will be let out through a stack of 40 m height for effective dispersion of emissions into the atmosphere.	The stack height is designed as per CPCB norms
3	Ferro Alloys	Flue gases	By treating the flue gases in Fume Extraction System with bag filters and then discharged into the atmosphere through two numbers of stacks each of 30 m height

7 Waste Management

7.1 Total quantity of solid waste generation

Description	UOM	Total Qty.	Disposal
EAF Slag Produced	TPA	81650	It will be supplied to manufacture of
LF Slag Produced	TPA	19700	

					cement/concrete block, pavers, tiles, construction of roads, under proper agreement
		Total Slag	TPA	**101350**	
		EAF & LF Dust	TPA	12100	Sent to authorized TSDF
		Mill Scale from CCM & RM	TPA	2653	It will be supplied to suitable industries for re-use
		Sludge Generation from filter presses	TPA	1975	Sent to authorized TSDF
		Sludge from STP	TPA	4800	Used as manure
		Broken Refractories	TPA	4000	It will be supplied to suitable industry
		Steel Scrap from CCM and Rolling Mill	TPA	3790	In house reuse
		Total		**130668**	
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.	-			
8	**Energy Saving & EMP**				
8.1	Power Consumption:	Maximum power requirement for proposed project will be about 90.1 MW. which will be supplied by 220/33 kV main receiving sub-station (MRSS), Hi-Tech Valley, Dhanansu. Standby arrangements (DG Sets): 2 X 1 MVA			
8.2	Energy saving measures:	LEDs have been proposed to be used instead of CFLs.			
9.	CER Activities	**CER activities-** Based on Public hearing issues the following CER activity will be carried out. Improving Quality of education in school, promoting sporting culture amongst rural youth, Skill development program and developing on ecosystem that fosters self-reliance and a life of dignity for all person with disability (PwDs) detailed breakup given in **Annexure -1**.			
10.	**EMP BUDGET**				

Sr. No.	**Area**	**Capital cost in Rs. Crores**	**Recurring cost in Rs. Crores**
A	Air Pollution		

	1	Air Pollution Control devices such as bag filters/ESP	120.00	3.00
	2	Wind shield at the boundary	1.50	0.0375
	3	Monitoring equipment	1.00	0.025
	4	Dust suppression through tankers, rain guns and fog cannon	0.75	0.02
	5	Storage Sheds	0.05	0.0012
	B	Water Pollution		
	1	Storm water management and rain water harvesting	1.00	0.025
	2	ETP/STP	6.00	0.085
	C	Noise Pollution		
	1	Acoustic enclosures	1.25	0.032
	D	Greenbelt development	0.50	0.0125
	E	Occupational health	0.50	0.0125
		Total	**133.55**	**3.27**

Annexure-I

THE ISSUES RAISED BY THE PUBLIC DURING THE PUBLIC HEARING AND REPLY BY THE PROJECT PROPONENT ALONG WITH ACTION PLAN

Sr. No	Name of Person / Public / Association / Group / Committee	Views / Suggestions / Observations made during public hearing	Reply by Project Proponent	Action plan to address the issues raised along with budget proposed in EMP with timeline
I	**Reply to oral submissions**			
1)	Sukhdev Singh, Sarpanch, Village Kadiana Khurd.	He requested to provide Job for locals, to renovate the Village Pond, upgrade the infrastructure of village school/medical facilities and to connect the sewage water with Tata Steels sewage treatment plant.	The company will give priority to the locals people in employment based on the their skills. Rejuvenation of village pond will be carried out as a part of CER budget. Sewer network of the surrounding villages will be developed in consultation with local authority.	Rs. 150 Lakhs has been allocated for solution for Community sewage treatment and waste management developed by TSF and managed by the Gram Panchayat as part of CER budget for next 3 years.

			Infrastructure facilities will be provided to the schools and community health centres.	Rs. 122 Lakhs has been allocated for development of infra structure facilities to educational institutes and Rs. 105 Lakhs has been allocated for development of training centre for PwDs on aspiration building, counselling, and employment opportunities in collaboration with the Government (Land for developing infrastructure or existing infrastructure support to be provided by the Govt.) of surrounding villages as a part of CSR activities.
2)	Om, Village Sahnewal	He requested to provide training and development of kabaddi players and football players, international player from Kadiana khurd & football coach for village team.	Identifying and developing serious sporting talents among the rural youth and upgrading sports infrastructure will be carried out as part of CSR activities.	Rs. 282 Lakhs has been allocated for Upgradation of existing sports facilities, Identifying and developing sporting talent among rural youth and setting up running residential sports academy in association with the Government (Infrastructure support to be provided by the Govt.) as part of CSR activities.
3)	Harbans Singh, Village Bhukhri Khurd	He requested to provide Girl's collage, Technical.	In consultation with local administration infrastructure facilities will be provided for educational institutes.	Rs. 122 Lakhs has been allocated for upgrading Schools through Construction of new and Renovation of existing infrastructure, Provision of Smart Classes in schools to promote technology for

			Skill development and vocational trainings for self-employment-oriented skill training programmes will be organized under women empowerment.	better learning experience and learning outcomes as a part of CSR activities. Rs. 324 Lakhs has been allocated for identification, counselling and sponsoring of youth for different skill development trainings and setting up a multi skill development institute in collaboration with the government (Existing infrastructure to be supported by the Government, renovation and running cost can be undertaken by TSF) as a part of CSR activities.
4)	Parteek Joshi, Village Sahnewal.	He requested to provide Grass root working on village players development.	Identifying and developing serious sporting talents among the rural youth and upgrading sports infrastructure will be carried out as part of CSR activities.	Rs. 282 Lakhs has been allocated for Upgradation of existing sports facilities, Identifying and developing sporting talent among rural youth and setting up running residential sports academy in association with the Government (Infrastructure support to be provided by the Govt.) as part of CSR activities.
5)	Aayat Singh, Village Kadiana Khurd.	He requested to provide College or school for better education/medical facility and to provide employment for local community.	Infrastructure facilities will be provided to the schools and community health centres. The company will give priority to the locals people in	Rs. 122 Lakhs has been allocated for development of infra structure facilities to educational institutes and Rs. 105 Lakhs has been allocated for

			employment based on the their skills.	development of training centre for PwDs on aspiration building, counselling, and employment opportunities in collaboration with the Government (Land for developing infrastructure or existing infrastructure support to be provided by the Govt.) of surrounding villages as a part of CSR activities.
6)	Gurdeep, Village Kadiana Khurd.	He requested to provide skill development for villagers to enable employment near by the industry and initiate their own business.	Skill development and vocational trainings for self-employment-oriented skill training programmes will be organized to ensure a sustainable career path with stable income enchantment for youth through multiple skilling, employment and entrepreneurship opportunities.	Rs. 324 Lakhs has been allocated for identification, counselling and sponsoring of youth for different skill development trainings and setting up a multi skill development institute in collaboration with the government (Existing infrastructure to be supported by the Government, renovation and running cost can be undertaken by TSF) as a part of CSR activities.
7)	Sarvjeet Singh, Village Kadiana Kalan	He requested to provide employment to differently abled person by providing training and inclusive employment opportunities for person with disability and to provide sports facility and education facility development.	The company will give priority to the locals people in employment based on the their skills. Special skill development program and financial assistance and will be provided differently abled persons for self-employment.	Rs. 324 Lakhs has been allocated for identification, counselling and sponsoring of youth for different skill development trainings and setting up a multi skill development institute

			Infrastructure facilities will be provided to the schools and community health centres.	in collaboration with the government (Existing infrastructure to be supported by the Government, renovation and running cost can be undertaken by TSF) as a part of CSR activities. Rs. 122 Lakhs has been allocated for development of infra structure facilities to educational institutes and Rs. 105 Lakhs has been allocated for development of training centre for PwDs on aspiration building, counselling, and employment opportunities in collaboration with the Government (Land for developing infrastructure or existing infrastructure support to be provided by the Govt.) of surrounding villages as a part of CSR activities.

THE ISSUES RAISED DURING THE PUBLIC HEARING AND ACTION PLAN ALONG WITH BUDGET

Corporate Environment Responsibility (CER) Activities with Budgetary Allocation & Timeline						
Actual progress will be based on site & front availability						
Sr.No		**Particulars**	**Year 1**	**Year 2**	**Year 3**	**Total**
			(Rs. In Lakh)			
1	**Corporate Environment Responsibility**	**Community led Solid and Waste Water management**				
a)		Solution for Community sewage treatment and waste management developed by TSF and managed by the Gram Panchayat	20.00	80.00	50.00	**150.00**
b)		Creating/Upgrading Community Park or Space	0.00	50.00	10.00	**60.00**

Corporate Environment Responsibility (CER) Activities with Budgetary Allocation & Timeline						
Actual progress will be based on site & front availability						
Sr.No		Particulars	Year 1	Year 2	Year 3	Total
			(Rs. In Lakh)			
c)		Installation of Solar Street lights at common places to ensure visibility at night and promote green energy	30.00	40.00	40.00	**110.00**
		CER Grand Total	**50.00**	**170.00**	**100.00**	**320.00**

As the general conditions are applicable to the industry, the industry presented that the distance of the industry from the MC Limits of Ludhiana is 6 Km. The Committee asked the industry to submit the hard copy of KML file to be superimposed on Master Plan of Ludhiana showing the distance of the industry from the MC, limits of the Ludhiana. The said KML file should be duly verified by the industry and the Environmental Consultant.

The Committee observed that the industry has not provided the details of APCDs like their containment system, air handling capacity, type & no. of bags in the bag filter, power consumption, cleaning technology (online/offline) etc. proposed for the EAF & LRF. The Committee asked the industry to provide the same.

The Committee observed that the industry has proposed to develop 33% green area in the land area of 15.36 Ha during the span of 5 years from 2024 to 2029. The Committee asked the industry to develop 33% green area within a period of 4 years by planting 24000 No. of broad leaf trees of native species. The industry agreed to the same. The Committee also observed that the budget provision of only Rs. 0.50 crores for green belt development proposed by the industry seems to be on lower side. The Committee asked the industry to check the same.

The Committee further observed that the industry has proposed to generate EAF Slag @ 81650 TPA and LF Slag @ 19700 TPA which will be supplied to manufacture cement/concrete blocks, pavers, tiles, construction of roads under proper agreement. Further, EAF & LF dust @ 12100 TPA and Sludge generation from Filter press @ 1975 TPA will be sent to authorized TSDF. Further, Mill Scale from CCM and RM @ 2653 TPA and broken refractories @ 4000 TPA will be supplied to suitable industry for re-use. The Committee asked the industry to submit the complete proposal to dispose of the above waste being generated during the process including agreement/capacity of the Re-cycling industry to undertake the above quantities of waste.

The Committee further observed that the industry has not taken into consideration the Number of vehicles of the adjoining industrial units during the assessment of traffic load. The Committee asked the industry to check the same.

The Committee further perused the issues raised during public hearing and reply given by the industry along with the action plan. The Committee observed that the cost proposed for addressing the issues raised during public hearing shall be incorporated in the EMP.

The Committee also discussed about the disposal of storm water from the project. The industry informed that the plot level of the proposed project is lower than the level of the storm water drainage system already laid by PSIEC. Further, it was informed that they are taking up the matter with PSIEC to address this issue. The Committee asked the industry to provide the scheme for the disposal of storm water from the project in consultation with PSIEC.

The Committee observed that the industry has proposed only LEDs in the energy saving measures. The Committee asked the industry to provide the details of energy saving measures besides providing LEDs.

After detailed deliberations, SEAC decided to defer the case till the receipt of reply of the below mentioned observations:

(i) The industry shall submit the hard copy of KML file to be superimposed on Master Plan of Ludhiana showing the distance of the industry from the MC, limits of the Ludhiana, duly verified by the industry as well as the Environmental Consultant.

(ii) The industry shall provide the details of APCDs like their containment system, air handling capacity, type & no. of bags in the bag filter, power consumption, cleaning technology (online/offline) etc. proposed for the EAF & LRF.

(iii) The industry shall submit the revised proposal for development of green area within a period of 4 years by raising 3-tier plantation of proposed number of plants, out of which not less than 24000 tall plants of minimum 6 ft height of broad leaf trees of native species having canopy shall be planted. The industry shall also revise the budget provision for green belt development, which presently works out to Rs. 131 per plant, to at least Rs 600 per plant. The industry shall also make provision of funds for the maintenance of the plantation for three years in the EMP.

(iv) The industry shall also raise plantation along both sides of the 16-meter approach road with broad leaf tree species having canopy under the Additional Environment Management Activities.

(v) The industry shall submit the concrete proposal to dispose of the solid waste (EAF Slag @ 81650 TPA, LF Slag @ 19700 TPA, EAF & LF Dust @ 12100 TPA, Mill Scale from CCM & RM @ 2653 TPA, Sludge Generation from Filter Presses @ 1975 TPA, Sludge from STP @ 4800 TPA, Broker Refractories @ 4000 TPA, Steel Scrap from CCM & Rolling Mill @ 3790 TPA) being generated during the process including agreement/capacity of the Re-cycling industry to undertake the above quantities of waste.

(vi) The industry shall submit the revised vehicular traffic load study after taking into consideration the incoming and outgoing vehicles from the adjoining industries.

(vii) The industry shall submit the details of energy saving measures besides providing LEDs.

(viii) The industry shall submit the complete proposal for the disposal of storm water in consultation with PSIEC.

(ix) The industry shall submit the proposal for management of domestic solid waste being generated from the industry.

(x) The industry shall submit the revised EMP after taking into consideration the cost proposed in the issues raised during public hearing and also propose activities under the head of Additional Environmental Activities.

(xi) The industry shall submit NOCs from the Gram Panchayat of the Village wherein community sewage treatment plant has been proposed to be installed.

(xii) The industry shall submit the undertaking in the prescribed format with regard to non-involvement of land area of the project under the provisions of the Forest Conservation Act, 1980 and Wildlife Protection Act, 1972.

(xiii) The industry shall provide the details of roof top rain water harvesting proposal with a potential of 32000 m^3/annum.

Deliberations during 251st meeting of SEAC held on 10.07.2023.

The meeting was attended by the following:

(i) Mr. Ajit Kothari, Chief Projects & Construction Sustainability M/s Tata Steel Ltd.
(ii) Mr. Suresh, Environmental Consultant M/s Vimta Labs.

The Committee allowed the Environmental Consultant to present the reply of the aforementioned observations. Thereafter, the Environmental Consultant presented the reply as under:

S. No	Observation	Reply
1	The industry shall submit the hard copy of KML file to be superimposed on Master Plan of Ludhiana showing the distance of the industry from the MC, limits of the Ludhiana, duly verified by the industry as well as the Environmental Consultant	Supporting documents submitted
2	The industry shall provide the details of APCDs like their containment system, air handling capacity, type & no. of bags in the bag filter, power consumption, cleaning technology (online/offline) etc. proposed for the EAF & LRF.	Air Pollution Control Device (APCD) details submitted.

3	The industry shall submit the revised proposal for development of green area within a period of 4 years by raising 3-tier plantation of proposed number of plants, out of which not less than 24000 tall plants of minimum 6 ft height of broad leaf trees of native species having canopy shall be planted. The industry shall also revise the budget provision for green belt development, which presently works out to Rs. 131 per plant, to at least Rs 600 per plant. The industry shall also make provision of funds for the maintenance of the plantation for three years in the EMP.	Revised Green area development proposal submitted.
4	The industry shall also raise plantation along both sides of the 16-meter approach road with broad leaf tree species having canopy under the Additional Environment Management Activities.	Agreed, Additional Management Activity submitted.
5	The industry shall submit the concrete proposal to dispose of the solid waste (EAF Slag @ 81650 TPA, LF Slag @ 19700 TPA, EAF & LF Dust @ 12100 TPA, Mill Scale from CCM & RM @ 2653 TPA, Sludge Generation from Filter Presses @ 1975 TPA, Sludge from STP @ 4800 TPA, Broker Refractories @ 4000 TPA, Steel Scrap from CCM & Rolling Mill @ 3790 TPA) being generated during the process including agreement/capacity of the Re-cycling industry to undertake the above quantities of waste.	Details Proposal along with supporting documents submitted.
6	The industry shall submit the revised vehicular traffic load study after taking into consideration the incoming and outgoing vehicles from the adjoining industries.	Detail Traffic sturdy submitted.
7	The industry shall submit the details of energy saving measures besides providing LEDs.	Energy saving initiatives details submitted.
8	The industry shall submit the complete proposal for the disposal of storm water in consultation with PSIEC.	PSIEC letter submitted.
9	The industry shall submit the proposal for management of domestic solid waste being generated from the industry.	Domestic solid waste management plan submitted.

10	The industry shall submit the revised EMP after taking into consideration the cost proposed in the issues raised during public hearing and also propose activities under the head of Additional Environmental Activities.	Revised EMP budget submitted.
11	The industry shall submit NOCs from the Gram Panchayat of the Village wherein community sewage treatment plant has been proposed to be installed.	Letter from gram panchayat submitted.
12	The industry shall submit the undertaking in the prescribed format with regard to non-involvement of land area of the project under the provisions of the Forest Conservation Act, 1980 and Wildlife Protection Act, 1972.	Undertaking letter submitted.
13	The industry shall provide the details of roof top rainwater harvesting proposal with a potential of 32000 m3/annum.	RWH proposal submitted.

The Committee perused the reply of the observations raised during last meeting and observed as under:

(i) Regarding reply to observation at Point no.1 in the above table, the Committee perused the KML file. The Project Proponent has shown the distance of the industry from the MC, limits of the Ludhiana as 5.19 Km. The Committee asked the Project Proponent to submit the revised KML file showing the coordinates of the nearest point of industrial unit and MC limits of Ludhiana. The Project Proponent submitted the same.

(ii) Regarding reply to observation at Point No. 3 for development of green area, the Project Proponent was asked to plant 24000 native tree species having broad leaves and canopies with plant size not less than 6 ft. The balance 12000 plants may be planted undershade. The Project Proponent was further asked to include species like Tun, Amaltas, Mulberry, Arjun, Jamun, Uttranjeeva, Kachnar etc in the scheme of plantation. The industry should revise the cost by including capital cost @ Rs 600 per plant and maintenance cost of Rs. 300/Plant for first year, @ Rs 200/Plant for second year and @ Rs 100/Plant for third year.

(iii) Regarding reply to observation at Point No. 4, the Committee asked the Project Proponent to revise the same by considering the capital cost @ Rs. 1000/Plant and recurring cost @ Rs. 300/Plant for first year, @ Rs 200/Plant for second year and @ Rs 100/Plant for third year. The Project Proponent submitted the revised proposal and also revised the EMP with details as under:

Sr.No	Area	Capital cost	Recurring cost

		(Rs. in Lakhs)	(Rs. in Lakhs)
I.	Environmental Protection Measures		
A	**Air Pollution**		
1	Air Pollution Control devices such as bag filters/ ESP	12000.00	300.00
2	Wind shield at the boundary	150.00	3.75
3	Monitoring equipment	100.00	2.50
4	Dust suppression through tankers, rain guns and fog cannon	75.00	2.00
5	Storage Sheds	5.00	0.12
6	Road sweeping machine	100.00	2.50
B	**Water Pollution**		
1	Storm water management and rainwater harvesting	100.00	2.50
2	ETP/STP	600.00	8.50
C	**Noise Pollution**		
1	Acoustic enclosures	125.00	3.20
D	**Greenbelt development**	216.00	216.00
E	**Occupational health**	50.00	1.25
	Total	13,521.00	539.82
II.	**Additional Environmental Activities**		
1	Solution for Community sewage treatment and waste management developed by TSF and managed by the Gram Panchayat	150.00	-
2	Creating/Upgrading Community Park or Space	60.00	-
3	Installation of Solar Street lights at common places to ensure visibility at night and promote green energy	110.00	-
4	Avenue Plantation: A total 1500 no's of plant spices will be planted on either side of the approach road for length of 2 km	15.00	9.00
	Total	**335.00**	**9.00**
	Grand Total	**13,856.00**	**548.82**
		i.e., Rs. 14404.82 Lakhs or Rs. 144.4 Cr	

(iv) The Committee observed that the Energy conservation measures proposed by the Project Proponent. After detailed discussions, the Committee asked the Project Proponent to revise the same. The Project Proponent submitted the same.

(v) The Committee deliberated upon the proposal regarding storm water management and disposal and observed that the Project Proponent is required to estimate the generation of storm water from roof top and surface run off and submit the scheme for its treatment & disposal. The Project Proponent submitted the revised proposal, wherein, the total storm water generation during monsoon period has been estimated as 3569 cubic meters which shall be stored in the pond of capacity 6000 cubic meter. The maximum quantity of the storm water shall be utilized for plant watering, tyre washing, dust suppression, slag cooling and firefighting and the surplus water shall be disposed of to the storm water drain. The Committee noted the same.

The Committee was satisfied with the proposal and 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 under EIA notification dated 14.09.2006 for

proposed 0.75 Millon Tonnes Per Annum (MTPA) Crude Steel Production at Industrial Plot A-1, Village Kadiana Khurd, Tehsil Ludhiana (East), District Ludhiana: -

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 31st March, 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December, 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these 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_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.

iv. The project proponent shall submit monthly summery 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. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytorid plants trench (designed based on the technology developed by CSIR-NEERI's) divided 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 15.36 ha (equal to 33% of the plant area) with native tree species in accordance with SEIAA guidelines. Total 36000 tall saplings (minimum 6 feet height) of indigenous species such as Tun, Amaltas, Mulberry, Arjun, Jamun, Uttranjeeva, Kachnar 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, 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 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 138.56 Crore towards the capital cost and Rs 5.48 Crore/annum towards recurring cost including the environmental monitoring cost for the implementation of EMP and Additional Environmental Activities 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_{10}, SO_2, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.

v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.

vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

vii. The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.

viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the 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.

Item No. 251.03: Application for Environmental Clearance for Expansion of Group Housing Project namely "Acme Shivalik Heights" at Sector-127, Kharar- Landran Road, Distt. S.A.S Nagar, Punjab by M/s Acme Heights Infrastructure Pvt. Ltd. (SIA/PB/MIS/273736/2022)

The Project Proponent was granted Environmental Clearance vide letter No. SEIAA/2014/6105 dated 24.01.2014 for development of a group housing project namely "Shivalik Height" at Sector 127, Landran-Kharar Road, District SAS Nagar. The total land area of the project is 33,993.624 sq.m having built up area of 33915.47 sqm.

The project proponent has applied for obtaining of Environmental Clearance for Expansion of Group Housing Project namely "Acme Shivalik Heights" at Sector-127, Kharar- Landran Road, Distt. S.A.S Nagar, Punjab. The total land area of the project is 17,069.64 sq.m having built-up area of 44,826.75 sq.m. The project is covered under category 8(a) of the schedule appended with the EIA Notification, 2006.

The project proponent has submitted the Checklist, Conceptual Plan, EMP, Form-I/IA and other additional documents on online portal. He has deposited Fees of Rs. 21,830/- vide NEFT – 000106518334 dated 16.07.2021. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA. The chronology related to the submission of the case is as under:

Sr. No.	**Description**	**Date**
1.	Submission of the application through Parivesh Portal	19.05.2022
2.	Forwarded by SEIAA to SEAC	28.06.2022
3.	EDS raised	07.07.2022
4.	Re-submission of the application along with reply of the EDS	17.06.2023

The Project Proponent has submitted a copy Joint Development Agreement executed between M/s Shivalik Properties & Developers and M/s Acme Height Infrastructure Pvt Ltd. on 31.03.2017. Accordingly, the name of the project has been changed to "Acme Shivalik Heights". The layout of the project has been approved by MC, Kharar in the name of Acme Shivalik Heights.

The Project Proponent has submitted a copy of the certified compliance report of the conditions of the earlier Environmental Clearance granted to it. The said copy of the certified compliance report was issued by the Regional Office of MoEF&CC and is submitted.

The construction status report submitted by Punjab Pollution Control Board vide letter No. 4770 dated 03.08.2022 is as under:

"The proposed site of the subject cited project was visited by officer of the Board on 15/7/2022 and it was observed that:

1. *The proposed site is located on Sector-127 on Kharar- Road Tehsil Kharar, District SAS Nagar.*
2. *The GPS coordinates of the site are 30°43'41.49"N, 76°39'48.28"E.*
3. *The project proponent has completed construction work of entire boundary wall of the project with bricks.*
4. *The project proponent has completed structure and finishing work of 96 flats of 5 + 6 storied building consisting of 3 BHK + Servant room. Presently, 50 families are residing in it. The project proponent has installed adequate treatment facility for the treatment of domestic effluent and same was in operation at the time of visit. The project proponent has not started construction work above the 5 + 6 storied building yet.*
5. *The proposed site is conforming to the sitting guidelines laid down by the Government of Punjab, Department of Science Technology and Environment vide order dated 25/7/2008 as amended on 30/10/2009.*

It is further intimated that the capacity of the existing terminal STP of Kharar is already short for the present domestic effluent being generated from the area and more effluent load can't be permitted without the adequate capacity of the terminal STP. Further, the project proponent has not submitted any alternate scheme for the disposal of treated effluent."

Deliberations during 251st meeting of SEAC held on 10.07.2023.

The meeting was attended by the following:

(i) Mr. Sandeep Garg, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.
(ii) Mrs. Jyoti Rani, EC Coordinator, M/s Eco laboratories

The Committee allowed the Environmental Consultant to present the salient features of the application proposal. Thereafter, the Environmental Consultant presented the case as under:

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	Expansion of Group Housing Project "Acme Shivalik Heights" by M/s Acme Heights Infrastructure (P) Ltd.
1.2	Proposal:	SIA/PB/MIS/273736/2022

<table>
<tr><td>1.3</td><td>Location of Project:</td><td>Sector-127, Kharar- Landran Road, Distt. S.A.S Nagar, Punjab.</td></tr>
<tr><td>1.4</td><td>Details of Land area & Built up area:</td><td>Site area: 17,069.64 sq.m.
Built up area after expansion: 44,826.75 sq.m.

<u>Table: Comparison of Area Statement w.r.t Earlier EC & as per revised approved layout</u>
<table><tr><th>Sl. No.</th><th>Description</th><th>Area as per Earlier EC</th><th>Proposed</th><th>Area as per revised approved Layout</th></tr><tr><td>1.</td><td>Plot Area</td><td>33,993.624 sqm (8.4 acres*)</td><td>-</td><td>4.218 acres</td></tr><tr><td>2.</td><td>Built-up area</td><td>33,915.47 sq.m.</td><td>10,911.28 sq.m.</td><td>44,826.75 sq.m.</td></tr></table>
* Plot area was inadvertently mentioned as 33,993.624 sq.m. in place of 17,069.64 sq.m.</td></tr>
<tr><td>1.5</td><td>Category under EIA notification dated 14.09.2006</td><td>8(a)</td></tr>
<tr><td>1.6</td><td>Cost of the project</td><td>Rs. 64.83 Crores</td></tr>
<tr><td>2.</td><td colspan="2">Site Suitability Characteristics</td></tr>
<tr><td>2.1</td><td>Whether project is suitable as per the provisions of Master Plan:</td><td>As per Master Plan of Kharar, project site falls within the residential zone. Copy of Master plan of Kharar showing the project site is enclosed with the application.</td></tr>
<tr><td>2.2</td><td>Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)</td><td>Environmental Clearance already granted and the project is under expansion without increase in the land area.</td></tr>
<tr><td>3</td><td colspan="2">Forest, Wildlife and Green Area</td></tr>
</table>

<table>
<tr><td>3.1</td><td>Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:</td><td>Undertaking to the effect that project does not involve any forest land not submitted.</td></tr>
<tr><td>3.2</td><td>Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA), 1900.</td><td>Undertaking stating the same not submitted.</td></tr>
<tr><td>3.3</td><td>Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:</td><td>Yes. City Bird Sanctuary is located at approx. 11.2 km & Sukhna Wildlife Sanctuary at approx. 16 km from the project location. Thus, NBWL clearance is not required.</td></tr>
<tr><td>3.4</td><td>Whether the project falls within the influence of Eco-Sensitive Zone or not.</td><td>Yes. Project falls outside eco-sensitive zone. Thus, NBWL Clearance is not required.</td></tr>
<tr><td>3.5</td><td>Green area requirement and proposed No. of trees:</td><td>Area under green: 2606.48 sq.m.
Proposed trees to be planted: 220 nos.</td></tr>
<tr><td>4.</td><td colspan="2">Configuration & Population</td></tr>
<tr><td>4.1</td><td>Proposal & Configuration</td><td>264 flats

<u>Table: Area Statement as per revised approved layout plan</u>
<table><tr><th>S. No.</th><th>Description</th><th>Area (in sq.m.)</th></tr><tr><td>1.</td><td>Total Site area</td><td>17,069.64 sq.m.
(or 4.218 acres)</td></tr><tr><td>2.</td><td>Permissible Ground coverage (@ 30%)</td><td>5,120.89</td></tr></table></td></tr>
</table>

		3.	Proposed Ground coverage (@ 28.01%)	4,780.92
		4.	Permissible FAR (@ 200%)	34,139.28
		5.	Achieved FAR (@ 198.32%)	33,852.82
		6.	Non-FAR	10,973.93
		7.	**Built-up area**	**44,826.75**
		8.	Proposed Green area	2,606.48

Table-5: Block wise details as per revised layout plan

Sr. No.	Item	No. of Floors	Total no. of Flats	Total FAR including Stilt Floor (in sq.m.)	Non FAR (in sq.m.)	Total Built up Area (in sq.m.)
1.	Block-01 (3 BHK) (3 nos Tower)	S+10 Floors	120	13,365.82	4,637.98	18,003.8
2.	Block-02 (3 BHK)(6 nos Tower)	S+6 Floor	144	20,487.00	6335.95	26,822.95
	Total		**264**	**33,852.82 sq.m.**	**10,973.93 sq.m.**	**44,826.75 sq.m.**

4.2 Population details

1452 persons

Table: Comparison of Population w.r.t EC accorded and as per revised approved layout

Sl. No.	Description	EC accorded	Proposed	As per Revised Approved Layout
1.	Population	1,180 Persons	272 Persons	1,452 Persons

Table: Population w.r.t Revised Approved Layout

S.No.	Description	Criteria	Dwelling Units	No. of Persons
1.	Residential Population	5 persons per D.U.	264 D.U.	1,320
2.	Floating Population	10% of residential	-	132
	Total Estimated Population			**1,452 Persons**

5	**Water**	
5.1	Total fresh water requirement:	139 KLD

Table: Comparison of Water Demand & Wastewater Generation Details w.r.t. EC Accorded and as per Revised Approved Layout

S.No.	Description	EC Accorded	Proposed	Total (After expansion)
1.	**Domestic Water Demand**	160 KLD	24 KLD	184 KLD
2.	**Fresh Water Demand**	118 KLD	21 KLD	139 KLD
3.	**Wastewater generated**	128 KLD	27 KLD	155 KLD
4.	**Proposed STP capacity**	Proposed STP of 150 KLD capacity	-	Proposed STP of 200 KLD capacity; out of which STP of 150 KLD is already installed

<table>
<tr><td></td><td></td><td>
<u>Table: Overall Water Demand & Wastewater Generation</u>

<u>Details as per Approved Layout</u>
<table>
<tr><th>S. No</th><th>Description</th><th>Population</th><th>Criteria for water demand (in lpcd)</th><th>Water Demand</th></tr>
<tr><td>1.</td><td>Residential Population</td><td>1,320</td><td>135</td><td>178 KLD</td></tr>
<tr><td>2.</td><td>Floating Population</td><td>132</td><td>45</td><td>6 KLD</td></tr>
<tr><td></td><td colspan="3">Total Domestic Water req.</td><td>184 KLD</td></tr>
<tr><td></td><td colspan="3">Total flushing water req. for 192 flats
@ 45 lpcd for residential population (192x 5= 960)
@20 lpcd for floating population (10% of 960= 96)</td><td>45 KLD
43
2</td></tr>
<tr><td></td><td colspan="3">Wastewater generated (@ 80%)</td><td>155 KLD
(147 + 8*)</td></tr>
<tr><td></td><td colspan="3">Capacity of STP proposed</td><td>200 KLD</td></tr>
<tr><td></td><td colspan="3">Treated Water (@ 98%)</td><td>152 KLD</td></tr>
<tr><td></td><td colspan="3">Horticulture demand for an area of 2,606.48 sq.m.
• Summer (@ 5.5. lt./sq.m./day)
• Winter (@ 1.8 lt./sq.m./day)
• Monsoon (@ 0.5. lt./sq.m./day)</td><td>14 KLD
5 KLD
1 KLD</td></tr>
</table>
</td></tr>
<tr><td>5.2</td><td>Source:</td><td>Borewell Supply</td></tr>
<tr><td>5.3</td><td>Whether Permission obtained for abstraction/supply of the fresh water</td><td>Water supply will be provided from the borewell (1 No.) for which approval has been obtained from Punjab Water Regulation and Development Authority (PWRDA).</td></tr>
</table>

<table>
<tr><td></td><td>from the Competent Authority (Y/N)
Details thereof</td><td></td></tr>
<tr><td>5.4</td><td colspan="2">Cumulative Details:

<table>
<tr><th>Sr. No.</th><th>Total water Requirement</th><th>Total wastewater generated</th><th>Treated wastewater</th><th>Flushing water requirement</th><th>Green area requirement</th><th>Into sewer</th></tr>
<tr><td>1.</td><td>184 KLD</td><td>155 KLD</td><td>152 KLD</td><td>45 KLD</td><td>Summer: 14 KLD
Winter: 5 KLD
Monsoon: 1 KLD</td><td>Summer: 85 KLD
Winter: 94 KLD
Monsoon : 106 KLD</td></tr>
</table>
*Project Proponent submitted a copy of certificate no. 1648 dated 25.01.2013 issued by MC kharar, wherein it has been mentioned that Municipal Council Kharar has no objection if M/s Shivalik Infrastructure & Developers Pvt Ltd of namely Shivalik Heights discharge its treated water as per norms made by Punjab Pollution Control Board at their own cost into the sewer system of Municipal Council Kharar after depositing charges framed by Govt. and as per Govt. instructions and rules of the Department of Local Govt.</td></tr>
<tr><td>5.5</td><td>Rain water harvesting proposal:</td><td>4 Rain water recharging pits have been proposed for artificial rain water recharge within the project premises. Services layout showing 4 rain water recharging pits is enclosed along with application.</td></tr>
<tr><td>6</td><td colspan="2">Air</td></tr>
<tr><td>6.1</td><td>Details of Air Polluting machinery:</td><td>5 DG Sets (4 No. of capacity 250 KVA each and 1 No. of capacity 200 KVA each). 1 DG set of 125 KVA capacity has already been installed.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.</td></tr>
<tr><td>7</td><td>Waste Management</td><td></td></tr>
<tr><td>7.1</td><td>Total quantity of solid waste generation</td><td>554 kg/day</td></tr>
</table>

<table>
<tr><td>7.2</td><td>Whether Solid Waste Management layout plan by earmarking the location as well as area designated for installation of Mechanical Composter and Material Recovery Facility submitted or not.</td><td>Solid waste management area has been provided and shown in layout plan. 1 Mechanical Composter of 250 kg will be installed within the project premises.</td></tr>
<tr><td>7.3</td><td>Details of management of Hazardous Waste.</td><td>Hazardous Waste will be managed & disposed off to authorized vendors as per the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and its amendments.</td></tr>
<tr><td>8</td><td>Energy Saving & EMP</td><td></td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>Total power demand for the project will be 1582.22 KW which will be provided by Punjab State Power Corporation Limited (PSPCL).

<u>Table: Details of Power Load and DG set details as per revised approved layout</u>

<table>
<tr><th>Sl. No.</th><th>Description</th><th>EC Accorded</th><th>As per revised Approved Layout</th></tr>
<tr><td>1.</td><td>Power Load</td><td colspan="2">1,582.22 KW</td></tr>
<tr><td>2.</td><td>DG sets</td><td colspan="2">5 DG Sets (4 No. of capacity 250 KVA each and 1 No. of capacity 200 KVA each)#</td></tr>
</table>
</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>Net energy saved will be 16.9 say 17 KW. Details of energy savings is attached along with the application</td></tr>
<tr><td>8.3</td><td>Details of activities under Environment Management Plan.</td><td>Details of activities under Environment Management Plan is given below:
<u>Table: Expenditure on typical Environmental Measures (During Construction Phase)</u></td></tr>
</table>

S.No.	Title	Capital Cost (in Lakhs)	Recurring Cost (in Lakhs per Annum)
1.	Air Pollution Control	10	1
2.	Water Pollution Control/ STP	30	1.5
3.	Noise Pollution Control	2	0.5
4.	Landscaping	5	2.5
5.	Solid Waste Management	10	1.5
6.	Rain water Recharging	7	0.5
7.	Energy Conservation	25	1
8.	Miscellaneous (Appointment of Consultants & Management of Environment Cell)	9	2
Total		**98**	**10.5**

Table: Expenditure on typical Environmental Measures (During Operation Phase)

S.No.	Title	Recurring Cost (in Lakhs per Annum)
1.	Air Pollution Control	0.5
2.	Water Pollution Control/ STP	3
3.	Noise Pollution Control	0.5
4.	Landscaping	2.5
5.	Solid Waste Management	2
6.	Rain water Recharging	0.5
7.	Energy Conservation	2
8.	Miscellaneous (Appointment of Consultants & Management of Environment Cell)	2

		Total	**13**

During meeting, the Committee perused the certified compliance report dated 12.04.2023 furnished by Regional Office of MoEF&CC and reply of the observations dated 16.06.2023 furnished by the Project Proponent and observed as under:

1. As per earlier Environmental Clearance granted vide SEIAA letter dated 24.01.2014, the Project Proponent proposed to spend Rs. 56 lacs towards Corporate Social Responsibility. The Project Proponent informed that it has incurred an expenditure of Rs. 1.36 Lacs against Rs. 56 lacs. The Committee observed that the Project Proponent has only spent around 3 % even after the lapse of 9 years.
2. The Project Proponent has mentioned that 244 trees comprising of Khajoor Palm, Chandani, Ficus, Bottle Palm, Madagascar Periwinkle, Champa, Ficus Benjamine shall be planted with in the project. In this regard, the Committee observed that the Project Proponent has not proposed any native/local species of tree to be planted within the project. The Committee asked the Project Proponent to revise the proposal for planting only native species like Arjun, Neem, Pipal, Jamun etc. The Project Proponent agreed to the same.

In view of above, the Committee asked the Project Proponent to submit the timelines for complying with the observations raised by the Regional Office, MoEF&CC by way of affidavit. The Project Proponent submitted the affidavit in this regard.

Thereafter, the Project Proponent apprised the Committee that the excess treated wastewater generated from the project shall be discharged into sewer line of Shivalik City, which is further connected with the main sewer line of MC Kharar. In this regard, the Project Proponent submitted permission from the Shivalik City for allowing the discharge of the project namely “Acme Shivalik Heights” into Shivalik City. The Committee took a copy of the said permission on record.

The Committee perused the letter issued by MC Kharar on dated 25.01.2013 in view of the comments made by PPCB vide letter dated 3.08.2022 regarding disposal of treated waste water. The Committee asked the Project Proponent to submit an affidavit stating that no possession shall be given to the flat owners falling in the expansion proposal till the connection of project sewer with MC Sewer/STP of adequate capacity. The Project Proponent submitted the same.

The Committee further observed that the flushing water requirement for the 264 No. of flats having population 1320 persons and 132 floating persons comes out as 61.6 KLD. However, the Project Proponent has taken flushing water requirement of 45 KLD. In this regard, the Project Proponent submitted the revised water balance. The Committee took a copy of the same on record.

The Committee was satisfied with the presentation given by the Project Proponent and after detailed deliberations, the Committee decided to award **'Silver Grading'** to the project proposal and decided to forward the application of the project proponent to SEIAA with the recommendation to grant Environmental Clearance for Expansion of Group Housing Project namely "Acme Shivalik Heights" at Sector-127, Kharar- Landran Road, Distt. S.A.S Nagar, Punjab subject to the following standard 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 firefighting 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 freshwater use shall not exceed the proposed requirement as mentioned in the application proposal.

v) 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.

vi) 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.

vii) The project proponent shall ensure a safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided, if required.

viii) 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.

ix) 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.

x) 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.

xi) 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.

xii) 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.

xiii) 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.

xiv) 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:

Sr. No	Nature of the Stream	Color code
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)	Stormwater	Orange

xv) Water demand during construction should be reduced by the use of pre-mixed concrete, curing agents, and adopting other best practices.

xvi) 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.

xvii) All recharge should be limited to shallow aquifers.

xviii) 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.

xix) 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.

xx) 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.

xxi) 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.

xxii) 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.

xxiii) Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.

xxiv) 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 daylighting 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 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.

iii) 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

i) 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.

Item No. 251.04: Application for amendment in Environmental Clearance under EIA Notification dated 14.09.2006 for steel manufacturing unit namely M/s Vardhman Adarsh Ispat Pvt Ltd located in the revenue estate of Village Ambey Mazra-Mandi Gobindgarh, District Fatehgarh Sahib, Punjab (Proposal No. SIA/PB/IND/299690/2023).

The industry was granted Environmental Clearance vide letter No. SEIAA/2019/717 dated 22.08.2019 for total production of 2,00,000 MTA of billets, steel ingots & blooms by installing induction furnace (2 No. 12 TPH each) and Arc furnace (1X 15 TPH) along with 1,20,000 MTA of TMT bars, round bars, wire, flats, strip by rolling mill and reheating furnace located at revenue estate of Village Ambey Mazra-Mandi Gobindgarh, District Fatehgarh Sahib, Punjab

The industry was granted amendment in Environmental Clearance vide letter No. 896 dated 07.09.2022. The industry has now applied for obtaining amendment in Environmental Clearance under EIA Notification dated 14.09.2006. The industry has proposed to acquire additional land for green area outside the industrial premises at a distance of 122m. As per amendment, the green area earlier proposed within the project premises has been reduced to 18% and remaining area shall be developed in the additional land area.

The industry has submitted Form-4, PFR and other relevant documents through Parivesh Portal. The industry has submitted Rs. 33,500/- vide NEFT No. N116232432806272 dated 26.04.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

Deliberations during 249th meeting of SEAC held on 12.06.2023.
The meeting was attended by the following:

(i) Mr. Ashwani Garg, Director M/s Vardhman Adarsh Ispat Pvt Ltd
(ii) Mr. Sandeep Garg, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.
(iii) Mrs. Jyoti Rani, EC Coordinator, M/s Eco laboratories Pvt Ltd.

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

Sr. No.	Description	EC accorded	1st EC amendment 2022	Additional/ Proposed	2nd EC amendment proposed
1.	**Project area**	28,471.25 sq.m (6.95 acres)	62,906.35 sq.m (15.46 acres)	No change	62,906.35 sq.m (15.46 acres)
2.	**Production capacity**	Billets, Ingots & Blooms @ 2,00,000 TPA	Billets, Ingots & Blooms @ 2,00,000 TPA and	No change	Billets, Ingots & Blooms @ 2,00,000 TPA

		and TMT Bars, Round Bars, Wire, Flats, Strips @ 1,20,000 TPA	TMT Bars, Round Bars, Wire, Flats, Strips @ 1,20,000 TPA		and TMT Bars, Round Bars, Wire, Flats, Strips @ 1,20,000 TPA
3.	**Machinery**	• 2 IFs × 12 TPH • 1 AF × 15 TPH • Rolling Mill	• 1 IF × 39 TPH • Rolling Mill	No change	• 1 IF × 39 TPH • Rolling Mill
4.	**Project Cost**	Rs. 25 Crores	Rs. 27.97 Crores	Rs. 3.35 Crores	Rs. 31.32 Crores
5.	**Green area**	1,858.061 sq.m within project premises	20,762.09 sq.m within project premises	Shifting of 15% green area outside of project premises	20,762.09 sq.m • 11,329 sq.m within project (18%) • 9,442.37 sq.m outside project (15%)

During meeting, the Committee observed that the industry is an existing unit and was granted Environmental Clearance on 22.08.2019 subject to the condition that the industry shall develop green belt in an area of 33% of the plant area with native tree species in accordance with the CPCB guidelines. The green belt shall inter alia cover the entire periphery of the plant.

The Committee observed that even after the lapse of 4 years from the date of grant of Environmental Clearance, compliance of the condition to develop 33% green area was found to be very poor. The Committee asked the industry to submit proper justification as to why the green area has not been developed within the industry even after a lapse of 4 years.

The Committee further perused the land ownership documents submitted with regard to the additional land to be acquired for development of green area in 5.56 acres. However, as per the layout plan (Drawing No. 6), total land area to be acquired for green area is 28844.33 sqm (7.12 acres). The industry is required to submit the land ownership documents of the remaining land area of 1.56 acre.

After detailed deliberations, SEAC decided to defer the case till receipt of the following observations:

(i) The industry shall submit proper justification as to why the work for development of the green area has not been started within the premises of industry even after the lapse of 4 years from the date of grant of Environmental Clearance.

(ii) The industry shall submit the land ownership document of remaining land area 1.56 acres out of total 7.12 acres proposed to be acquired for green area development.

Deliberations during 251st meeting of SEAC held on 10.07.2023.

The meeting was attended by the following:

(i) Mr. Ashwani Garg, Director M/s Vardhman Adarsh Ispat Pvt Ltd (Through VC)
(ii) Mr. Sandeep Garg, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.
(iii) Mrs. Jyoti Rani, EC Coordinator, M/s Eco laboratories Pvt Ltd.

SEAC allowed the Environmental Consultant of the Promoter Company to present the reply of the aforementioned observations. Thereafter, the Environmental Consultant presented as under:

Sr. No.	Observation	Reply
1.	The industry shall submit proper justification as to why the work for development of the green area has not been started within the premises of industry even after the lapse of 4 years from the date of grant of Environmental Clearance.	Commencement of the work for Expansion w.r.t Environmental Clearance granted was on hold during COVID-19 period. Thereafter, development of green area was initiated within the project premises; photographs of the green area developed so far is submitted. But, due to ongoing construction activities for the proposed shed, certain plant saplings were not able to survive. Meanwhile, planning of the project has been revised and as per revised planning, 20,762.09 sq.m of green area @ 18% proposed within project premises and remaining 15% green area will be developed on additional land acquired. Further, we wish to highlight that development of green area is being initiated in the current monsoon season.

<table>
<tr>
<td>2.</td>
<td>The industry shall submit the land ownership document of remaining land area 1.56 acres out of total 7.12 acres proposed to be acquired for green area development.</td>
<td>The land summary details is given below:
<table>
<tr><th>S. No.</th><th>Land details</th><th>Land (in acres)</th><th>Registry document No.</th></tr>
<tr><td>1.</td><td>3 Kanal 15 Marla</td><td>0.47 acres</td><td>2022-23/24/1/2366</td></tr>
<tr><td>2.</td><td>12 Kanal 8 Marla</td><td>1.55 acres</td><td>2022-23/24/1/2365</td></tr>
<tr><td>3.</td><td>40 Kanal 17 Marla</td><td>5.11 acres</td><td>2022-23/24/1/2367</td></tr>
<tr><td colspan="2">Total</td><td>7.13 acres</td><td>-</td></tr>
</table>
Complete ownership document is submitted</td>
</tr>
</table>

The Committee perused the reply submitted by the Project Proponent regarding justification for green area development and found the same not satisfactory. The Committee asked the Project Proponent to develop the proposed green area during the ongoing monsoon season. The Project Proponent agreed to the same.

After detailed deliberations, the Committee decided to defer the case till the Project Proponent develop the proposed green area during the ongoing monsoon season.

Item No. 251.05: Application for amendment in Environment Clearance for manufacturing of Steel unit located at Village Ambey Majra, Sirhind Side, Mandi Gobindgarh, District Fatehgarh Sahib by M/s Kanha Concast (Proposal No. SIA/PB/IND/299577/2023).

The industry was granted Environmental Clearance vide Letter No. DECC/SEIAA/2020/1931 dated 08.09.2020 for production of Ingots/Billets @ 1,10,000 TPA with 2 Induction Furnaces of capacity 12 TPH each and Flat bars, TMT bars, Wire rods and Rounds @ 1,04,500 TPA with Rolling Mill located at revenue estate of Village Ambey Majra, Chatarpura Road, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab.

The industry has applied for obtaining amendment in Environmental Clearance under EIA Notification dated 14.09.2006. The industry has proposed changes in the project area w.r.t EC accorded. The industry has been purchased additional land area of 10,350.15 sq.m (2.55 acres). Thus, after amendment, total area of the project becomes 22,638.80 sq.m (5.58 acres). However, no changes have been done in the production capacity or capacity of Induction Furnace w.r.t EC accorded.

The industry has submitted Form-4, PFR and other relevant documents through Parivesh Portal. The industry has submitted Rs. 16,200/- vide NEFT No. UBIN0903191 dated 21.04.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

Deliberations during 249th meeting of SEAC held on 12.06.2023.

The meeting was attended by the following:

(i) Mr. Prem Jindal, Partner M/s Kanha Concast.
(ii) Mr. Sandeep Garg, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.
(iii) Mrs. Jyoti Rani, EC Coordinator, M/s Eco laboratories Pvt Ltd.

SEAC allowed the Environmental Consultant of the Promoter Company to present the salient features of the project before the Committee as under:

Sr. No.	Description	EC accorded	Proposed/ Additional	Total after amendment
1.	**Plot area**	12,293.21 sq.m (3.03 acres)	10,350.15 sq.m (2.55 acres)	22,638.80 sq.m (5.58 acres)
2.	**Machinery**			

	Induction Furnace	2 × 12 TPH	No change	2 × 12 TPH
	Rolling Mill	1 No.	No change	1 No.
3.	**Production & Production capacity**	1,10,000 TPA of Ingots/ Billets and 1,04,500 TPA of Flat bars, TMT bars, Wire rods and Rounds	No change	1,10,000 TPA of Ingots/ Billets and 1,04,500 TPA of Flat bars, TMT bars, Wire rods and Rounds
4.	**Cost**	Rs. 21.07 Crores	Rs. 1.62 Crores	Rs. 22.69 Crores

During meeting, the Committee observed that the industry is an existing unit and was granted Environmental Clearance on 08.09.2020 subject to the condition that the industry shall develop green belt in an area of 33% of the plant area with tree species in accordance with the SEIAA guidelines. The green belt shall inter alia cover the entire periphery of the plant.

The Committee observed that even after the lapse of 3 years from the date of grant of Environmental Clearance, compliance of the condition to develop 33% green area was found to be very poor. The Committee asked the industry to submit proper justification as to why the green area has not been developed within the industry even after a lapse of 3 years.

After detailed deliberations, SEAC decided to defer the case till receipt of the following observations:

(i) The industry shall submit proper justification as to why the work for development of the green area has not been started within the premises of industry even after the lapse of 3 years from the date of grant of Environmental Clearance.

Deliberations during 251st meeting of SEAC held on 10.07.2023.

The meeting was attended by the following:

(i) Mr. Prem Jindal, Partner M/s Kanha Concast. (Through VC)
(ii) Mr. Sandeep Garg, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.
(iii) Mrs. Jyoti Rani, EC Coordinator, M/s Eco laboratories Pvt Ltd.

SEAC allowed the Environmental Consultant of the Promoter Company to present the reply of the aforementioned observations before the Committee as under:

Sr. No.	Observation	Reply
1.	The industry shall submit proper justification as to why the work for development of the green area has not been started within the premises of industry even after the lapse of 3 years from the date of grant of Environmental Clearance.	tly land has been developed under green area as per Environmental Clearance accorded. Photographs showing the same is submitted. Thereafter, planning of the project has been revised and green area earlier proposed will be shifted on the additional adjoining land acquired. However, we wish to highlight that development of remaining green area is being initiated in the current monsoon season.

The Committee perused the reply submitted by the Project Proponent regarding justification for green area development and found the same not satisfactory. The Committee asked the Project Proponent to develop the proposed green area during the ongoing monsoon season. The Project Proponent agreed to the same.

After detailed deliberations, the Committee decided to defer the case till the Project Proponent develop the proposed green area during the ongoing monsoon season.

Item No. 251.06: Application for obtaining Environmental Clearance for establishment of Group Housing & Commercial Project at Village Balomajra (H.B. No. 32), Distt. SAS Nagar, Mohali (Punjab) by M/s Aerofront Developers (SIA/PB/INFRA2/422507/2023)

The project proponent has applied for obtaining Environmental Clearance for establishment of Group Housing & Commercial Project at Village Balomajra (H.B. No. 32), Distt. SAS Nagar, Mohali (Punjab). The total land area of the project is 57,469.408 sqm (14.201 acres) having built-up area of 1,43,008.07 sq.m. The Project is covered under category 8(a) of the schedule appended with the EIA Notification dated 14.09.2006.

The project proponent has submitted the online form, Conceptual Plan and other additional documents through Parivesh Portal. He has deposited Rs. 2,86,020/- vide UTR no. SBINR12023032038322741 dated 20.03.2023, as checked & verified by the supporting staff of SEIAA.

As per the proposal, the project has been segregated in three phases out of which Phase-1 comprised of 5 residential towers with 235 DU and club, phase-2 shall be reserved for future expansion and phase-3 shall be comprised of 2 residential towers with 162 DU, club and commercial block.

Punjab Pollution Control Board vide letter no. 3396 dated 15.05.2023 furnished construction status report as under:

"The proposed project site of the subject cited project was visited by officer of the Board on 22/4/2023. The point wise reply of the comments sought by SEIAA relating to the proposal of the subject cited project is given as under:

Sr. No.	***Report of point sought by SEIAA***	***Remarks***
A.	*Construction status of the proposal*	*1. The proposed site is situated adjoining TDI building project at sector 118, Mohali.* *2. The project proponent has earmarked approx. 80% boundary of the project with brick wall.* *3. The proposed site is divided into 02 parts by road.* *4. The project proponent has not started any construction activity as well as digging at the site.*
B.	*Status of physical structures within 500 m radius of the site including*	*The following units are located within 500 m radius of the unit:*

	the status of industries, drain, river, eco sensitive structure, if any.	1. *No rice sheller/ stone crusher/ hot mix plant/ cement grinding unit/ brick kiln exist within 500 mtr from the proposed site.* 2. *There is no jaggery, petroleum outlet exist within 100 mtr of the site.* 3. *There is no drain / nallah/ choe exist within 100 mtr of the site.* 4. *There is no common bio-medical treatment facility within 500 mtr.* 5. *There is no eco sensitive area within 500 mtr.* 6. *There is no MAH industry existing within 300 mtr.* 7. *High tension wire is crossing over the proposed site.*
C.	*Whether the site meets with the prescribed criteria for setting up of such projects.*	*The proposed site is complying with the sitting guidelines framed by the Government of Punjab for such project.*

It is pertinent to mention here that the proposed site is situated within the jurisdiction of GMADA. However, the terminal STP installed in SAS Nagar (Mohali) by GMADA authorities is not adequate to cater the quantity of additional effluent of this project. The upgradation of existing STP installed by GMADA authorities is yet to be made. Further, the project proponent has not submitted any alternate scheme for the disposal of treated effluent."

Deliberations during 250th meeting of SEAC held on 20.06.2023.

The meeting was attended by the following:

(i) Mr. Harjinder Singh, Manager M/s Aerofront Developers
(ii) Mrs. Jyoti Rani, EC Coordinator, M/s Eco laboratories Pvt Ltd.

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

Sr. No.	**Description**	**Details**
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	Mixed development Group housing and commercial project to be developed by M/s Aerofront Developers.

1.2	Proposal:	SIA/PB/INFRA2/422507/2023
1.3	Location of Project:	Balomajra (H.B. No. 32), Distt. SAS Nagar, Mohali (Punjab).
1.4	Details of Land area & Built up area:	Total Project Site Area = 57,702.61 sq.m (14.2 Acres) • Phase 01: 23,046.40 sq.m. (5.69 Acres). • Phase 02: 23,462.518 sq.m. (5.803 Acres) (Reserved for future expansion) • Phase 03: 10,960.49 sq.m. (2.708 Acres). Built-up Area = 1,43,008.07 sq.m.
1.5	Category under EIA notification dated 14.09.2006	8(a)
1.6	Cost of the project	Rs. 265.47 Crores
2.	**Site Suitability Characteristics**	
2.1	Whether project is suitable as per the provisions of Master Plan:	Yes, the project falls in mixed use as per Master Plan of SAS Nagar.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	A copy of permission for change of land use for total land measuring 14.201 acres issued by Department of Town & Country Planning, Punjab vide Memo No. 381-DTP (SAS Nagar)/CLU/2022/008 dated 10.03.2023 for mixed development group housing and commercial project submitted.
3	**Forest, Wildlife and Green Area**	
3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	No forest land is involved in the project. Self-declaration in this regard is submitted.
3.2	Whether the project required clearance under the provisions of Punjab Land	Project is not covered under PLPA, 1900. The letter in this regard from District Forest Officer issued vide no. 5375 dated 03.12.2021 submitted.

<table>
<tr><td></td><td>Preservation Act (PLPA), 1900.</td><td></td></tr>
<tr><td>3.3</td><td>Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:</td><td>No, the project does not require clearance under Wildlife Protection Act, 1972. Self-declaration in this regard is submitted.</td></tr>
<tr><td>3.4</td><td>Whether the project falls within the influence of Eco-Sensitive Zone or not.</td><td>Yes. The City Bird Sanctuary is located at 8.8 km from the project site. The project falls outside eco-sensitive zone of the sanctuary.</td></tr>
<tr><td>3.6</td><td>Green area requirement and proposed No. of trees:</td><td>Total proposed green area = 12,653.91 sq.m.
<table>
<tr><th>Details</th><th>Plot area (in sq.m.)</th><th>Required green area (in sq.m.)</th><th>Proposed Green area (in sq.m.)</th><th>Required trees (Nos) {1 tree @ 80 sq.m. of plot area OR 1 tree @ 225 sq.m. of covered area}</th><th>Proposed trees (Nos.)</th></tr>
<tr><td>Phase 01</td><td>23,046.40</td><td>5,761.60 (@ 25%)</td><td>9,318.00 (@ 40.43%)</td><td>23,046.40/80 = 288 OR 94,557.64/225 = 420</td><td>423</td></tr>
<tr><td>Phase 03</td><td>10,960.49</td><td>2,740.12 (@ 25%)</td><td>3,335.91 (@ 30.44%)</td><td>10,960.49/80 = 137 OR 48,450.43 /225 = 215</td><td>220</td></tr>
<tr><td>Total</td><td></td><td>8,501.72</td><td>12,653.91</td><td>636</td><td>643</td></tr>
</table></td></tr>
<tr><td>4.</td><td colspan="2">Configuration & Population</td></tr>
<tr><td>4.1</td><td colspan="2">Configuration
The Project has been segregated in 3 phases. Components are described below:
• Phase 01: 5 Residential Towers with 235 dwelling units & Club.
• Phase 02: Reserved for future Expansion
• Phase 03: 2 Residential Towers with 162 dwelling units, Club and Commercial block.</td></tr>
</table>

Table: Area Statement

Description	Area (in sq.m.)	Area (in acres)
Total Plot area	57,469.408	14.201
• Area under Phase 01	23,046.40	5.69
• Area under Phase 02 (Future Expansion)	23,462.518	5.803
• Area under Phase 03	10,960.49	2.708

Table: Area Statement (Phase 01)

Description	Area (in sq.m.)
Site area	23,046.40
Permissible Ground Coverage (@ 30%)	6,913.92
Proposed Ground Coverage (@ 13.89%)	3,201.29
Permissible F.A.R (@ 3)	69,139.21
Proposed F.A.R (@ 2.58)	59,429.02
Proposed Non-F.A. R	35,128.62
Built-up area	**94,557.64**
Total Green required (@ 25%)	5,761.60
Proposed Green area (@ 40.43%)	9,318.00

Table: Component wise area details (Phase 01)

Description	No. of Floors	No. of Dwelling Units	FAR (Sq.m)	Non-FAR (Sq.m)	Built-up Area (Sq.m)
Residential					
• Tower 1	S+24	47	7,679.05	3,560.54	11,239.59
• Tower 2	S+24	47	10,817.31	3,008.58	13,825.90
• Tower 3	S+24	47	11,357.86	3,441.44	14,799.30
• Tower 4	S+24	47	13,553.27	4,247.17	17,800.44
• Tower 5	S+24	47	13,497.45	3,948.94	17,446.38
Recreational/club	G+2	--	2,524.08	203.72	2,727.80
Basement	1 (Upper)	--	--	16,718.22	16,718.22
Total		**235**	**59,429.02**	**35,128.62**	**94,557.64**

Table: Area Statement (Phase 03)

Description	Area (in sq.m.)
Site area	10,960.49
Permissible Ground Coverage (@ 30%)	3,288.15
Proposed Ground Coverage (@ 23.17%)	2,540.02
Permissible F.A.R (@ 3)	32,881.47
Proposed F.A.R (@ 2.47)	27,050.57
Proposed Non-F.A.R	21,399.86
Built-up area	**48,450.43**
Total green required (@ 25%)	2,740.12
Proposed Green area (@ 30.44%)	3,335.91

Table: Component wise area details (Phase 03)

Description	No. of Floors	No. of Dwelling Units	FAR (Sq.m)	Non FAR (Sq.m)	Built-up Area (Sq.m)
Residential & Club					
• **Ground Floor**	-	-	1,663.29	209.23	1872.52
• **First Floor**	-	-	1,663.29	209.23	1872.52
• **Tower 1 (2nd to 20th Floors)**	S+20	81	10,978.21	3,975.32	14,953.53
• **Tower 2 (2nd to 20th Floors)**	S+20	81	10,978.21	3,975.32	14,953.53
Commercial	G+1	--	1,767.55	1,019.41	2,786.96
Basement	2 (Upper & Lower)	--	--	12,011.36	12,011.36
Total		**162**	**27,050.57**	**21,399.86**	**48,450.43**

Details are as per the conceptual plan.

4.2 Population details

- Total Population = 4117 persons
- Phase 01- 2,333 persons
- Phase 03- 1,784 persons

Table: Population Details

Description	Population

• **Phase 01**	2,333
• **Phase 03**	1,784
Total Estimated Population	**4,117 persons**

Table: Populations details (Phase 01)

Description		**Factors as per NBC (Number of people)**	**Dwelling units**	**Population**
Residents	• 3 BHK • 4 BHK • 5 BHK	6 7 7	45 180 10	270 1260 70
Visitors	@ 10%	-	-	160
Staff	lumpsum	-	-	10
Sub Total				**1,770**
Club (G+2)				
Population for Club		**Factors as per NBC (Area per person)**	**FAR (m^2)**	**Population**
Street floor		3 m^2/person	849.60	283
First floor		6 m^2/person	837.24	140
Second floor		6 m^2/person	837.24	140
Sub Total				**563**
Staff (@ 10%)				**56**
Visitors (@ 90%)				**507**
TOTAL POPULATION	**2,333 persons**			

Table: Populations details (Phase 03)

Description		**Factors as per NBC (Number of people)**	**Dwelling units**	**Population**
Residents	3 BHK	6	162	972
Visitors	@ 10%	-	-	97
Staff	lumpsum	-	-	10
Sub Total				**1079**
COMMERCIAL (G+1)				
Population for commercial area		**Factors as per NBC (Area per person)**	**FAR (m^2)**	**Population**
1. Street floor		3 m^2/person	816.89	272
2. First Floor		6 m^2/person	950.67	159
Sub Total				**431**

	Staff (@ 10%)			**43**
	Visitors (@ 90%)			**388**
	CLUB (G+1)			
	Population for club	**Factors as per NBC (Area per person)**	**FAR (m^2)**	**Population**
	Street floor	3 m^2/person	590.97	197
	First floor	6m^2/person	464.43	77
	Sub Total			**274**
	STAFF (@ 10%)			**27**
	VISITORS (@ 90%)			**247**
	TOTAL POPULATION	**1,784**		
5	**Water**			
5.1	Source:	Borewells		
5.2	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) *Details thereof*	Application for extracting ground water from borewell has been filed to Punjab Water Regulation and Development Authority (PWRDA); copy of acknowledgement regarding the same is submitted.		
5.3	Total fresh water requirement: 267 KLD (Phase 01- 149 KLD & Phase 03- 118 KLD)			

Table: Water demand & wastewater generation details

Description	Total Water Demand (KLD)	Wastewater Generation (KLD)	STP Capacity
• **Phase 01**	229	183	230 KLD
• **Phase 03**	171	117	150 KLD
Total	**400 KLD**	**300 KLD**	**2 STPs of 230 & 150 KLD capacity**

Table: Water demand & wastewater generation calculations (Phase 01)

Sl. No.	Details	Population	Criteria	Water Demand (KLD)
1	Residential population	1600	@ 135 lpcd	216
2	Floating population	66	@ 45 lpcd	3
3	Visitors	667	@ 15 lpcd	10

4	**Water Requirement**	**229**
5	Wastewater Generation (@ 80% of water requirement)	183
6	Treated Sewage (@ 98%)	179
7	Flushing Water Requirement (@ 45 lpcd for residential population, @ 20 lpcd for floating population & @ 10 lpcd for visitors)	80
8	**Total Fresh Water Demand**	**149**
9	**Green area water req. for 9318 sq.m.**	
	Summer (@ 5.5 lt./m^2/day)	51
	Winter (@ 1.8 lt./m^2/day)	17
	Monsoon (@ 0.5 lt./m^2/day)	5

Table 7(c): Water demand & wastewater generation calculations (Phase 03)

Sl. No.	Details	Population	Criteria	Water Demand (KLD)
1	Residential population	972	@ 135 lpcd	131
2	Floating population	80	@ 45 lpcd	4
3	Visitors	732	@ 15 lpcd	11
4	**Water Requirement**			**146**
5	Make up water demand for Swimming pool			25
6	**Total water requirement (4+5)**			**171**
7	Wastewater Generation (@ 80% of water requirement)			117
8	Treated Sewage (@ 98%)			115
9	Flushing Water Requirement (@ 45 lpcd for residential population, @ 20 lpcd for floating population & @ 10 lpcd for visitors)			53
10	**Total Fresh Water Demand including swimming pool demand**			**118**
11	**Green area water req. for 3335.91 sq.m.**			
	Summer (@ 5.5 lt./m^2/day)			18
	Winter (@ 1.8 lt./m^2/day)			6
	Monsoon (@ 0.5 lt./m^2/day)			2

5.4	Utilization/Disposal of excess treated wastewater.	Excess treated wastewater will be disposed of to GMADA sewer.

<table>
<tr><td>5.5</td><td colspan="2">Cumulative Details:

<table>
<tr><th>Phases</th><th>Total water Requirement KLD</th><th>Total wastewater generated KLD</th><th>Treated wastewater KLD</th><th>Flushing water requirement KLD</th><th>Green area requirement KLD</th><th>Into sewer KLD</th></tr>
<tr><td>Phase 01</td><td>229</td><td>183</td><td>179</td><td>80</td><td>Summer-51 KLD
Winter-17 KLD
Monsoon-5 KLD</td><td>Summer-48 KLD
Winter-82 KLD
Monsoon -94 KLD</td></tr>
<tr><td>Phase 03</td><td>171</td><td>117</td><td>115</td><td>53</td><td>Summer- 18 KLD
Winter-6 KLD
Monsoon-2 KLD</td><td>Summer-44 KLD
Winter-56 KLD
Monsoon -60 KLD</td></tr>
</table></td></tr>
<tr><td>5.6</td><td>Rain water harvesting proposal:</td><td>10 Rain water recharging pits (6 pits in Phase 01 & 4 pits in Phase 03) have been proposed for artificial rain water recharging within the project premises.</td></tr>
<tr><td>6</td><td colspan="2">Air</td></tr>
<tr><td>6.1</td><td>Details of Air Polluting machinery:</td><td>Total 7 DG sets as given below:
Phase 01
• 2 No. 750 kVA, 415-volt DG sets
• 2 No. 500 kVA, 415-volt DG sets

Phase 03
• 1 No. 750 kVA, 415-volt DG set
• 1 No. 500 kVA, 415-volt DG set
• 1 No. 320 kVA, 415-volt DG set</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.</td></tr>
<tr><td>7</td><td>Waste Management</td><td></td></tr>
<tr><td>7.1</td><td>Total quantity of solid waste generation</td><td>Total solid waste generation = 1,338 kg/day
• Phase 01- 787 kg/day
• Phase 03 - 551 kg/day</td></tr>
</table>

<table>
<tr><td>7.2</td><td>Whether Solid Waste Management layout plan by earmarking the location as well as area designated for installation of Mechanical Composter and Material Recovery Facility submitted or not</td><td>Yes. Biodegradable waste will be converted into manure using 3 Composters. Non-biodegradable waste (recyclable waste) will be disposed off through authorized recycler vendors. Inert waste will be dumped at authorized dumping site.</td></tr>
<tr><td>7.3</td><td>Details of management of Hazardous Waste.</td><td>Hazardous Waste in the form of used oil from DG sets will be generated which will be managed & disposed of to authorized vendors as per the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and its amendments.</td></tr>
<tr><td>8</td><td>Energy Saving & EMP</td><td></td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>Total Power load = 3,171 KW / 4,509 KVA
• Phase 01 – 1,957 KW / 2,718 kVA
• Phase 03 – 1,214 KW / 1,791 kVA</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>Solar panels have been proposed on the roof top of the towers. The total area covered by solar panels will be 1,329 sq.m. which is @ 30% of roof top area which will generate 131 KW of power generation. 71.46 KW of energy will be saved by using LEDs instead of CFLs within the project.</td></tr>
<tr><td>8.3</td><td colspan="2">Details of activities under Environment Management Plan.
<table>
<tr><th rowspan="2">S.No</th><th rowspan="2">Title</th><th rowspan="2">Capital Cost (In Lakhs)</th><th colspan="2">Recurrring cost (In Lakhs/Annum)</th></tr>
<tr><th>Construction phase</th><th>Operation Phase</th></tr>
<tr><td>1</td><td>Air & Noise Pollution Management (Acoustic enclosure for DG sets, tarpaulin sheets/ barricading, water sprinklers, Maintenance of machinery & PPE’s etc)</td><td>10</td><td>1</td><td>3</td></tr>
</table></td></tr>
</table>

2	Water Pollution Control (STP of Capacity 230 KLD & 150 KLD capacity based on MBBR technology followed by UF)	70	2	10
3	Landscaping (643 nos. of trees and green area development)	10	2	6
4	Solid Waste Management (3 Composters of 250, 200 & 150 kg each)	35	2	4
5	Rain water Harvesting (10 pits)	25	1	5
6	Energy Conservation (LED lights in common areas, 131 KW solar panels, etc.)	60	1	5
7	Miscellaneous (Environment monitoring cost, Management of Environment Cell, etc.)	5	1	5
	Total	**215**	**10**	**38**

Further, Rs. 2.65 Crores (i.e. 1% of total project cost) has been reserved for undertaking additional environment activities as given below:

Sr. No.	**Additional Environment Activities**	**Cost (in Crores)**
1.	Adoption of 2 Ponds (1 acre each) in Village Hasanpur	Rs. 1 Cr.
2.	Adoption of Nanak Bagichi (1 acre land) in Village Hasanpur	Rs. 0.35 Cr.
3.	Provision of smog tower within the project premises	Rs. 1.3 Cr
	Total Additional Environment Activities	**Rs. 2.65 Crores**

After detailed deliberations, SEAC decided to defer the case till the receipt of reply of the below mentioned observations:

1. The Project Proponent shall submit permission from GMADA for discharge of excess treated waste water into public sewer or submit the alternate scheme for utilization/disposal of excess treated wastewater.

2. The Project Proponent shall submit the permission for access/approach road to the project under the provisions of Forest Conservation Act, 1980. The Project Proponent shall also provide the details of Khasra No. as mentioned in the DFO letter No. 5375 dated 03.12.2021.
3. The Project Proponent shall submit the proposal for the management & disposal of storm water to be generated from the project.
4. The Project Proponent shall submit the proposal for the management of the non-recyclable component of solid waste.
5. The Project Proponent shall submit the detailed proposal for planting 643 No. of trees by indicating the running length of the road, distance between the plants, type of plants, height of plant etc.

Deliberations during 251st meeting of SEAC held on 10.07.2023.

The meeting was attended by the following:

(i) Mr. Harjinder Singh, Manager M/s Aerofront Developers
(ii) Mrs. Jyoti Rani, EC Coordinator, M/s Eco laboratories Pvt Ltd.

SEAC allowed the Environmental Consultant of the Promoter Company to present the reply of the aforementioned observations. Thereafter, the Environmental Consultant presented as under:

S. No.	Queries	Reply
1.	The Project Proponent shall submit permission from GMADA for discharge of excess treated waste water into public sewer or submit the alternate scheme for utilization/ disposal of excess treated wastewater.	Application has been filed to GMADA for sewerage connection vide dated 10.03.2023. But, till date no reply has been received. Thus, as an alternate arrangement, excess treated water will be disposed of for utilization in nearby construction activities or onto 2.2 acres of land to be developed under Karnal Technology within the project till GMADA sewer is connected. Layout plan showing the land to be developed under Karnal Technology within the project premises is submitted. Water balance diagram for three seasons mentioning alternate disposal scheme is submitted.
2.	The Project Proponent shall submit the permission for access/approach road to the project under the	It is to highlight that earlier letter from DFO vide no. 5375 dated 03.12.2021 was approved for 19.686 acres of land which includes additional

	provisions of Forest Conservation Act, 1980. The Project Proponent shall also provide the details of Khasra No. as mentioned in the DFO letter No. 5375 dated 03.12.2021.	land also. Further, there is no approach for NH-205 to our project. Thus, there is no requirement of permission for access/approach road to the project. As desired, list of khasra nos. for 19.686 acres of land is submitted. Recently, letter has been obtained from DFO for our project land of 14.201 acres stating that no PLPA/forest land is involved in the project. Copy of NOC from DFO is submitted.
3.	The Project Proponent shall submit the proposal for the management & disposal of storm water to be generated from the project.	Storm water Management Plan is submitted. Services layout plan showing outfall of excess storm water is submitted.
4.	The Project Proponent shall submit the proposal for the management of the non-recyclable component of solid waste.	Solid waste management proposal is submitted. Layout plan showing location of solid waste management area is depicted in drawing submitted. Further, solid waste management layout plan along with layout & section foundation for composter drawing are submitted.
5.	The Project Proponent shall submit the detailed proposal for planting 643 No. of trees by indicating the running length of the road, distance between the plants, type of plants, height of plant etc.	Revised Landscape Plan stating the same submitted.

During meeting, the Committee perused the reply presented by the Environmental Consultant of the Project Proponent and observed that the reply of the observations raised at point no. 1,2 and 3 were not satisfactory. The Committee observed as under:

1. The High Transmission lines of 220 KV are passing across the green area of 2.2 acres proposed to be developed into Karnal Technology to utilize the excess treated wastewater generated from the project. The Committee asked the Project Proponent to check the feasibility of the proposal to develop the green area in form of Karnal

Technology, as per the statutory norms/guidelines, in view of the provisions of leaving ROW due to high transmission lines passing over that area. The Project Proponent agreed to the same.

2. Permission for access/approach road to the project under the provisions of the Forest Conservation Act 1980 not submitted. In this regard, the Committee asked the Project Proponent to submit an affidavit to the effect that the access to the project is not from the forest area and is proposed from Master Plan Road which is still in planning stage. If, in case, the access road of the project falls in the Forest area, the requisite permission from the Department of Forest & Wildlife shall be taken. The Project Proponent agreed to submit the same.

3. The proposal submitted for storm water management was not found satisfactory and asked the Project Proponent to revise the same by clearly mentioning its disposal arrangements by obtaining permission from GMADA.

After detailed deliberations, the Committee decided to defer the case till the Project Proponent submit the receipt of the reply of below mentioned observations:

1. The Project Proponent shall check the feasibility of the proposal to develop the green area in form of Karnal Technology above, in view of the provisions of leaving ROW due to high transmission lines passing over that area.
2. The Project Proponent shall submit an affidavit to the effect that the access to the project is not from the forest area and is proposed from Master Plan Road which is still in planning stage. If, in case, the access road of the project falls in the Forest area, the requisite permission from the Department of Forest & Wildlife shall be taken.
3. The Project Proponent shall submit the revised proposal for the storm water management by clearly mentioning its disposal arrangements by obtaining permission from GMADA.

Item No. 251.07: Application for Environmental Clearance for establishment of residential plotted Project namely "Amulyam" (10.836 acres) at Ward No. 9, Kurali bypass road, Padiala, Tehsil Kharar, Distt. SAS Nagar (Mohali), Punjab by M/s SRV Infrastructure (Proposal no. SIA/PB/INFRA2/426534/2023).

The project proponent has submitted application for development of Residential Plotted Project namely "Amulyam" (10.836 acres) at Ward No. 9 Kurali bypass, Padiala, Tehsil Kharar, Distt. SAS Nagar (Mohali), Punjab. The total land area of the project is 10.836 acres having built-up area of 43,528.07 sq.m. The project is covered under Schedule 8(a) - 'Building & Construction Project'; Category 'B2' as per EIA Notification, 2006 & its amendments.

The project proponent has submitted the Checklist, Conceptual Plan, EMP, application form and other additional documents through Parivesh Portal. He has also deposited fee of Rs. 87,060/- vide UTR No./ Reference ID 719923035 dated 13.04.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

Punjab Pollution Control Board vide letter no. 4114 dated 09.06.2023 furnished construction status report as under:

"The proposed site of the project was visited by officer of the Board on 30.05.2023 along with Sh. Anoop Kumar, General Manager. As per site shown by the representative, the point-wise status report is as under:

1. *The proposed site of the project is located at Ward no.9., Kurali Bypass, Padiala, Tehsil Kharar, Dist. SAS Nagar. The project proponent has earmarked its site with flag poles and no boundary wall / fencing is provided.*
2. *The project proponent has not started development works at site however, has constructed (temporary structure) for office/ sale office building only.*
3. *The nearest petrol pump is about 130 m away from the proposed site.*
4. *As per the boundary limits shown by the representative, it was observed that there is no operational approved/consented Industry such as rice Sheller/saila plant/brick kiln/ stone crushing/ screening cum washing unit/ hot mix plant/ cement grinding unit within a radius of 500 m. There is no operational approved/consented air polluting industry within a radius of 100 m from the boundary of the project site and there is no operational approved/consented MAH Industry within a radius of 250 m radius from the boundary of the proposed site. There is no operational approved/consented Jaggery Unit within 200 m.*
5. *The site of the project was found conforming to the sitting guidelines laid down by the Govt. of Punjab, Department of Science Technology and Environment vide order dated 25/07/2008 as amended on 30/10/2009."*

Deliberations during 250th meeting of SEAC held on 20.06.2023.
The meeting was attended by the following:

(i) Mrs. Mona Sharma, Authorized Signatory M/s SRV Infrastructure.
(ii) Mrs. Jyoti Rani, EC Coordinator, M/s Eco laboratories Pvt Ltd.

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

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	Residential Plotted Project namely "Amulyam" by M/s SRV Infrastructure
1.2	Proposal:	SIA/PB/INFRA2/426534/2023
1.3	Location of Project:	Ward No. 9 Kurali bypass, Padiala, Tehsil Kharar, Distt. SAS Nagar (Mohali), Punjab
1.4	Details of Land area & Built up area:	Plot area: 10.836 acres (43,852.37 sq.m.) Built up area: 43,528.07 sq.m.
1.5	Category under EIA notification dated 14.09.2006	8(a)
1.6	Cost of the project	Rs. 22.10 Crores
2.	**Site Suitability Characteristics**	
2.1	Whether project is suitable as per the provisions of Master Plan:	Permission for change of land use has been obtained for 10.836 acres of land vide Memo No. PB/CLU/SAS/KURAL/2263 dated 22.08.2022 in the name of copy of same is submitted.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	Permission for change of land use has been obtained for 43852.37 sq.m of land area at Kurali Byepass road, Village Padiala vide Memo No. PB/CLU/SAS/KURAL/2263 dated 22.08.2022. A copy of same is submitted with the application.
3	**Forest, Wildlife and Green Area**	

3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	No. The project does not involve any forest land. Forest NOC is attached along with application.
3.2	Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA), 1900.	Project is not covered under PLPA, 1900. Letter in this regard has been obtained from District Forest Officer and is attached along with application.
3.3	Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not?	No. The project does not require clearance under Wildlife Protection Act 1972.
3.4	Distance of the project from the Critically Polluted Area.	The nearest critically polluted area is Ludhiana which is approx. 62 km from project location.
3.5	Whether the project falls within the influence of Eco-Sensitive Zone or not.	No. The project does not fall within any eco-sensitive zone.
3.6	Green area requirement and proposed No. of trees:	Total green area: 2,499 sq.m. (@ 6.16% of balance plot area) Proposed trees to be planted: 550 nos.
4.	**Configuration & Population**	
4.1	Proposal & Configuration The project will comprise of 171 residential plots, EWS plots, 23 Commercial plots along with associated facilities.	

Table 3: Area Statement

Sl. No.	Description	Area (in sq.yd.)	Area (in sq.m.)
1.	**Total Plot Area**	52,447	**43,852.37 sq.m.** (10.836 acres)
2.	Area Under Road Widening	1,361.36	1,138.81
3.	Area under Scheme (1-2)	51,085.64	42,713.56 (10.555 acres)
4.	Area under EWS (@ 5%)	2,554.76	2,135.56
5.	Balance Area (3-4)	48,530.88	40,578 sq.m.

6.	Area under residential plots (@ 52.05%)	25,261.16	21,121.55
7.	Area under Commercial (@ 2.95%)	1,431.11	1,196.59
8.	Area Under Parks & Green (@ 6.16%)	2,988.2	2,499
9.	Area Under Surface Parking (@ 2.66%)	1,291.98	1,080.26
10.	Area Under Services (@ 1.55%) • STP (@ 0.62%) • Area Under EGS (@ 0.31%) • Area Under Water Works (@ 0.21%) • Garbage Collection (@ 0.41%)	750.66 • 300.09 • 150.50 • 100.01 • 200.06	627.65 250.91 125.84 83.62 167.28
11.	Area Under Roads (@ 34.63%)	16,807.77	14,053

Table 3: Permissible Built-up Area

SI. No.	Components	Built-up Area (in sq.m.)
1.	Residential Plots (FAR @ 1.9)	40,131
2.	EWS	1,602.065
3.	Commercial Plots (FAR @ 1.5)	1,795
	Total Permissible Built-up Area	**43,528.07 sq.m.**

4.2 Population details — 3,026 persons

SI. No.	Area Type	No. of Plots/ Booth/ Area	Criteria	Population
1.	Residential Plots	171 Plots	15 persons/ plot	2565
2.	Commercial (Booths)	23 Nos.	2 persons/ booth	46
3.	EWS	0.528 acre	300 persons /Acre	158

		4.	Visitors	-	10% of residential population	257
			Total Estimated Population = 3,026 Persons			
5	**Water**					
5.1	Total fresh water requirement:	247 KLD **Table 5: Water demand & wastewater generation calculations**				
		Sl. No.	**Details**	**Population**	**Criteria**	**Water Demand (KLD)**
		1.	Residential population	2,565	@ 135 lpcd	346
		2.	Commercial population	46	@ 45 lpcd	2
		3.	EWS	158	@ 135 lpcd	21
		4.	Visitors	257	@ 15 lpcd	4
		5.	**Water Requirement**			**373 KLD**
		6.	Wastewater Generation (@ 80% of water requirement)			298 KLD
		7.	Treated Sewage (@ 98%)			292 KLD
		8.	Flushing Water Requirement (@ 45 lpcd for residential population, @ 20 lpcd for floating population & @ 10 lpcd for visitors)			115+1+7+3= 126 KLD
		9.	**Total Fresh Water Demand**			**373 -126= 247 KLD**
		10.	**Green area water req. for 2,499 sq.m.**			
		•	Summer (@ 5.5 lt./m^2/day)			14 KLD
		•	Winter (@ 1.8 lt./m^2/day)			4 KLD
		•	Monsoon (@ 0.5 lt./m^2/day)			1 KLD
5.2	Source:	Bore wells				

<table>
<tr><td>5.3</td><td>Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N)
Details thereof</td><td>No. Permission from PWRDA is not required as water demand will be utilized exclusively for Drinking and Domestic use.</td></tr>
<tr><td>5.4</td><td>Total wastewater generation:</td><td>298 KLD</td></tr>
<tr><td>5.5</td><td>Treatment methodology: (STP capacity, technology & components)</td><td>298 KLD of wastewater will be generated from the project which will be treated in proposed STP of 350 KLD capacity based on MBBR Technology followed by UF.</td></tr>
<tr><td>5.6</td><td>Treated wastewater for flushing purpose:</td><td>126 KLD</td></tr>
<tr><td>5.7</td><td>Treated wastewater for green area in summer, winter and rainy season:</td><td>Summer: 14 KLD
Winter: 4 KLD
Monsoon: 1 KLD</td></tr>
<tr><td>5.8</td><td>Utilization/Disposal of excess treated wastewater.</td><td>Excess treated water will be disposed of to MC sewer.</td></tr>
<tr><td>5.9</td><td colspan="2">Cumulative Details:
<table>
<tr><th>S. No.</th><th>Total water Requirement</th><th>Total wastewater generated</th><th>Treated wastewater</th><th>Flushing water requirement</th><th>Green area requirement</th><th>Into sewer</th></tr>
<tr><td>1.</td><td>373 KLD</td><td>298 KLD</td><td>292 KLD</td><td>126 KLD</td><td>Summer: 14 KLD
Winter: 4 KLD
Monsoon: 1 KLD</td><td>Excess will be disposed to MC sewer.

Summer: 152 KLD
Winter: 162 KLD
Monsoon: 165 KLD</td></tr>
</table></td></tr>
</table>

<table>
<tr><td>5.10</td><td>Rain water harvesting proposal:</td><td>5 Rain Water Recharging pits with dual bore have been proposed for artificial rain water recharging within the project premises.</td></tr>
<tr><td>6</td><td colspan="2">Air</td></tr>
<tr><td>6.1</td><td>Details of Air Polluting machinery:</td><td>1 DG set of 200 KVA capacity will be installed for essential services such as STP, borewell, etc.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>DG set will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.</td></tr>
<tr><td>7</td><td>Waste Management</td><td></td></tr>
<tr><td>7.1</td><td>Total quantity of solid waste generation</td><td>1,118 kg/day</td></tr>
<tr><td>7.2</td><td>Whether Solid Waste Management layout plan by earmarking the location as well as area designated for installation of Mechanical Composter and Material Recovery Facility submitted or not.</td><td>Solid waste management area has been provided and earmarked in conceptual layout plan attached along with application. Biodegradable waste will be composted by use of 1 Composter of 500 kg each. Recyclable component will be disposed of through authorized recycler vendors. Inert waste will be dumped to authorized dumping site.</td></tr>
<tr><td>7.3</td><td>Details of management of Hazardous Waste.</td><td>Hazardous Waste in the form of used oil from DG set will be generated which will be managed & disposed off to authorized vendors as per the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and its amendments.</td></tr>
<tr><td>8</td><td>Energy Saving & EMP</td><td></td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>Total power demand for the proposed project will be 831.81 KVA which will be provided by Punjab State Power Corporation Limited (PSPCL).</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>Use of LEDs is proposed in all common areas and the residents shall be educated about the huge savings in their electricity bills, if they use the LED.</td></tr>
<tr><td>8.3</td><td>Details of activities under Environment Management Plan.</td><td>Details of activities under Environment Management Plan is mentioned below:
<table>
<tr><th rowspan="2">S. No.</th><th rowspan="2">Title</th><th colspan="2">Construction Phase</th><th>Operation Phase</th></tr>
<tr><th>Capital Cost</th><th>Recurring Cost</th><th>Recurring Cost</th></tr>
</table></td></tr>
</table>

			(in Lakhs)	**(in Lakhs per Annum)**	**(in Lakhs per Annum)**
		1.	Air Pollution Control including anti-smog guns (tarpaulin sheets/ barricading, water sprinklers, etc.)	12	1	0.5
		2.	Water Pollution Control (STP of 350 KLD based on MBBR technology followed by UF)	40	2	5
		3.	Noise Pollution Control (Maintenance of machinery & PPE's)	2	0.5	0.5
		4.	Landscaping (550 nos. of trees and green area development)	8	2	5*
		5.	Solid Waste Management (Composter of 500 kg)	15	3	5
		6.	Rain water Harvesting (5 pits with double bore)	15	2	2
		7.	Energy Conservation (LED & solar lights in common areas)	5	0.5	1
		8.	Miscellaneous (Environment monitoring cost, Management of Environment Cell, etc.)	5	2	2
		Total		**Rs. 102 Lakhs**	**Rs. 13 Lakhs**	**Rs. 21 Lakhs**
		Further, Rs. 22 Lakhs i.e. 1% of total project cost has been reserved for undertaking additional Environment activities.				

After detailed deliberations, SEAC decided to defer the case till the receipt of reply of the below mentioned observations:

1. The Project Proponent has submitted documents pertaining to the application proposal on the letter head of VRS Building Community, however, partnership deed submitted under the name of M/s SRV Infrastructure. The Project Proponent is required to clarify the same.

2. The Project Proponent shall submit permission from MC, Kurali for discharge of excess treated waste water into public sewer or submit any alternate scheme for utilization/disposal of excess treated wastewater.
3. The Project Proponent shall submit the revised estimation of EWS population by considering 450 persons/acre and accordingly revise the water demand, waste water generation, water balance etc.
4. The Project Proponent shall provide the details of activities being undertaken under Additional Environmental Activities along with the NOCs from various stakeholders.
5. The Project Proponent shall submit the proposal for the management & disposal of storm water to be generated from the project.
6. The Project Proponent shall submit the proposal for the management of the non-recyclable component of solid waste.
7. The Project Proponent shall submit the detailed proposal for planting 550 No. of trees by indicating the running length of the road, distance between the plants, type of plants, height of plant etc.

Deliberations during 251st meeting of SEAC held on 10.07.2023.
The meeting was attended by the following:

(i) Mrs. Mona Sharma, Authorized Signatory M/s SRV Infrastructure.
(ii) Mrs. Jyoti Rani, EC Coordinator, M/s Eco laboratories Pvt Ltd.

SEAC allowed the Environmental Consultant of the Promoter Company to present the reply of the aforementioned observations. Thereafter, the Environmental Consultant presented as under:

S. No.	Queries	Reply
1.	The Project Proponent has submitted documents pertaining to the application proposal on the letter head of VRS Building Community, however, partnership deed submitted under the name of M/s SRV Infrastructure. The Project Proponent is required to clarify the same.	We want to highlight that earlier we were running all the firms under one brand name i.e. "VRS – Building Community". Therefore, logo of "VRS" was used on all the letter heads of different firms. Accordingly, letter head used for submission of EC application comprises of logo of "VRS" on the top and firm name "M/s SRV Infrastructure" in the bottom. Further, we would also like to inform you that, there were some rearrangements between the partners in their joint ventures. Accordingly, new retirement cum partnership deeds for respective

		firms have been formed. New partnership deed of M/s SRV Infrastructure is submitted**.** As per new partnership deed, M/s SRV Infrastructure is under complete ownership of Mr. Rajesh Arora & Mr. Sanchan Arora. (Mr. Rajesh Arora is still one of the partner in firms under VRS Group). In addition, as the partners of M/s SRV Infrastructure have decided to run their separate brand logo for all their completely owned firms, the said firm will be represented under the company logo of "ALC" (Arora Land Corp). Thus, present letter head depicts logo of "ALC" at the top instead of "VRS" and firm name "M/s SRV Infrastructure" also on the top.
2.	The Project Proponent shall submit permission from MC, Kurali for discharge of excess treated waste water into public sewer or submit any alternate scheme for utilization/ disposal of excess treated wastewater.	As per earlier proposal submitted to your esteemed office, excess treated water will be discharged into MC sewer. In this regard, letter has been submitted to MC for status of sewer connection. But, till date no reply has been received. Thus, as an alternate disposal, excess treated water generated from the project (max. 170 KLD during monsoon season) will be discharged onto 2.4 acres of land to be developed under Karnal Technology. M/s SRV Infrastructure is a General Power of Attorney (GPA) holder of land measuring 3.074 acres; copy of the land documents are submitted**.** Thus, excess treated water will be disposed onto own land of 2.4 acres out of 3.074 acres till MC sewer will be connected. Affidavit regarding the same is submitted**.** Google Earth Image showing land reserved for Karnal Technology is submitted**.** Further, revised water balance with alternate disposal scheme is submitted**.**

3.	The Project Proponent shall submit the revised estimation of EWS population by considering 450 persons/acre and accordingly revise the water demand, waste water generation, water balance etc.	Population and Water calculations of the project has been revised by considering 450 persons/acre for EWS plot. Revised water calculation along with water balance is submitted**.**
4.	The Project Proponent shall provide the details of activities being undertaken under Additional Environmental Activities along with the NOCs from various stakeholders.	Total estimated cost of the project is Rs. 22.10 Crores. Thus, Rs. 22.10 lakhs (i.e. 1% of total project cost) has been reserved for undertaking additional environment activities i.e. maintenance & beautification of pond located in Village Padiala. In this regard, NOC has been obtained and copy of the same is submitted**.** Further, detailed proposal regarding maintenance & beautification of pond is submitted**.**
5.	The Project Proponent shall submit the proposal for the management & disposal of storm water to be generated from the project.	Storm water Management Plan is submitted**.** Storm water layout plan showing outfall of excess storm water is submitted**.**
6.	The Project Proponent shall submit the proposal for the management of the non-recyclable component of solid waste.	Solid waste management proposal is submitted**.** Layout plan showing location of solid waste management area/Garbage collection is depicted in drawing submitted**.** Further, solid waste management layout plan along with layout & section foundation for composter drawing are submitted**.** Permission from MC, Kurali for solid waste disposal is submitted.
7.	The Project Proponent shall submit the detailed proposal for planting 550 No. of trees by indicating the running length of the road, distance between the	Revised Landscape Plan stating the same is submitted**.**

	plants, type of plants, height of plant etc.	

During meeting, the Committee perused the reply presented by the Environmental Consultant of the Project Proponent and observed that the reply of the observations raised at point no. 2 & 5 were not satisfactory. The Committee observed as under:

1. The Project Proponent proposed to develop green area of 2.4 acres into Karnal Technology outside the project premises to utilize the excess treated wastewater generated from the project. In this regard, SEAC apprised the Project Proponent that the following decision was taken in the 13th joint meeting of SEIAA/SEAC held on 25.04.2022, as under:

   "In case of absence of MC sewer, no case shall be granted Environmental Clearance in which the project proponent proposes to develop plantation as Karnal Technology on land taken on lease by the project proponent which is outside the project site. In all cases where the adoption of Karnal Technology method is to be used for disposal of wastewater (either due to absence of MC sewer or due to its present inadequate capacity), the project proponent be asked to develop plantation within the project site as per the Karnal Technology."

   As per above, the Project Proponent is required to submit the alternative proposal for utilizing the treated waste water.

2. No adequate proposal for storm water disposal was submitted by the Project Proponent. The Committee asked the Project Proponent to submit the proposal for storm water management and its disposal after obtaining permission for discharging its excess storm water into MC storm sewer.

After detailed deliberations, SEAC decided to defer the case till the reply of the below mentioned observations:

1. The Project Proponent shall submit the alternative proposal for utilization of excess treated wastewater.
2. The Project Proponent shall submit the revised proposal for the disposal of storm water after obtaining permission from MC, Kurali.