Proceedings of 221st meeting of State Expert Appraisal Committee (SEAC) held on 27.05.2022 (Friday) at 11:30 AM in the Conference Hall no. 3 MGSIPA Complex, Sector-26, Chandigarh.

The following were present:

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

Item No. 01: **Confirmation of the proceedings of 220th meeting of State Level Expert Appraisal Committee held on 16.05.2022.**

The proceedings of 220th meeting of State Level Expert Appraisal Committee held on 16.05.2022 were prepared and circulated through email on 20.05.2022. No Comments has been received from any of the Members. Therefore, SEAC confirmed the same.

Item No. 02: **Action taken on the proceedings of the 220th meeting of State Level Expert Appraisal Committee held on 16.05.2022.**

The action taken on the decisions of 220th meeting of State Level Expert Appraisal Committee held on 16.05.2022 has been completed. SEAC noted the same.

Item No. 221.01: Application for amendment in Environmental Clearance under EIA Notification dated 14.09.2006 of "Industrial Park" at Village Wazirabad, Tehsil Sirhind, Distt- Fatehgarh Sahib, (Punjab) by Punjab Small Industries & Export Corporation Limited (PSIEC) (Proposal No. SIA/PB/NCP/272399/2022).

Punjab Small Industries & Export Corporation Limited was granted Environmental Clearance under EIA notification dated 14.09.2006 vide letter SEIAA/MS/2021/4041 dated 04.05.2021 for setting up new Pharmaceutical Park (Bulk drugs & APIs and Formulations) at Village Wazirabad, Distt- Fatehgarh Sahib, Punjab. The said Environment Clearance was granted for the setting up of new pharmaceutical park for the manufacturing of Bulk drug & APIs and formulation with capacity of 2000 TPD at Village Wazirabad, District Fatehgarh Sahib, Punjab. Out of total scheme area of 130.32 acres, industrial plots were to be developed in the total land area of 67.93 acres. The area and details of the industrial plots is as under:

Sr. No.	Category of Plot	Number of plots	Area in Acres
1	43.75 acres plot for Anchor unit	1	43.75
2	2.5 acres and above plots	1	2.50
3	1.0 acres and above plots	6	7.18
4	2500 Sq. yards and above plots	23	12.09
5	500 Sq. yards and above plots	21	2.41
	Total	**52**	**67.93**

PSIEC has submitted an application for obtaining amendment in the Environment Clearance. In the said application, PSIEC informed that at the time of conceptualization of the said Industrial Park, it was envisaged that apart from Anchor Unit most of the industries to be established in the Industrial Park shall be engaged in the manufacturing of API/Intermediates/formulations. However due to some unavoidable reasons, PSIEC could not find a suitable Anchor Unit in Pharma sector. Some National/Multinational Corporate houses were approaching the State Government for allotment of industrial land for manufacturing other sector products like man-made fiber, animal feed, etc.

Accordingly, PSIEC revised its layout plan. As per the said layout plan, out of total scheme area of 131.95 acres, industrial plots are to be developed in the total land area of 103.85 acres with details as under:

Sr. No.	Category of Plot	Number of plots	Area in Acres
1	80-acre Plot	1	80
2	15-acre Plot	1	14.85
3	6- acre Plot	1	06.00
4	3-acre Plot	1	03.00
5	**Total area under industrial Plots**	**04**	**103.85**

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

Deliberations during 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Sh. Rajeev Garg, Environmental Consultant of PSIEC.
(ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(iii) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of Project Proponent to present the salient features of the project. Thereafter, Environmental Consultant presented the case seeking amendment in Environmental Clearance as under: -

<table>
<tr><th>S. No.</th><th>Description</th><th>Earlier EC</th><th>After Amendment</th></tr>
<tr><td>1.</td><td>Total Project Cost (In Crores)</td><td>Total Project Cost: Rs. 153.7 Crores</td><td>Total Project Cost: Rs.141.40 Crores</td></tr>
<tr><td>2.</td><td>Plot Area Details</td><td>Total Plot Area: 130.32 acres
<table><tr><th>Sr. No.</th><th>Land use</th><th>Area (in Ac.)</th></tr></table></td><td>Total Plot Area: 131.95 acres
<table><tr><th>Sr. No.</th><th>Land use</th><th>Area (in Ac.)</th><th>Green area in Ac.</th><th>Green area in %</th></tr></table></td></tr>
</table>

<table>
<tr>
<td></td>
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<table>
<tr><td>1</td><td>Industrial plots</td><td>67.93</td></tr>
<tr><td>2</td><td>Commercial use</td><td>6.00</td></tr>
<tr><td>3</td><td>Public building</td><td>4.00</td></tr>
<tr><td>4</td><td>Elec. Substation</td><td>8.00</td></tr>
<tr><td>5</td><td>Water works/WTP</td><td>2.63</td></tr>
<tr><td>6</td><td>CETP/STP</td><td>3.65</td></tr>
<tr><td>7</td><td>Green/Open space</td><td>20.06</td></tr>
<tr><td>8</td><td>Common Waste Material</td><td>1.00</td></tr>
<tr><td>9</td><td>Road/Rasta</td><td>17.05</td></tr>
<tr><td></td><td>Total</td><td>130.32</td></tr>
</table>
</td>
<td>
<table>
<tr><td>1</td><td>Industrial Plots</td><td>103.85</td><td>34.27</td><td>33%</td></tr>
<tr><td>2</td><td>Commercial Use</td><td>02.35</td><td>0.705</td><td>30%</td></tr>
<tr><td>3</td><td>Public building</td><td>3.75</td><td>1.875</td><td>50%</td></tr>
<tr><td>4</td><td>Elec. Substation</td><td>8.10</td><td>2.67</td><td>33%</td></tr>
<tr><td>5</td><td>Water works/Site Office</td><td>01.30</td><td>0.65</td><td>50%</td></tr>
<tr><td>6</td><td>Disposal Works</td><td>01.25</td><td>0.625</td><td>50%</td></tr>
<tr><td>7</td><td>Common Waste Material/ Hazardous Waste</td><td>01.50</td><td>0.75</td><td>50%</td></tr>
<tr><td>8</td><td>Road/Rasta</td><td>09.85</td><td>2.70</td><td>27.5%</td></tr>
<tr><td></td><td>Total</td><td>131.95</td><td>44.245 ~34%</td><td></td></tr>
</table>
</td>
</tr>
<tr>
<td>3.</td>
<td>Details of technology proposed for control of emissions & effluents generated from project</td>
<td>
<table>
<tr><th>Sr. No</th><th>Details</th><th>Technology to be adopted</th><th>Capacity of proposed technology</th></tr>
<tr><td>1</td><td>CETP</td><td>ZLD</td><td>1.5 MLD</td></tr>
<tr><td>2</td><td>STP</td><td>SBR/MBBR</td><td>0.5 MLD</td></tr>
<tr><td>3</td><td>APCD</td><td colspan="2">To be provided by the individual industries</td></tr>
</table>
</td>
<td>
<table>
<tr><th>Sr. No</th><th>Details</th><th>Tech. to be adopted</th><th>Capacity</th></tr>
<tr><td>1</td><td>CETP</td><td>Not Required</td><td>NA</td></tr>
<tr><td>2</td><td>STP</td><td>SBR/ MBBR</td><td>0.05 MLD</td></tr>
<tr><td>3</td><td>APCD</td><td colspan="2">To be provided by the individual industries</td></tr>
</table>
Note: Individual industries will install their own ETPs with ZLD system.
</td>
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<tr>
<td>4.</td>
<td>Manpower requirement</td>
<td>3000</td>
<td>4000</td>
</tr>
<tr>
<td>5.</td>
<td>Details of Emissions</td>
<td>
The individual industries shall provide adequate & appropriate pollution control systems as per proposed processes as per the CPCB/PPCB norms.
<table>
<tr><th>Sr. No.</th><th>Source of Emission</th><th>Nos. proposed in EC</th><th>Cumulative Capacity</th></tr>
<tr><td>1.</td><td>Boilers</td><td>52</td><td>135 TPH</td></tr>
<tr><td>2.</td><td>DG Sets</td><td>59</td><td>22700 KVA</td></tr>
</table>
</td>
<td>
The individual industries shall provide adequate & appropriate pollution control systems according to their processes as per the CPCB/PPCB norms. However, the overall pollution load w.r.t. air emissions will be significantly less than the previous proposal at the time of EC.
<table>
<tr><th>Sr. No.</th><th>Source of Emission</th><th>*Max. Nos. after Amendment</th><th>Cumulative Capacity</th></tr>
<tr><td>1.</td><td>Boilers</td><td>10</td><td>50TPH</td></tr>
<tr><td>2.</td><td>DG Sets</td><td>15</td><td>15000KVA</td></tr>
</table>
*Assumed as per revised layout & prospective investors.
</td>
</tr>
<tr>
<td>6.</td>
<td>Breakup of Water Requirements& its source in Operation Phase:</td>
<td>
<table>
<tr><th>Sr. No</th><th>Water Requirement</th><th>Quantity</th><th>Source of Water</th></tr>
<tr><td>1</td><td>Fresh Water Demand</td><td>2.00 MLD</td><td>Rajbaha Canal.</td></tr>
</table>
</td>
<td>
<table>
<tr><th>Sr. No</th><th>Water Requirement</th><th>Quantity</th><th>Source of Water</th></tr>
<tr><td>1</td><td>Fresh Water Demand</td><td>2.48 MLD</td><td>Rajbaha Canal.</td></tr>
</table>
</td>
</tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>2</td><td>Recycled Water</td><td>1.40 MLD</td><td>Treated Waste Water</td></tr>
<tr><td></td><td>Total</td><td>3.40 MLD</td><td></td></tr>
</table>
</td><td>
<table>
<tr><td>2</td><td>Recycled Water</td><td>0.87 MLD</td><td>Treated Waste Water</td></tr>
<tr><td></td><td>Total</td><td>3.35 MLD</td><td></td></tr>
</table>
</td></tr>
<tr><td>6.</td><td>Waste water generation &its disposal Arrangement</td><td>
<table>
<tr><th>Particulars</th><th>WW Gen.</th><th>Effluent Treatment & disposal facility</th></tr>
<tr><td>Domestic</td><td>0.4 MLD</td><td>STP of capacity 0.5 MLD will be installed within the project premises and entire treated waste water will be used in green area/ Horticulture.</td></tr>
<tr><td>Industrial</td><td>1.48 MLD</td><td>Waste water will be treated in CETP of capacity 1.5 MLD followed by RO plant with MEE and recycled in cooling Tower & industrial process to maintain the Zero Liquid Discharge (ZLD.)</td></tr>
<tr><td>Total</td><td>1.88 MLD</td><td>Zero Liquid Discharge (ZLD) Technology willbe adopted for the industrial park.</td></tr>
</table>
</td><td>
<table>
<tr><th>Particulars</th><th>WW Gen.</th><th>Effluent Treatment & disposal facility</th></tr>
<tr><td>Domestic</td><td>0.147 MLD</td><td>The Anchor unit will install its own STP and common STP of capacity 0.05 MLD will be installed by PSIEC and treated waste water will be used in green area/ Horticulture.</td></tr>
<tr><td>Industrial</td><td>0.780 MLD</td><td>No CETP will be required/provided. All the individual units shall install their own ETP with Zero Liquid Discharge (ZLD) Technology.</td></tr>
<tr><td>Total</td><td>0.927 MLD</td><td>.</td></tr>
</table>
</td></tr>
<tr><td>7.</td><td>Details of Hazardous Waste</td><td>
<table>
<tr><th>Sr. No.</th><th>Particulars</th><th>Quantity</th><th>Treatment/ disposal</th></tr>
<tr><td>1.</td><td>Hazardous waste (ETP sludge from CETP)</td><td>6 TPD (180TPM)</td><td>Sent to the TSDF, Nimbua.</td></tr>
</table>
The PSIEC shall make proper arrangement for storage & disposal of ETP sludge as per the provisions of Hazardous Waste Management Rules), 2016. Further the individual industries shall also make proper arrangement for storage & disposal of ETP sludge/ other hazardous wastes as per the provisions of Haz. Waste Management Rules), 2016.
</td><td>
<table>
<tr><th>Sr. No.</th><th>Particulars</th><th>Quantity</th><th>Treatment/ disposal</th></tr>
<tr><td>1.</td><td>Hazardous waste (ETP sludge from Individual units)</td><td>2 TPD (60 TPM)</td><td>Sent to the TSDF, Nimbua.</td></tr>
</table>
The individual industries shall make proper arrangement for storage & disposal of ETP sludge/ other hazardous wastes as per the provisions of Hazardous Waste Management Rules), 2016.
</td></tr>
<tr><td>17.</td><td>Solid Waste generation and its modeof disposal:</td><td>
<table>
<tr><th>Sr. No</th><th>Particulars</th><th>Total</th><th>Treatment/ disposal</th></tr>
<tr><td>1</td><td>Municipal SolidWaste</td><td>600 Kg/ day</td><td>Authorized MSW landfill</td></tr>
</table>
</td><td>
<table>
<tr><th>Sr. No</th><th>Particulars</th><th>Total</th><th>Treatment/ disposal</th></tr>
<tr><td>1</td><td>Municipal Solid Waste</td><td>700 Kg/ day</td><td>Authorized MSW landfill</td></tr>
</table>
</td></tr>
</table>

		2	STP Sludge (Biological Treatment	300 Kg/ day	To be used as manure.	2	STP Sludge (Biological treatment	35 Kg/ day	To be used as manure.
		3	Rice Husk/ CoalAsh	120 MT/ Month	As per the PPCB guidelines.	3	Rice Husk/ Biomass Ash	35 MT/ Month	As per the PPCB guidelines.
18.	Energy requirements & savings:	**(i) Energy requirement** Total estimate load of the proposed project will be 29.01 MW. **(ii) Energy Saving** a) Solar panels with battery backup (2 days) will be installed on 24 m, 18 m wide roads with interval of 15m on both sides. An amount of Rs. 3 Crores will be allocated for Solar street lights in EMP budget to save the electric energy. b) Individual industries in the Industrial Park be asked to install solar water heaters for pre-heating and utilize the same in the industrialprocess.				**(i) Energy requirement** Total estimate load of the proposed project will be 30.38 MW (33.75 MVA). **(ii) Energy Saving** a) Solar panels with battery backup (2 days) will be installed on 24 m, 18 m wide roads. Adequate amount shall be allocated for Solar lights/Solar System, to save the electric energy. b) Individual industries in the Park will be asked to install solar water heaters/solar panel as per norms.			

During meeting, PSIEC presented the water balance for the entire project before the Committee and as per the said water balance, total water demand for the industrial estate shall be 4390 KLD out of which 3303 KLD shall be for the Anchor unit going to be developed in 80 acres of plot area and remaining 1087 KLD shall be required for the remaining units and common facilities/utilities with details as under:

Sr. No.	Plot Sizes (Acres)	Approx. Manpower	Estimated Water Demand in KLD			Estimated Wastewater Generation in KLD		Type of water treatment	Utilization of treated waste water in KLD		Green Area in acres
			Domestic	Industrial	Green belt	Dom.	Trade		Recycle	Green area	
1	80	3000	130	2585	588	105	630	STP & ETP based on Tertiary Treatment and Zero Liquid Discharge (ZLD)	300	385	26.4
2	14.85	500	25	300	109	20*	80	ETP based on Tertiary	70	10	4.9

								Treatment and Zero Liquid Discharge (ZLD)			
3	6	300	15	200	44	11*	45	ETP based on Tertiary Treatment and Zero Liquid Discharge (ZLD)	40	5	1.98
4	3	200	10	150	22	7*	25	ETP based on Tertiary Treatment and Zero Liquid Discharge (ZLD)	20	5	1
5	Remaining area (28.1 acre)	100	5	0	207	4*	0	Common STP of 50 KLD by PSIEC	0	4	9.3

*PSIEC will provide common STP of 50 KLD capacity and treated waste water shall be used for plantation in the green area of 9.3 acres.

The Environmental Consultant of the PSIEC informed that the total scheme area has been slightly increased from 130.32 acres to 131.95 acres due to certain errors in the revenue records. Further, it was informed that the individual Plot owners shall provide 33% green area. Further, 15-meter green belt shall be provided all along the boundary wall along with 15-meter green belt on both sides of the Choe/drain passing through the project area. The Anchor unit of 80 acres shall provide ETP for the treatment of trade effluent based on Zero Liquid Discharge (ZLD) Technology and also provide independent STP for the treatment of domestic effluent. The domestic effluent after treatment shall be used for the green belt. Further, the remaining 3 Plot owners of 15 acres, 6 acres & 3 acres shall provide independent ETPs based on ZLD Technology for the treatment of trade effluent. The PSIEC shall provide Common STP for the treatment of domestic effluent being generated by these 3 Plot owners. It was also informed that PSIEC shall provide the operation & maintenance for the common STP initially for a period of 10 years and thereafter, the operation & maintenance this common STP shall be handed over to the Special Purpose Vehicle (SPV) formulated by these units.

After detailed deliberations, SEAC decided to forward the case to SEIAA with recommendations to consider the proposal for grant of amendment in Environmental Clearance subject to the conditions as per earlier Environmental Clearance and following special conditions:

Special Conditions:

1. PSIEC shall impose the following conditions in the allotment letter of the individual plot owners:

   (i) That the individual Plot owner shall obtain Environmental Clearance under EIA notification dated 14.09.2006, if applicable, as per schedule appended with EIA notification dated 14.09.2006.
   (ii) That no treated/untreated wastewater shall be discharged into the choe/drain passing through the project site.
   (iii) That the individual plot owners shall provide the Effluent Treatment Plant (ETP) & Sewage Treatment Plant (STP) based on ZLD Technology, as applicable, at a location which shall be at farthest distance from the Choe/drain.
   (iv) That the individual Plot owners shall mandatorily provide minimum 33% of the green area by planting trees of 6 ft height of native species including 15-meter width green belt along the outer boundary wall, as per the plan approved by PSIEC.

2. That PSIEC shall provide common STP of adequate capacity for the treatment of domestic effluent being generated from the 15 acres, 6 acres & 3 acres Plots and other areas/buildings such as commercial, public building, disposal works etc., Further, the responsibility for operation & maintenance of this common STP shall lies with PSIEC.

3. PSIEC shall ensure the compliance of conditions mentioned in the allotment letter of individual Plot owners and in case of any violation of these conditions, PSIEC shall take strict action as per the provisions of law.

Item No. 221.02: Application for Environment Clearance under EIA notification dated 14.09.2006 for the establishment of new API Bulk Drug Pharmaceutical manufacturing unit by "M/s Akums Lifesciences Limited at village Chhachrauli, Tehsil Dera Bassi, District SAS Nagar, Punjab, (Proposal No. SIA/PB/IND3/247434/2021).

The industry was granted Environmental Clearance under EIA notification dated 14.09.2006 for manufacturing of the following API Bulk Drugs. The said Environmental Clearance was issued by MoEF&CC vide letter No. J-11011/988/2008-IA II (I) dated 14.09.2011 in the name of M/s Parabolic Drugs Limited.

Sr. No.	Products Name	(Quantity) Kg/Month	(Quantity)Kg/day
1.	Carvidelol	5000	200
2.	Efavirenz	4000	160
3.	Lacidipine	1000	40
4.	Paroxetine	5000	200
5.	Ropinirole	1000	40
6.	Rosiglitazone	2000	80
7.	Telmisartan	4000	160
8.	Valsartan	6000	240
9.	Venlafaxine	5000	200
Total		**33000**	**1320**

The industry was earlier granted Environmental Clearance in the name of M/s Parabolic Drugs Limited and machinery was installed by said industry within the validity period of Environmental Clearance. Further, Consent to Operate under the provisions of Water Act 1974 & Air Act 1981 was granted to industry for the manufacturing of 7 APIs products. Later on, due to financial constraints, insolvency proceedings were commenced against the industry M/s Parabolic Drugs Limited by NCLT and Mr. Sanjay Kumar was appointed as Insolvency Resolution Professional (IRP) in the matter of the said industry by Hon'ble NCLT Chandigarh. Thereafter, resolution plan was submitted and the same was approved. The industry has changed its name in the year 2021 from M/s Parabolic Drugs Limited to M/s Akums Lifesciences Limited.

The industry was granted Consent to Operate under the provision of Water Act 1974 & Air Act 1981 in the name of M/s Akums Lifesciences Limited, Village Chhachrauli, Tehsil Dera Bassi, District SAS Nagar which is valid up to 31.03.2022 for the manufacturing of API drugs i.e. Carvidelol @ 60000 kg/year, Efavirenz @ 48000 kg/year, Lacidipine @ 12000 kg/year, Paroxetine

@ 60000 kg/year, Ropinirole @ 12000 kg/year, Rosiglitazone @ 24000 kg/year, Telmisartan @ 48000 kg/year.

The industry has submitted afresh application in the name of M/s Akums Lifesciences Limited for the increase in the production capacity of the following APIs products. The industry has submitted Form-1 along with documents as per the checklist approved by SEIAA. The details pertaining to the products for which Environmental Clearance was granted and proposed No. of products which are to be manufactured are as under:

Sr. No.	Name of Products	EC accorded			Proposed (TPA)	Total after expansion (TPA)
		In Kg/month	In Kg/day	TPA		
1.	Carvidelol	5000	200	60	-60	0
2.	Efavirenz	4000	160	48	-48	0
3.	Lacidipine	1000	40	12	-12	0
4.	Paroxetine	5000	200	60	-55	5
5.	Ropinirole	1000	40	12	-12	0
6.	Rosiglitazone maleate	2000	80	24	-24	0
7.	Telmisartan	4000	160	48	-48	0
8.	Valsartan	6000	240	72	-72	0
9.	Venlafaxine	5000	200	60	-60	0
10.	Losartan Potassium	-	-	-	20	20
11.	Atorvastatin Calcium	-	-	-	24	24
12.	Chloroxazone	-	-	-	15	15
13.	Citicholine Sodium	-	-	-	36	36
14.	Metaprol Succinate	-	-	-	25	25
15.	Olmesartan Medoximil	-	-	-	5	5
16.	Dapoxetine HCL	-	-	-	5	5
17.	L-Carnitine	-	-	-	5	5
18.	Piracetam	-	-	-	30	30
19.	Pantaprazole Sodium	-	-	-	60	60
20.	Leviteracetam	-	-	-	5	5
21.	n-acetyl Cysteine	-	-	-	5	5

22.	Cyclophosphamide	-	-	-	12	12
23.	Sildenafil Citrate	-	-	-	12	12
24.	Tadalafil	-	-	-	10	10
25.	Omeprazole	-	-	-	60	60
26.	Lenalidomide	-	-	-	1	1
27.	Letrozole	-	-	-	1	1
28.	Anastrazole	-	-	-	1	1
29.	Palbociclib	-	-	-	1	1
30.	Bicalutamide	-	-	-	4	4
31.	Abiraterone acetate	-	-	-	4	4
32.	Pemetrexed	-	-	-	1	1
33.	Methotrexate	-	-	-	1	1
34.	Exemestane	-	-	-	1	1
35.	Imatinib mesylate	-	-	-	10	10
36.	Lapatinib	-	-	-	1	1
37.	Leveteracetum	-	-	-	6	6
38.	Braviracetum	-	-	-	3	3
39.	Linazolid	-	-	-	24	24
40.	Rosuvastatin	-	-	-	18	18
41.	DAPA	-	-	-	3	3

The cost of expansion for the industrial project Rs. 50 Crores. The industry has deposited Rs. 5 lacs vide UTR No. N355211761043119 dated 21.12.2021. The adequacy of the fee deposited by the Project Proponent has been checked and verified by supporting staff SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

The Project is covered under Schedule 5(f) & Category 'B2' as per EIA Notification, 2006. in light of O.M dated 27.03.2020, 15.10.2020, & 16.07.2021. In the latest OM dated 16.07.2021, it has been mentioned as under:

"All proposals for projects or activities in respect of Active Pharmaceutical Ingredients (API), received from 16th July, 2021 to 31st December, 2021, shall be appraised, as Category 'B2' projects, provided that any subsequent amendment or expansion or change in product mix, after the 31st December, 2021, shall be considered as per the provisions in force at that time."

Since, the project has applied for obtaining Environmental Clearance on 28.12.2021, the project can be considered as B2 category project.

Furthermore, PPCB was requested to send the latest construction status report of the project through e-mail on 25.02.2022. Punjab Pollution Control Board vide letter no. 2070 dated 29.03.2022 has sent the latest construction status report with details as under:

"It is intimated that vide email dated 25.2.2022, SEIAA has sought the report w.r.t. Construction status, status of physical structures within 500 m radius of the site and compliance regarding siting criteria for this project.

The project has submitted that the industry was granted Environmental clearance by MoEF vide file no. J-11011/988/2008- IA II (I) dated 14/09/2011 for 9 API products. However, industry is presently manufacturing only 7 API products. Now, Industry is further planning to increase the production capacity by adding 32 APIs and by (decreasing the production capacity as compared to earlier granted EC) of one existing products of Paroxetine. The comparison details of exiting as well as proposed APIs product are as per the EC applied by the industry.

The site of the industry was visited by the AEE of this office on 22/03/2022 and the point-wise is as under:

Sr. No.	***Report of point sought by SEIAA***	***Remarks***
A.	*Construction status of the proposed project. Please send the clear-cut report as to whether construction/new machinery for the proposed project has been started/ installed for the project except securing the land.*	*No construction has been started by the industry at the expansion site.*

B.	*Status of physical structures within 500 m radius of the site including the status of industries, drain, river eco-sensitive structure if any.*	*1. The following units are located within 500 m radius of the unit:* *2. No rice sheller/ stone crusher/ hot mix plant/ brick kiln exist within 500 mtr from the proposed site.* *3. There is no jaggery, petroleum outlet exist within 100 mtr of the site.* *4. There is one perennial chose passing adjoining the industry.* *5. There is no drain/ nallah/ choe exist within 500 mtr of the site.* *6. There is no eco-sensitive structure within 500 mtr of the site.*
C.	*Whether the sites meeting the prescribed criteria for setting up of such type of projects. Please send the clear-cut recommendation.*	*The govt. has not framed any specific guidelines for setting of such type of units. However, the proposed site is complying with the general sitting guidelines framed by the Government of Punjab for such project. It is further submitted that the industry has already obtained Change of Land Use (CLU) issued by the CTP vide letter5 dated 30/09/2009 for an area of 22.92-acre land of industrial purpose at village Chhalchrauli Derabassi, Distt. SAS Nager.*

It is further intimated that the Board is continuously receiving the complaints against the industry regarding the pollution caused by it in the vicinity to degrade the environment. Accordingly, the industry has been served notice under the relevant Environment Laws for taking further action in the matter."

Deliberations during 218th meeting of SEAC held on 11.04.2022.

The meeting was attended by the following:

(i) Mr. Luxmipati Shriram, Vice President of M/s Akums Lifesciences Limited.

(ii) Mr. Sandeep Garg, EIA Coordinator, M/s Eco laboratories Pvt Ltd.

(iii) Mrs. Simranjit Kaur, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.

SEAC allowed the Environmental Consultant of the Project Proponent to present the salient features of the project. He, thereafter, presented the case as under:

1.	Name of the project:	M/s Akum Lifesciences Limited Village Chhachrauli, Tehsil Derabassi, Distt. Mohali, Punjab

2.	Whether the project falls in the critical polluted area notified by MoEF&CC /CPCB. (Yes/No) If no and the proposed project site lies in the same or neighbouring district of critically polluted area, then details the distance of project site from the boundary of critically polluted area verified by the regional office of SPCB. (Submitted/Not submitted)	No, the industry does not fall in the critically polluted area notified by MoEF&CC /CPCB. The nearest critically polluted area is Ludhiana which is not within the district or neighboring district.
3.	Project area involves forest land, (Yes/No), **If yes,** then details of the extent of area involved and copy of permission & approval for the use of forest land	No, a self-declaration to the effect that the clearance is not required under the provisions of the Forest Conservation Act 1980 submitted. Further, the Project Proponent also undertakes that the project is not covered under the PLPA 1900.
4.	If the project falls within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary. If yes,	i. Khol Hi-Raitan Wild Life Sanctuary situated at distance of 22 Km from the location of the proposed project. ii. The MoEF&CC vide notification dated 24.10.2016 declared eco-sensitive zone varies from zero to 925 m around the boundary of Khol Hi-Raitan Wild Life Sanctuary comprising an area of 1320 hectares approximately.

<table>
<tr><td></td><td>a. Name of eco-sensitive area/ National park/Wild Life Sanctuary and distance from the project site.
b. Status of clearance from the National Board for Wild Life (NBWL)</td><td>iii. The industry is located outside the eco-sensitive zone of Khol Hi-Raitan Wild Life Sanctuary.

A self-declaration to the effect that the project does not require the clearance under the provisions of Wild Life (Protection) Act 1972 submitted.</td></tr>
<tr><td>5.</td><td>Total Project Cost (In Crores):

Total project cost breakup at current price level duly certified by Chartered Engineer/ Approved valuer or Chartered Accountant</td><td>(a) Total Project Cost (In Crores): Total estimated cost of the unit after expansion is Rs. 190.87 crores; out of which, existing cost is Rs. 140.87 crores.
(b) Total project cost breakup is given below:
<table>
<tr><th>Sr. No</th><th>Description</th><th>Existing (Rs. In Crores)</th><th>Proposed (Rs. in Crores</th><th>Total Cost (Rs. in Crores)</th></tr>
<tr><td>1</td><td>Cost of Land & Building Building</td><td>48.92</td><td>-</td><td>48.92</td></tr>
<tr><td>2</td><td>Plant & Machinery</td><td>91.95</td><td>50</td><td>141.95</td></tr>
<tr><td colspan="2">Total</td><td>140.87</td><td></td><td>190.87</td></tr>
</table></td></tr>
<tr><td>6.</td><td>Details of technology proposed for control of emissions & effluents generated from project</td><td>The details of the Air Polluting machinery along with APCD after expansion is as under:
<table>
<tr><th>Sr. No.</th><th>Source</th><th>Fuel</th><th>Capacity</th><th>APCD</th></tr>
<tr><td>1.</td><td>Boiler</td><td>Rice Husk</td><td>5 Ton</td><td>Multi Cyclone separator with Chimney of height 30m</td></tr>
<tr><td>2.</td><td>Boiler</td><td>Rice Husk</td><td>5 Ton</td><td>Multi Cyclone separator with Chimney of height 30m</td></tr>
<tr><td>3.</td><td>Incinerator</td><td>HSD</td><td>1200 LPD</td><td>Scrubber with chimney height of 25m above roof level</td></tr>
<tr><td>4.</td><td>DG Set 1500 KVA</td><td>HSD</td><td>1*1500 KVA</td><td>Chimney height of 10m and acoustic enclosure.</td></tr>
</table></td></tr>
</table>

		5.	Pilot plant	For treatment of process/fugitive emissions	Packed bed scrubber with stack height of 3m above roof level.
		6.	Manufacturing block A	For treatment of process/fugitive emissions	Packed bed scrubber with stack height of 9m above roof level.
		7.	Manufacturing block B	For treatment of process/fugitive emissions	Packed bed scrubber with stack height of 9m above roof level.
		8.	Process stack	For treatment of process/fugitive emissions	Scrubber with stack height of 3m above roof level.
		9.	Process stack	For treatment of process/fugitive emissions	Scrubber with stack height of 3m above roof level.

7. Plot Area Details

The total area of the industry is 23.6 acres and for expansion, no new land is required. The land use planning is given below:

S. No.	Details	Area
1.	Total Land Area	95,506 sq.m. (23.6 acres)
2.	Administration Block (Block A)	942 sq. m.
3.	Block B	621 sq. m.
4.	Block C1 & C2	1725 sq. m.
5.	Warehouse (Block D)	1496 sq. m.
6.	Solvent Recovery Plant (Block E)	1565 sq. m.
7.	Utility (Block F)	875 sq. m.
8.	ETP Area (Block G)	1290 sq. m.
9.	Security/OHC (Block H)	152 sq. m.
10.	Engineering (Block I)	630 sq. m.
11.	Boiler House (Block J)	291 sq. m.
12.	Transformer and DG Area	640 sq. m.
13.	66 KVA Substation	576 sq. m.
14.	DM Water System	105 sq. m.
15.	Green Area	31,906 sq. m.

8. Type of project land as per master plan (Industrial/ Agriculture/ Any other), If non industrial land then the details of Land Use

As per the location shown in the Master Plan Lalru, the site of the unit falls in industrial zone. A copy of agreement executed between the Punjab State Govt. and M/s Parabolic Company wherein it has been mentioned that the company is allowed for carrying out expansion on additional land of 27.5 killa, 1 biswa and village chachrauli with investment of Rs. 103 crore over a period of five years from 14.12.2006.

	Certificate / permissibility Certificate from Competent Authority (DTP/CTP) intimating land use pattern of the project site as per proposals of Master Plan of the area. (Submitted/Not Submitted)	
9.	Whether any litigation pending against the project or any direction/order passed by SPCB/ Court of Law against the project, if so, details there of shall also be included.	There is no litigation pending against the industry. Undertaking regarding the same submitted.
10.	Details water consumption, wastewater generation & its treatment	i. The total water demand of the industry shall be 726 KLD, out of which fresh water demand of 534 KLD shall be met through existing 1 no. of borewell and remaining 192 KLD shall be met through treated wastewater. ii. Out of total quantity of 534 KLD of fresh water demand, 330 KLD shall be utilized for meeting cooling water makeup, 55 KLD for boiler, 120 KLD into the process 11 KLD for floor washing and 18 KLD domestic purpose. iii. The total wastewater in the form of HTDS shall be 72 KLD and LTDS shall be 48 KLD. The total quantity of effluent generated from cooling tower, boiler blow down and floor washing shall be 21 KLD, 15 KLD & 11 KLD respectively. iv. The entire quantity of 95 KLD of effluent generated from the industry except HTDS effluent shall be treated in the ETP of capacity 125 KLD. v. The treated wastewater generated from ETP shall be further treated in RO of capacity 125 KLD, out of which 10 KLD of RO reject shall be sent to MEE for further treated and remaining 100 KLD of RO permeate shall be utilized back in the process and other utilities. Furthermore, the HTDS effluent of 72 KLD shall be treated in MEE of capacity 130 KLD. The MEE

Condensate reject of quantity 72 KLD along with steam condensate of quantity 20 KLD shall be utilized back in the process and other utilities.

vi. In the summer season, out of total quantity of 192 KLD of treated wastewater, 17 KLD shall be utilized for meeting cooling water demand and remaining 175 KLD shall be utilized for gardening purpose in an area of @ 31,906 sqm, whereas in winter season, 135 KLD shall be utilized for meeting cooling water demand and remaining 57 KLD shall be utilized for gardening purpose whereas in rainy season, 176 KLD shall be utilized for meeting cooling water demand and remaining 16 KLD shall be utilized for gardening purpose

Domestic wastewater treatment:

I. The total domestic wastewater generation shall be 15 KLD which shall be treated separately in STP of capacity 30 KLD. The treated wastewater shall be sent to RO for further treatment.

II. The industry shall not discharge any treated wastewater outside the premises and shall utilized entire quantity of treated wastewater within the premises of the unit. Hence the proposal of the industry is based on Zero Liquid Discharge.

11. Hazardous/Non-Hazardous Waste Generation details & their storage, utilization and its disposal. Copy of Agreement clearly mentioning the Quantity

Sr. No.	Name of Waste	Category	Waste Generation		Mode of Disposal
			Existing (as per HW authorization)	Total (After expansion)	
1	Incinerator Ash	37.2	3.12 T/annum	6 T/ annum	Storage & thereafter disposal through CSTDF, Ramky Enviro Engineers Ltd.
2	ETP Sludge	35.3	0.975 T/annum	18 T/ annum	Storage & thereafter disposal through CSTDF, Ramky Enviro Engineers Ltd.
3	Spent Oil	5.1	0.78 T/annum	2.4 KL /annum	Storage & thereafter disposal to

						Golden Petro
		4	Empty Barrels/ containers/ drums	33.1	780 No./ year	1200 No./ annum	Storage & thereafter disposal through authorized reprocessor / recycler
		5	Distillation Residue	20.3	109.2 T/annum	109.2 T /annum	Storage & thereafter captive Incineration
		6	MEE Salt	37.3	30 T/annum	48 T/ annum	Storage & thereafter disposal through CSTDF, Ramky Enviro Engineers Ltd.
		7	Spent Carbon	28.3	0.39 T/annum	6 T/ annum	Storage & thereafter captive Incineration
		8	Spent catalyst	28.2	0.9 T/annum	2.4 T/ annum	Recycling
		9	Filter Cloths & Pads	36.2	0.195 T/annum	3.6 T/ annum	Storage & thereafter captive Incineration
		10	Off. Specificatio n	28.4	1.3 T/annum	2.4 T /annum	Storage & thereafter captive Incineration
		11	Spent solvent	28.5	98.15 T/annum	98.15 T/annum	Recycling and recovery
		12	Process residue	28.1	109.9 T/annum	109.9 T/ annum	Incineration
		i. The hazardous waste generated shall be stored, managed and disposed of as per Hazardous Waste Management Rules, 2016. ii. LOI has been done with M/s Ramky Enviro Engineers Ltd for disposal of incinerator ash, ETP sludge and salts from MEE. Copy of agreement submitted.					

<table>
<tr><td></td><td></td><td>iii. The spent oil shall be disposed of to authorized vendor i.e. M/s Golden Petro. Copy of agreement submitted.</td></tr>
<tr><td>12.</td><td>Solid Waste generation and its mode of disposal</td><td>i. Presently, Recyclable paper waste of about 100 kg/month is being generated from the unit and after expansion, about 125 kg/month will be generated from the unit. This waste is being sold to the local kabadis.
ii. Canteen waste of approx. 20 kg/day is being generated which is being currently picked by the vendor for cattle feeding. Further, overall, 40 kg/day will be generated for which company is planning to install Mechanical Composter of 50 kg.</td></tr>
<tr><td>13.</td><td>Rain Water utilization proposal</td><td>Pond will be adopted in the nearby village for rain water recharging of groundwater.</td></tr>
<tr><td>14.</td><td>Blockwise details of no. of trees to be planted in proposed greenbelt area(1500 Trees to be planted @ 10000 Sqm area):</td><td>Total 31,906 sq.m. of green area has been provided within the industry.</td></tr>
<tr><td>15.</td><td>Energy requirements & savings:
Energy saving measures to be adopted within industry:</td><td>a. The details of the energy are given below:
<table>
<tr><th>S. No.</th><th>Description</th><th>Unit</th><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1.</td><td>Power load</td><td>KW</td><td>2523</td><td>--</td><td>2523</td></tr>
<tr><td>2.</td><td>D.G sets</td><td>KVA</td><td>1×500 + 1×250</td><td>Replacement of both DG sets with 1500 kva</td><td>1 × 1500</td></tr>
</table>
b. Energy conservation measures are being taken at the project site.</td></tr>
<tr><td>16.</td><td>EMP Budget details

Details of Environment Management Cell (EMC) responsible for implementation of EMP</td><td>a. EMP budget details:
<table>
<tr><th>Sr. No.</th><th>Details</th><th>Capital Cost (In Lacs)</th><th>Recurring Cost (In Lacs /annum)</th></tr>
<tr><td>(i)</td><td>APCD</td><td>25</td><td>6</td></tr>
<tr><td>(ii)</td><td>STP</td><td>25</td><td>10</td></tr>
<tr><td>(iii)</td><td>MEE upgradation</td><td>325</td><td>25</td></tr>
<tr><td>(iv)</td><td>OCEMS</td><td>-</td><td>1</td></tr>
</table></td></tr>
</table>

		(v)	Green belt development with maintenance plan for 3 years	35	6
		(vi)	Rain Water Harvesting	10	0.5
		(vii)	Environment Monitoring	Nil	8
		(viii)	Solid Waste Management	40	15
		(ix)	Energy Conservation	25	2.5
		(x)	Disaster and Risk Management	-	10
		(xi)	Any other	-	-
		Total		**485**	**88.5**
		b. Mr. Lakshmipathy Sriram, Vice President (Operations) of M/s Akums Lifesciences Ltd., is responsible for implementation of Environment Management Plan. Rs. 485 Lakhs has been planned to be reserved for EMP for expansion project as capital cost. While, Rs. 88.5 Lakhs/annum has been planned to be reserved for EMP as recurring cost.			
17.	Details of the activities proposed to be covered under CER	CER is a part of EMP. However, Rs. 20 lakh has been reserved for CER under activities for pond adoption in nearby village.			

During meeting, the Committee observed that the project attracts the provisions of Activity 5(f) of the Schedule appended with the EIA notification dated 14.09.2006. As per the said provisions, the General & Specific conditions are applicable to the project. The Committee asked the Project Proponent to submit the compliance of General & Specific conditions in an annotated form so as enable the Committee to decide the competency of the Authority for the appraisal of the case. The Project Proponent agreed to provide the details.

Thereafter, the Committee perused the status report furnished by Punjab Pollution Control Board, wherein it has been mentioned that Punjab Pollution Control Board is continuously receiving the complaints against the industry regarding the pollution caused by it in the vicinity to degrade the environment. The Committee asked the Project Proponent regarding the context of the complaints filed by complainants and submit the relevant documents pertaining to the complaint. The Project Proponent apprised the Committee that Punjab Pollution Control Board has issued Show Cause Notice to the industry for violation of the provisions of Air Act 1981 stating that one of the parameters i.e Silica was outside the permissible limit. Further, it was informed that he has submitted the reply of show cause notice issued by the Board. The Committee decided that the Project Proponent shall submit the details of reply submitted to PPCB and PPCB will also be requested to provide the details of the complaints received against the industry along with the action taken by the Board against the complaints.

The Committee observed that the multi cyclone separators and scrubber proposed with rice husk fired boilers of 5-ton capacity each and incinerator may not be sufficient to achieve the prescribed standard of suspended particulate matter. The Committee suggested the Project Proponent shall provide multi cyclone separator followed by bag filter (offline) to achieve the prescribed standard of suspended particulate matter and shall provide two stages scrubbing with incinerator. The Project Proponent agreed to the same.

The Committee further asked the Project Proponent to provide the details of source of process emission/fugitive emissions being generated from pilot plant, manufacturing block A & B and process stacks. The Project Proponent agreed to provide the details.

The Committee further perused the details of the disposal of hazardous waste generation and observed that the hazardous waste of category 33.1 i.e. empty barrels/containers/drums shall be disposed through authorized re-processor/recycler. Further, the hazardous waste of category 28.5 i.e. spent solvent shall be recycled & recovered. After perusal, the Committee observed that no details pertaining to authorized agencies to whom the said quantity of waste shall be given has been specified by the Project Proponent. The Committee asked the Project Proponent to submit the details of the authorized agencies to whom the aforementioned hazardous waste shall be given for carrying out recycling & recovery. The Project Proponent agreed to the same.

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 the pointwise compliance of the General & Specific conditions as appended in the EIA Notification dated 14.09.2006.
2. The Project Proponent shall submit the details of reply submitted to PPCB for the show cause notice issued to the industry.
3. The Project Proponent shall provide multi cyclone separator followed by pulse jet bag filter (offline) with rice husk fired boilers of 5-ton capacity each to achieve the prescribed standard of suspended particulate matter and shall provide two stages scrubbing system with incinerator.
4. The Project Proponent shall submit the details of source of process emission/fugitive emission being employed in Pilot Plant, Manufacturing Block A & B and process stacks where packed bed scrubber/scrubber are proposed to control the emissions.
5. The Project Proponent shall submit the details of the authorized agencies to whom the hazardous waste shall be given for carrying out recycling and recovery.
6. The Project Proponent shall submit NOC for carrying out the rain water harvesting in the village pond.
7. The Project Proponent shall submit the revised water balance for the existing and proposed unit.
8. The Project Proponent shall also revise the Environment Management Plan after incorporating the above said details.

In compliance to the decision taken by the Committee, Punjab Pollution Control Board vide letter no. 81 dated 13.04.2022 was requested to furnish the details of the complaint received

against the industry along with the Action Taken by the Board against these complaints. The report of Punjab Pollution Control Board is awaited.

Deliberations during 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Mr. Luxmipati Shriram, Vice President of M/s Akums Lifesciences Limited.

(ii) Mr. Sandeep Garg, EIA Coordinator, M/s Eco laboratories Pvt Ltd.

(iii) Mrs. Simranjit Kaur, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.

The Project Proponent presented the ADS reply of the aforementioned observations as under:

Sr. No.	Observations	Reply
1.	The Project Proponent shall submit the pointwise compliance of the General & Specific conditions as appended in the EIA Notification dated 14.09.2006.	Point wise compliance of general and specific conditions submitted, as under: 1. No protected area under the Wild Life (Protection) Act, 1972 (53 of 1972) falls within 5 km of project location. 2. No critically polluted area falls within 5 km of project location. 3. No eco-sensitive area falls within 5 km of project location. 4. Punjab-Haryana Boundary is situated at a distance of approx. 400 m from the project location. As per MoEF&CC notification dated 27th March, 2020 and further extension notification dated 16th July, 2021; In view of the COVID-19 pandemic and the requirement to expedite drug manufacturing, all proposals for projects or activities in respect of Active Pharmaceutical Ingredients shall be appraised as Category 'B2' projects.
5.	The Project Proponent shall submit the details of reply submitted to PPCB for the show cause notice issued to the industry.	Submitted.

<table>
<tr><td>6.</td><td>The Project Proponent shall provide multi cyclone separator followed by pulse jet bag filter (offline) with rice husk fired boilers of 5-ton capacity each to achieve the prescribed standard of suspended particulate matter and shall provide two stages scrubbing system with incinerator.</td><td colspan="5">Undertaking to the effect that multi cyclone followed by pulse jet bag filter (offline) will be installed as APCD with rice husk fired boilers of 5 TPH capacity each. Further, to stages scrubbing system will be provided as APCD on incinerator.</td></tr>
<tr><td>7.</td><td>The Project Proponent shall submit the details of source of process emission /fugitive emission being employed in Pilot Plant, Manufacturing Block A & B and process stacks where packed bed scrubber /scrubber are proposed to control the emissions.</td><td colspan="5"><table>
<tr><th>Sl. No.</th><th>Description</th><th>Fugitive emissions</th><th>Existing APCD</th><th>Proposed APCD</th></tr>
<tr><td>1.</td><td>Pilot plant</td><td rowspan="4">Acid mist as HCL and VOCs from use of ethanol, etc. will be generated as fugitive emissions</td><td>Packed bed scrubber with stack ht. of 3 m above roof.</td><td>-</td></tr>
<tr><td>2.</td><td>Manufacturing Block A</td><td>Packed bed scrubber with stack ht. of 9 m above roof.</td><td>-</td></tr>
<tr><td>3.</td><td>Manufacturing Block B</td><td>Packed bed scrubber with stack ht. of 9 m above roof.</td><td>-</td></tr>
<tr><td>4.</td><td>Process Stack</td><td>-</td><td>Scrubber with stack ht. of 3 m</td></tr>
</table></td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td></td><td></td><td></td><td>above roof.</td></tr>
<tr><td>5.</td><td>Process Stack</td><td></td><td>-</td><td>Scrubber with stack ht. of 3 m above roof.</td></tr>
</table>
</td></tr>
<tr><td>8.</td><td>The Project Proponent shall submit the details of the authorized agencies to whom the hazardous waste shall be given for carrying out recycling and recovery.</td><td>Hazardous waste agreement has been done for spent carbon, off specification products, distillation residue, chemical sludge, filter medium, incinerator ash and fuel gas cleaning residue and process residue for the disposal through CSTDF, Ramky Enviro Engineers Ltd. While, spent oil will be given to Golden Petro and empty barrels/containers/drums will be given to M/s Surya Chemicals. Revised hazardous waste agreements in this regard submitted.</td></tr>
<tr><td>9.</td><td>The Project Proponent shall submit NOC for carrying out the rain water harvesting in the village pond.</td><td>A request letter from Smt. Ritu Rani, Sarpanch, Gram Panchayat, Village Jaula Kalan, Block Dera Bassi, District SAS Nagar submitted. In the request letter, the Sarpanch of the Village requested the industry for initiating developmental activities related to pond rejuvenation, agriculture etc.</td></tr>
<tr><td>10</td><td>The Project Proponent shall submit the revised water balance for the existing and proposed unit.</td><td>Water balance for the existing & proposed scenario submitted. The comparison of the total water demand and waste water generation has been tabulated as under:
<table>
<tr><th>Sr. No.</th><th>Description</th><th>Quantity</th><th>Revised Quantity</th></tr>
<tr><td>1</td><td>Total water demand</td><td>373 KLD</td><td>567 KLD</td></tr>
<tr><td>2</td><td>Fresh Water demand</td><td>265 KLD</td><td>375 KLD</td></tr>
<tr><td>3</td><td>HTDS effluent</td><td>52.188 KLD</td><td>72 KLD</td></tr>
<tr><td>4</td><td>LTDS effluent</td><td>34.792 KLD</td><td>48 KLD</td></tr>
</table>
</td></tr>
<tr><td>11</td><td>The Project Proponent shall also revise the Environment Management Plan after incorporating the above said details.</td><td>
<table>
<tr><th>Sr. No.</th><th>Details</th><th>Capital Cost (Rs. Lakhs)</th><th>Recurring Cost (Rs. Lakhs/ annum)</th></tr>
<tr><td>1.</td><td>APCD (Boiler & Incinerator)</td><td>55</td><td>10</td></tr>
<tr><td>2.</td><td>STP of 30 KLD capacity</td><td>35</td><td>10</td></tr>
<tr><td>3.</td><td>MEE upgradation to 130 KLD</td><td>325</td><td>50</td></tr>
</table>
</td></tr>
</table>

		4.	OCEMS	-	1
		5.	Green belt development with maintenance plan for 3 years	35	35
		6.	Rain Water Harvesting	10	0.5
		7.	Environment Monitoring	Nil	8
		8.	Solid Waste Management (Composter of 50 kg and hazardous waste)	40	15
		9.	Energy Conservation (Solar Panel of 1 MW)	25	2.5
		10.	Disaster and Risk Management	-	10
		11.	CER Activities (Pond Rejuvenation)	30	-
		Total		**Rs. 555 Lakhs**	**Rs. 142 Lakhs/ annum**

During meeting, the Committee perused the earlier observations and the reply submitted by the Project Proponent. The Committee observed that Punjab Pollution Control Board vide letter no. 81 dated 13.04.2022 was requested to furnish the details of the complaint received against the industry along with Action Taken by the Board against these complaints. However, the Action Taken report is yet to be received from PPCB.

The Committee decided to again write to Punjab Pollution Control Board for submitting their Action Taken report on the complaints received against the industry within 15 days, failing which, the application proposal of the Project Proponent shall be appraised based on the record available with the Committee.

After deliberations, SEAC decided to defer case till the receipt of the Action Taken report from Punjab Pollution Control Board.

Item No 221.03: Application for obtaining expansion in Environmental Clearance under EIA notification dated 14.09.2006 for the expansion of a Housing project namely "Lok Awas" located at Sectors 74A, SAS Nagar, Punjab, by M/s Vera Developers Private Limited (Proposal No. SIA/PB/MIS/72657/2020).

Earlier the project proponent was granted Environmental Clearance vide SEIAA/2020/1484 dated 03.03.2020, for the Housing project namely "Lok Awas" located at Sector 74A, SAS Nagar, Punjab. The said EC was granted for construction of 1348 No. of flats. The plot area of the project was 101208 sqm and total built up area as 117940 sqm. The project was covered under activity 8 (a) and category B2 of EIA notification dated 14.09.2006.

The project proponent has submitted an application for obtaining expansion in Environmental Clearance for the construction of total no. of 6200 flats by increasing the land area from 101208 sqm to 146583 sqm and built up area from 117940 sqm to 579799.51 sqm. The Project is now covered under activity 8 (b) and category B1 of the schedule appended with the EIA notification dated 14.09.2006.

The Project Proponent was issued ToR by the MoEF&CC vide letter no. 21-92/2020-IA.III dated 09.12.2020.

The project proponent has submitted the Form 1, conceptual layout plan along with EIA report incorporated with the compliance of the Terms of References and other additional documents. The Project Proponent has also deposited the processing fee as per Govt. of Punjab notification dated 27.06.2019, amounting to Rs. 5,75,188/- through RTGS with reference no. HDFCR52022022398968540 dated 23.02.2022, as checked and verified by supporting staff SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

PPCB vide letter no. 901 dated 31.01.2022 has submitted certified compliance report of the conditions of the previous Environment Clearance granted to the Project Proponent.

Punjab Pollution Control Board vide letter no. 1945 dated 22.03.2022 has sent the latest construction status report with details as under:

"Vide above referred e-mail dated 9/3/2022, it has been informed that M/s Vera Developers Pvt. Ltd. has submitted an application for obtaining Expansion in the Environmental Clearance for the group housing project namely "Lok Awas" at Section 74 -A, SAS Nagar and has requested to send the report on the following points:

1) *Construction status of the proposed project. Please send the clear-cut report as to whether construction has been started for the expansion part of the project except securing the land.*
2) *Status of physical structures with 500 m radius of the site including the status of industries, drain, river, eco-sensitive structure etc.*
3) *Whether the site is meeting the prescribed criteria for setting up of such type of projects. Please sent clear-cut recommendations in this regard.*

The proposed site of project was visited by officer of the Board on 14/3/2022 and the point wise reply of the comments sought by SEIAA are given as under:

SR. No	***Tower No.***	***Structure of construction***
1	*B-1*	*PCC Laid, Raft Foundation under progress*
2	*B-2*	*Basement Complete, Stilt Roof slab under progress*
3	*B-3*	*Basement Roof Slab work under progress*
4	*C-1*	*Basement Roof Slab work completed*
5	*C-2*	*Excavation work completed*
6	*C-3*	*Basement Complete, Stilt Roof slab completed, 1st floor work under progress*
7	*C-4*	*Basement + Stilt + 9 floors structure work completed*
8	*C-5*	*Basement + Stilt Complete*
9	*C-6*	*Excavation and PCC work completed*
10	*C-7A*	*Excavation work completed*
11	*C-8A*	*Excavation work completed*

2) ***No construction work has been started in the extension part where Environmental Clearance is yet to be obtained,*** *only one RMC batching plant has been set up at this site with inbuilt dust collector and excavation work has completed in location of tower C-7A & C-8A. The project proponent has provided silos for storage and transport of the cement and fly ash in the weighing chambers for making concrete. The Project proponent has provided water sprinklers to control dust emissions near the RMC site. One no. borewell has been done for extraction of*

groundwater for use in batching plant and water meter has been provided. The project proponent is using the RMC from this plant as well as procuring the RMC from outside also.

3 *With the expansion, the site of the project will just touch the boundary of the site of Common Bio-Medical Waste Treatment Facility M/s Rainbow Environments Pvt. Ltd., Balyali, Mohali. No. MAH industry/cement plant/ grinding unit/ rice sheller/ saila plant/ stone crushing/ screening cum washing unit/ hot mix plant/ brick kiln within a radius of 500 m from the boundary of the proposed site of the project. One Air polluting industry M/s Rainbow Environments Pvt. Ltd., Balyali, Mohali is located adjoining to the proposed site of the expansion part (Tower No. C3A & C3B). Therefore, the site of the project is not conforming to the sitting guidelines laid down by the Govt. of Punjab, Department of Science and Technology and Environment vide order dated 25/07/2008 as amended on 30/10/2009.*

It is further intimated that the proposed site is situated within the jurisdiction M.C, Mohali/ GMADA. However, the STP installed by GMADA authorities is not adequate to cater the quantity of additional effluent of this project. However, the upgradation of existing STP installed by GMADA authorities is yet to be made."

Deliberations during 218th meeting of SEAC held on 11.04.2022.

The meeting was attended by the following:

(i) Mrs. Rajni Mehra, CEO, M/s Vera Developers Private Limited.
(ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(iii) Sh. Deepak Gupta, Environmental Advisor of the Project Proponent.

SEAC allowed the Environmental Consultant of Project Proponent to present the salient features of the project. Thereafter, Environmental Consultant presented the case as under:-

<table>
<tr><th>Sr. No.</th><th>Description</th><th>Details</th></tr>
<tr><td>1</td><td colspan="2">Basic Details</td></tr>
<tr><td>1.1</td><td>Name of Project & Project Proponent:</td><td>"Lok Awas" & M/s Vera Developers Private Limited</td></tr>
<tr><td>1.2</td><td>Proposal:</td><td>Expansion of the residential group housing project</td></tr>
<tr><td>1.3</td><td>Location of Project:</td><td>Sectors 74A, SAS Nagar</td></tr>
<tr><td>1.4</td><td>Details of Land area & Built up area:</td><td>
<table>
<tr><th>Description</th><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>Land area</td><td>101208 sqm</td><td>45375 sqm</td><td>146583</td></tr>
<tr><td>Built up area</td><td>117940 sqm</td><td>461859.51 sqm</td><td>579799.51 sqm</td></tr>
</table>
</td></tr>
</table>

1.5	Category under EIA notification dated 14.09.2006	Activity 8 (b) and Category B1
1.6	Cost of the project	562 Crore including cost of land as Rs. 29.33 Crore and Cost of Construction as Rs. 532.67 Crore.
2.	**Site Suitability Characteristics**	
2.1	Whether project is suitable as per the provisions of Master Plan:	Submitted
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 area of 25 acres (101175 sq.m) in the name of M/s Vera Developers Private Limited obtained from STP, Department of Town & Country Planning, Punjab vide memo no. 1369-STP (S)/55-11 (GR) dated 15.06.2018.
3	**Forest, Wildlife and Green Area**	
3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	No, a self-declaration to the effect that no land covered under the Forest Conservation Act 1980 is involved in the project submitted.
3.2	Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900.	No, a self-declaration in this regard submitted by the Project Proponent.
3.3	Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:	No, a self-declaration in this regard submitted by the Project Proponent.
3.4	Whether the project is located within the 10 Km radius of the Critically Polluted Area.	No, the site of the project located in Sector 74A, SAS Nagar
3.5	Whether the project falls within the influence of Eco-Sensitive Zone or not.	No, a self-declaration to the effect that the project does not fall under the Eco-sensitive zone submitted. Distance of the site of the project from Sukhna Wildlife Sanctuary was checked by this office and same was approximately 12km.
3.6	Green area requirement and proposed No. of trees:	1. As per earlier Environmental Clearance accorded to the project, the green area proposed was 5673 sqm. 2. 38011 sqm has been proposed to be developed as green area. 25% of the area shall be developed as per green

		area. Further, total number of trees proposed to be planted are 1850 trees.
4.	**Configuration & Population**	
4.1	**Configuration**	

The details of the building blocks along with the area, no. of unit/floor and total no. of units to be constructed as mentioned in the conceptual plan re-produced as under:

POCKET	BLOCK	TYPE	AREA (SQ.MT.)	NO. OF UNIT/FLOOR	NO. OF FLOORS	TOTAL NO. OF UNITS
A	A1	3+3	93.6	4	25	100
	A2	3+3	93.6	4	25	100
	A3	3+3	93.6	4	25	100
	A3/1	3+3	93.6	4	25	100
	A3/2	3+3	93.6	4	25	100
	P1	3+3	93.6	4	25	100
	P2	3+3	93.6	4	25	100
	A4	2+2	68.9	12	25	300
	A5	2+2	68.9	12	25	300
	A6	2+2	68.9	10	25	250
	A7	2+2	68.9	10	25	250
	A8	2+2	68.9	12	25	300
TOTAL NO. OF UNITS IN POCKET A						**2100**
B	B1	2+2	68.9	8	25	200
	B2	2+2	68.9	8	25	200
	B3	2+2	68.9	8	25	200
	B4	2+2	68.9	8	25	200
	B5	1+1	44.7	8	25	200
	B7	2+2	68.9	4	25	100
TOTAL NO. OF UNITS IN POCKET B						**1100**
C	C4	2+1	57.5	8	25	200
	C5	2+1	57.5	8	25	200
	C6	2+1	57.5	4	25	100
	C3A	2+1	57.5	8	25	200
	C3B	1+1	44.7	16	25	400
	C3	2+2	68.9	8	25	200
	C2	2+2	68.9	8	25	200
	C9	2+2	68.9	8	25	200

	C1	2+2	68.9	8	25	200
	C7A	1+1	57.5	8	25	200
	C8A	1+1	57.5	8	25	200
	C7	1+1	57.5	8	25	200
	C8	1+1	57.5	8	25	200
	C11	2+2	68.9	8	25	200
	C12	2+2	68.9	4	25	100
TOTAL NO. OF UNITS IN POCKET C						**3000**
GRAND TOTAL NO. OF UNITS IN MASTER LAYOUT						**6200**
D	**SCO'S**	**SIZE IN SFT**	**SIZE IN SQM**	**NO. OF SCO'S**	**NO. OF FLOORS**	**TOTAL NO. OF SCO'S**
	1-35	20' X 80'	6.096 X 24.384	35	B+G+2	105

Land area classification:

SITE CALCULATIONS			
DESCRIPTION	**AREA (IN SQM)**	**AREA (IN ACRES)**	**PERCENTAGE (%)**
LOK Awas Scheme Area	151358.35		
Less for Area under Revenue Roads	-4775.39		
Total Area of Scheme (In Acres)	**146582.96**	**36.21**	
Area Under Sector Roads (In Acres)	8336.71	2.06	5.69%
Area Under Internal Roads including surface parking	61877.03	15.29	42.21%
RG Area (Organised) (In Acres)	23928	5.91	16.32%
RG Area (Un Organised) (In Acres)	14083	3.48	9.61%
Total Residential Area (In Acres Excluding EWS)	30044.75	7.42	20.49%
Area Under EWS (In Acres)	2038.59	0.50	1.38%
Area Under Commercial (In Acres)	5344.09	1.32	3.64%
Area Under Substation (In Acres)	930.79	0.23	0.64%
		36.21	**100%**

4.2	Population details	**Points**	**As per earlier EC**	**As per fresh proposal**
		No. of Flats	1348 flats @ 5 persons= 6740 persons	6200 flats @ 5 persons= 31000 persons

		No. of Shops	05 shops @ 2 persons/shop= 10 persons	35 @ 15 person/SCO= 525 persons
		Total	**6750**	**31525**
5	**Water**			
5.1	Total fresh water requirement:	2814 KLD		
5.2	Source:	Ground water		
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) *Details thereof*	Acknowledgement of the application submitted to PWRDA for abstraction of ground water @ 2814 KLD submitted.		
5.4	Comparison of the total water requirement as per the earlier Environmental Clearance and afresh proposal	**Points**	**As per earlier EC**	**As per fresh proposal**
		Total Water requirement	6750 persons @ 135 lpcd persons= 911 KLD (taken as **909 KLD**)	31000 persons @ 135 lpcd= 4185 KLD 525 persons @ 45 lpcd = 24 KLD (24+4185) = **4209 KLD**
5.5	Total wastewater generation:	3368 KLD		
5.6	Comparison of the total waste water generation as per the earlier Environmental clearance & fresh proposal	**Points**	**As per earlier EC**	**As per fresh proposal**
		Total wastewater generation	909 x 0.8 = **727 KLD**	4209x 0.8= **3368 KLD**
5.7	Treatment methodology: *(STP capacity, technology & components)*	STP of capacity 4900 KLD based on SBR shall be installed in modules of 500 KLD, 1000 KLD, 2000 KLD & 1400 KLD as per the increasing occupancy at project site. The components of the STP to be installed shall be collection tank, SBR reactors, clear water sump, Dual media filter & sludge drying beds.		
		Points	**As per earlier EC**	**As per fresh proposal**
		Proposal of STP	1100 KLD capacity	4900 KLD capacity
5.8	Treated wastewater for flushing purpose:	1395 KLD (31000 persons X 45 lpcd)		
5.9	Treated wastewater for green area in summer, winter and rainy season:	Summer- 264 KLD Winter- 86 KLD Rainy- 24 KLD		

<table>
<tr><td>5.10</td><td>Utilization/Disposal of excess treated wastewater.</td><td>Summer- 1709 KLD
Winter- 1887 KLD
Rainy- 1949 KLD
The aforementioned excess treated wastewater shall be discharged into sewer. A copy of the permission issued by GMADA vide letter no. SE(C-1)/GMADA/2019/887 dated 14.05.2019 wherein it has been mentioned that the GMADA will have no objection or allowing the project to connect the internal networks of water supply, sewerage, storm water drainage with the trunk sewer to be laid down by GMADA on the sector dividing road in due course of time.</td></tr>
<tr><td>5.11</td><td colspan="2">Cumulative Details:
<table>
<tr><th>Sr. No.</th><th>Seasons</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>Summer</td><td>4209</td><td>3368</td><td>3368</td><td>1395</td><td>264</td><td>1709</td></tr>
<tr><td>2.</td><td>Winter</td><td>4209</td><td>3368</td><td>3368</td><td>1395</td><td>86</td><td>1887</td></tr>
<tr><td>3.</td><td>Rainy</td><td>4209</td><td>3368</td><td>3368</td><td>1395</td><td>24</td><td>1949</td></tr>
</table></td></tr>
<tr><td>5.12</td><td>Rain water harvesting proposal:</td><td>The rainwater collected from the roof top, green area and roads& paved areas has been estimated as 60045 cum/year.</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>DG sets of capacity 2x1010 KVA, 4x500 KVA and 4x240 KVA has been proposed to be installed.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>Adequate stack height shall be provided for proper dispersion of the air pollutant.</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>12505 Kg/day</td></tr>
<tr><td>7.2</td><td>Whether dedicated area has been earmarked for the management of the dry and wet component of the solid waste or not?</td><td>Yes, location has been earmarked as MSW in the conceptual plan</td></tr>
<tr><td>7.2</td><td>Details of management and disposal of solid waste (Mechanical Composter/Compost pits)</td><td>Two no. of Mechanical Composter of capacity 300 Kg/hour each shall be installed.</td></tr>
</table>

<table>
<tr><td>7.3</td><td>Details of management of Hazardous Waste.</td><td>Used oil@200-500 lt/annum shall be generated and the same shall be sold out to authorized recyclers/vendors.</td></tr>
<tr><td>8</td><td>Energy Saving & EMP</td><td></td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>24000 KW</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>Saving measures:
• Solar Light 20 No = 30 KWHD
• Common area (700) lights replaced with LED= 378 KWHD
Total Energy saved/day 30+378 = 408 KWHD</td></tr>
<tr><td>8.3</td><td>Details of activities under Environment Management Plan:</td><td>During construction phase General Manager, Project will be responsible for implementation of the EMP and during operation phase Director shall be responsible for implementation of EMP.
The details of the activities to be undertaken under the rubric of the EMP is as under:
<table>
<tr><th>Sr. no</th><th>Description</th><th>Capital Cost (Rs. in Lacs)</th><th>Recurring cost (Rs. in Lacs)</th></tr>
<tr><td colspan="4">Construction Phase</td></tr>
<tr><td>1.</td><td>Medical Cum First Aid</td><td>1.50</td><td>1.5</td></tr>
<tr><td>2.</td><td>Toilets for Sanitation System</td><td>8.0</td><td>3.0</td></tr>
<tr><td>3.</td><td>Wind breaking curtains</td><td>15.0</td><td>4.0</td></tr>
<tr><td>4.</td><td>Sprinklers for suppression of dust</td><td>3.0</td><td>15.0</td></tr>
<tr><td>5.</td><td>Sewage Treatment Plant</td><td>850.0</td><td>--</td></tr>
<tr><td>6.</td><td>Solid Waste Segregation & Disposal</td><td>20.0</td><td>--</td></tr>
<tr><td>7.</td><td>Green Belt including grass coverage</td><td>80.0</td><td>--</td></tr>
<tr><td>8.</td><td>RWHP</td><td>35.0</td><td>--</td></tr>
<tr><td>9.</td><td>Ambient Air Monitoring (Every Month)</td><td>--</td><td>3.0</td></tr>
<tr><td>10.</td><td>Drinking Water (Every Month)</td><td>--</td><td>3.0</td></tr>
<tr><td>11.</td><td>Noise Level Monitoring (Every Month)</td><td>--</td><td>1.0</td></tr>
<tr><td></td><td>Total</td><td>1012.5</td><td>30.5</td></tr>
<tr><td colspan="4">Operation Phase</td></tr>
<tr><td>1.</td><td>Sewage Treatment Plant</td><td>--</td><td>12.0</td></tr>
<tr><td>2.</td><td>Solid Waste segregation & Disposal</td><td>--</td><td>25.0</td></tr>
</table></td></tr>
</table>

		3.	Green Belt including grass coverage	--	30.0
		4.	RWHP	--	4.0
		5.	Ambient Air Monitoring (Every 3 Months)	--	2.0
		6.	Drinking Water (Every Month)	--	3.0
		7.	Noise Level Monitoring (Every 3 Months)	--	0.50
		8.	Treated Effluent Monitoring (6 Months)	--	0.50
		Total		**--**	**77**

During meeting, the Committee perused the status report furnished by Punjab Pollution Control Board wherein it has been mentioned that the Air polluting industry i.e M/s Rainbow Environments Pvt. Ltd., Balyali, Mohali is located adjoining to the proposed site of the expansion part (Tower No. C3A & C3B). Therefore, the site of the project is not conforming to the siting guidelines laid down by the Govt. of Punjab, Department of Science and Technology and Environment vide order dated 25/07/2008 as amended on 30/10/2009.

In this regard, the Project Proponent apprised the Committee that the proposed land area of the project is 36.21 acres out of which permission for Change of Land Use for total land area of 25 acres (101175 Sqm) has been granted by Senior Town Planner, Department of Town & Country Planning, Punjab vide memo no. 1369-STP (S)/55-11 (GR) dated 15.06.2018. Further, application has been submitted for obtaining CLU for remaining land area of 11.21 acres. He further informed that the site of project falls in sector 74A, SAS Nagar, which as per the Master Plan of SAS Nagar falls in residential zone. The Project Proponent submitted a copy of Master Plan of SAS Nagar indicating the location of the project site falls in the residential zone. The Committee asked the Project Proponent to either submit the permission for Change of Land Use for the additional land area of 11.21 acres or certificate for Land Use Classification of the additional land area of 11.21 acres from the District Town Planner, SAS Nagar for establishment of residential complex.

The Project Proponent informed the Committee that configuration of each building block proposed to be constructed is (Basement +Stilt + 25 floors). The Committee asked the Project Proponent as to whether she has obtained the structural stability certificate for the proposed project or not. The Project Proponent apprised the Committee that she has already obtained the said certificate which has been duly authenticated by Sh. Maqsud E Nazar, M-Tech Structures having registration no. as AM/089710/0. A copy of Structural Stability certificate has been taken on record by the Committee.

The Committee observed that the project aims to generate more than 12 Ton MSW per day including dry and wet waste as such a dedicated area is required to be provided for management of solid waste. The Project Proponent is required to submit the solid waste

management layout plan earmarking with dedicated area for carrying out solid waste management. The activities for SWM Management shall include installation of Mechanical Composter for the treatment of wet waste, sorting of dry waste and maturation & drying of the wet waste after composter.

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

1. The Project Proponent shall submit the permission for Change of Land Use for the additional land area of 11.21 acres or Certificate for Land Use Classification of the additional land area of 11.21 acres from the District Town Planner, SAS Nagar for establishment of residential complex.
2. The Project Proponent shall submit the detailed solid waste management plan for the collection, treatment and disposal of 12 ton of waste per day including wet waste, dry waste, inert waste, recyclable and non-recyclable waste. Further, it will mark the required dedicated space in the layout plan for the management of solid waste.
3. The Project Proponent shall submit the clear configuration as 1/2/3 BHK to be constructed instead of 1+1, 2+2, 3+3. Similarly, the No. of floors of SCOs needs to be clearly mentioned instead of B+G+2.
4. The Project Proponent shall submit the detailed rain water harvesting proposal by indicating no. of pits to be constructed for recharging of ground water.
5. The Project Proponent shall check the population estimated for No. of Shops.
6. The Project Proponent shall use water efficient fixtures and revise the water balance accordingly.
7. The Project Proponent shall submit the details of components of land area, built up area, No. of blocks, No. of Floors, No. of Units in each floor for the existing project for which the EC was granted and for the proposed expansion project.
8. The Project Proponent shall provide the reply for not conforming the siting guidelines laid down by Govt. of Punjab, Department of Science Technology & Environment vide order dated 25.07.2008 as amended on 30.10.2009.

Deliberations during 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Mrs. Rajni Mehra, CEO, M/s Vera Developers Private Limited.
(ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(iii) Sh. Deepak Gupta, Environmental Advisor of the Project Proponent.

The Project Proponent presented reply of the observations raised through Parivesh Portal as under:

Sr.no.	Observations	Reply
1	The Project Proponent shall submit the permission for Change of Land Use for the additional land area of 11.21 acres or Certificate for Land Use Classificationof the additional land area of 11.21 acres from the District Town Planner, SAS Nagar for establishment ofresidential complex.	Application for obtaining permission for Change of Land Use has been filed. Further, as per the Mater Plan of SAS Nagar, the site of the project falls in residential zone. But as the land use classification can't be authenticated by DTP or competent authority, the URL of the master plan with Khasra Numbers on it by PUDA is mentioned below. Further, the copy of the land area, wherein the project shall be established submitted. **(URL https://puda.punjab.gov.in/?q=revenue-master-plan**
2	The Project Proponent shall submit the detailed solid waste management plan for the collection, treatmentand disposal of 12 ton of waste per day including wet waste, dry waste, inert waste, recyclable and non- recyclable waste. Further, it will mark the required dedicated space in the layout plan for the management of solid waste.	1000 sq. yards of the land area shall be kept formanagement and disposal of the solid waste. The solid waste management layout plan by earmarking dedicated area for carrying out thecomposting and sorting of dry fraction of waste submitted. 2 No mechanical composter of capacity 250 Kg per/hr shall be installed to convert the wet component of solid waste to compost andthereafter the said compost shall be utilized inthe plantation area. The dry fraction of the waste shall be segregated into different fractions including paper, plastic, metal, glass, rags and inert. All these fractions of dry waste shall be stored in partition under shed area. The recyclable component of dry fraction shall be given to

		the authorized recyclers and inert waste shallbe sent to sanitary landfill site.
3	The Project Proponent shall submit the clear configuration as 1/2/3 BHK to be constructed instead of 1+1, 2+2, 3+3. Similarly, the No. of floors of SCOs needs to be clearly mentioned instead of B+G+2.	The details pertaining to the configuration has been rectified and elaborated as desired in the conceptual plan. A copy of the corrected conceptual plan submitted. As per the revised conceptual plan, the Project Proponent has proposed to construct 2100 number of dwelling units under Pocket-A of type 3 BHK & 2 BHK, 1100 number of dwelling units under Pocket-B as 2 BHK & 1 BHK and 3000 number of dwelling units under Pocket-C as 2 BHK & 1 BHK. Further, the total number of 105 SCOs shall be constructed on the pattern of (Basement + Ground + 2).
4	The Project Proponent shall submit the detailed rain water harvesting proposal by indicating no. of pits to be constructed for recharging of ground water.	40 rain water harvesting each having volume of 56 KL shall be constructed for collecting the rain water and recharging the groundwater. The schematic diagram of the rainwater harvesting pit to be constructed submitted**.**
5	The Project Proponent shall check the populationestimated for No. of Shops.	There will be total 105 SCO/shops which shall be constructed on the pattern of G+2 as such the population has been considered for 5 person per shop. The total population shall be 525 for shops.
6	The Project Proponent shall use water efficient fixtures and revise the water balance accordingly.	The efficient fixtures shall be provided and revised water balance submitted. As per the revised water balance, the total water demand of the project shall be 2690 KLD out of which fresh water demand of 2039 KLD shall be met through ground water and remaining 651 KLD shall be met through recycling. The wastewater generation shall be 2152 KLD which shall be treated in the STP. Out of 2152 KLD of treated wastewater, in summer season 209 KLD shall be utilized in the green area of 38011 sqm, 651 KLD shall be utilized for flushing purpose and remaining 1292 KLD shall be discharge into sewer. Whereas in Winter season, 68 KLD shall be utilized in the green area 651 KLD

<table>
<tr><td></td><td></td><td>shall be utilized for flushing purpose and remaining 1433 KLD shall be discharge into sewer and in rainy season 19 KLD shall be utilized in the green area, 651 KLD shall be utilized for flushing purpose and remaining 1482 KLD shall be discharge into sewer.</td></tr>
<tr><td>7</td><td>The Project Proponent shall submit the details of components of land area, built up area, No. of blocks, No. of Floors, No. of Units in each floor for the existing project for which the EC was granted and for the proposed expansion project.</td><td>The details of the land area, built up area of the various components to be constructed submitted, which are as under:
<table>
<tr><th>Description</th><th>As per previous EC</th><th>As per revised proposal</th></tr>
<tr><td>Total land area in Sqm</td><td>101208</td><td>146583</td></tr>
<tr><td>Built up area in sqm</td><td>117940</td><td>579799.51</td></tr>
<tr><td>No. of Blocks</td><td>9</td><td>33 and 1 for shop</td></tr>
<tr><td>No. of floors</td><td>25</td><td>25</td></tr>
<tr><td>No. of Flats</td><td>1348</td><td>6200</td></tr>
<tr><td>No. of Shops</td><td>0</td><td>35 (G+2)=105</td></tr>
</table></td></tr>
<tr><td>8</td><td>The Project Proponent shall provide the reply for not conforming the siting guidelines laid down by Govt. of Punjab, Department of Science Technology & Environment vide order dated 25.07.2008 as amended on 30.10.2009.</td><td>The site of the project falls in residential zone as such the project is permissible for the establishment of the residential housing project. Further, the application for obtaining permission for change of land use submitted and same is likely to be issued shortly.</td></tr>
</table>

During meeting, the Committee asked the Project Proponent to submit the latest status of the permission for Change of Land Use for the additional land area of of 11.21 acres. The Project Proponent apprised the Committee that the application has been filed with the Competent Authority and the permission is still awaited. The Project Proponent presented the notified Master Plan of SAS Nagar and shown that the site of the proposed housing project falls in the residential zone as per Master Plan, SAS Nagar.

The Committee observed that as per the latest construction status report submitted by PPCB vide letter no. 1945 dated 22.03.2022, the site of the project will just touch the boundary of the site of Common Bio-Medical Waste Treatment facility (CBMWTF) namely M/s Rainbow Environments Private Limited, Balyali, Mohali. The Committee asked the Project Proponent to provide 15 m width green belt towards the CBMWTF and submit the approved layout plan showing the location of the 15m width green belt towards boundary of Village Balyali and the Group Housing Project. In this regard, the Project Proponent has submitted the approved layout plan of Group Housing

Project by earmarking the green belt of 15m towards CBMWTF (M/s Rainbow Environments) and boundary of Village Balyali. The Committee took a copy of the approved layout plan on record.

After detailed deliberations, SEAC decided to award **'Silver Grading'** to the project proposal and to forward the application of the project proponent to SEIAA with the recommendation to grant Environmental Clearance for the expansion of a Housing project namely "Lok Awas" located at Sectors 74A, SAS Nagar, Punjab, subject to the following conditions and special condition as under:

I. Special Condition:

1. The Project Proponent shall obtain Change of Land Use from the Competent Authority for the additional land area of 11.21 acres before starting construction activity at the said piece of land

II. 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.

III. 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

IV. 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 water requirement for the project shall be 4209 KLD, out of which 2814 KLD shall be met through own tube well. Total freshwater use shall not exceed the proposed requirement as provided in the project details and other relevant details as under:

Sr. No.	Seasons	Total water Requirement	Total wastewater generated	Treated wastewater	Flushing water requirement	Green area requirement	Into sewer
1.	Summer	4209	3368	3368	1395	264	1709
2.	Winter	4209	3368	3368	1395	86	1887
3.	Rainy	4209	3368	3368	1395	24	1949

b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes.

c) During the construction phase, the project proponent shall ensure that the wastewater generated from the labour quarters/toilets shall be treated and disposed of in an environment-friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately designed septic tanks for the treatment of such wastewater and treated effluents shall be utilized for green area/plantation.

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

vi) The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA along with six-monthly monitoring reports.

vii) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration, and the balance of water

available. This should be specified separately for groundwater and surface water sources, ensuring that there is no impact on other users.

viii) At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape, etc. would be considered as pervious surface.

ix) Dual pipe plumbing shall be installed for supplying fresh water for drinking, cooking and bathing, etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, air conditioning etc.

x) Installation of R.O. plants in the project will be discouraged in order to reduce water wastage in form of RO reject. However, in case the requirement of installing RO plant is unavoidable, the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component or in a common place in the project premises.

xi) The project proponent shall also adopt the new/innovative technologies like low water discharging taps (faucet with aerators) /urinals with electronic sensor system /waterless urinals/twin flush cisterns/ sensor-based alarm system for overhead water storage tanks and make them a part of the environmental management plans/building plans so as to reduce the water consumption/groundwater abstraction.

xii) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/other purposes etc. and will colour code the different pipelines carrying water/wastewater from different sources / treated wastewater as follows:

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

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

xiv) The CGWA provisions on rainwater harvesting should be followed. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of the plot area and a storage capacity of a minimum of one day of the total freshwater requirement shall be provided. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. As per the proposal submitted by the project proponent, 40 no. recharging pits will be provided for groundwater recharging as per the CGWB norms. The groundwater shall not be withdrawn without approval from the Competent Authority.

xv) All recharge should be limited to shallow aquifers.

xvi) No groundwater shall be used during the construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and should be available at the site.

xvii) Any groundwater dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any groundwater abstraction or dewatering.

xviii) The quantity of freshwater usage, water recycling, and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC, and SEIAA along with six-monthly Monitoring reports.

xix) Sewage shall be treated in the STP with tertiary treatment by providing ultra-filtration Technology. STP shall be installed in a phased manner viz a viz in the module system designed in such a way so as to efficiently treat the wastewater with an increase in its quantity due to rise in occupancy. The treated effluent from STP shall be recycled/reused for flushing and gardening. No treated water shall be disposed of into the municipal stormwater drain.

xx) No sewage or untreated effluent would be discharged through stormwater drains. Onsite sewage treatment with a capacity to treat 100% wastewater will be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent

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

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

xxii) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed of as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

V. 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.

VI. 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.

VII. 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) 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.

iii) 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.

iv) Organic waste compost/ Vermiculture pit/ Organic Waste Converter/Mechanical Composter within the premises must be installed for treatment and disposal of the solid waste.

v) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie-up must be done with the authorized recyclers.

vi) 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.

vii) 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.

viii) 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.

ix) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.

x) 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.

VIII. 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 1850 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.

IX. 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.

X. 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.

XI. 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. The Environmental Management Plan (EMP) of the proposed project as per the details given in Table below:

Sr. no	Description	Capital Cost (Rs. in Lacs)	Recurring cost (Rs. in Lacs)
Construction Phase			
1.	Medical Cum First Aid	1.50	1.5
2.	Toilets for Sanitation System	8.0	3.0
3.	Wind breaking curtains	15.0	4.0
4.	Sprinklers for suppression of dust	3.0	15.0
5.	Sewage Treatment Plant	850.0	--
6.	Solid Waste Segregation & Disposal	20.0	--
7.	Green Belt including grass coverage	80.0	--
8.	RWHP	35.0	--
9.	Ambient Air Monitoring (Every Month)	--	3.0
10.	Drinking Water (Every Month)	--	3.0
11.	Noise Level Monitoring (Every Month)	--	1.0
	Total	**1012.5**	**30.5**
Operation Phase			
1.	Sewage Treatment Plant	--	12.0
2.	Solid Waste segregation & Disposal	--	25.0
3.	Green Belt including grass coverage	--	30.0
4.	RWHP	--	4.0
5.	Ambient Air Monitoring (Every 3 Months)	--	2.0
6.	Drinking Water (Every Month)	--	3.0
7.	Noise Level Monitoring (Every 3 Months)	--	0.50
8.	Treated Effluent Monitoring (6 Months)	--	0.50
Total		**--**	**77**

XII. Validity

This environmental clearance will be valid for a period of 10 (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.

XIII. 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.

XIV. 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 Bio-Medical wastes shall be managed in accordance with the Bio-Medical Waste Management Rules 2016 as amended from time to time.

v) 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.

vi) 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.

vii) This Environmental Clearance is liable to be revoked without any further notice to the Project Proponent in case of failure to comply with condition (vi) above.

Item no. 221.04: Application for Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of residential housing Project namely "AGI Sky Villas" in the revenue estate of Village Dad, Pakhowal Road, Tehsil & District Ludhiana, (Punjab) by M/s AGI Infra Limited, (Proposal No. SIA/PB/MIS/270773/2022).

The project proponent has submitted an application for obtaining Environmental Clearance under EIA Notification dated 14.09.2006 for the establishment of residential housing Project namely "AGI Sky Villas" in the revenue estate of Village Dad, Pakhowal Road, Tehsil & District Ludhiana, (Punjab). The total land area of the project is 49800.2 sqm having built-up area of 1,48,406.26 Sqm. The Project is covered under Activity 8(a) & Category 'B2' as per EIA notification-2006.

The project proponent submitted the Form I, 1A and other additional documents along with processing fee amounting to Rs. 2,96,812/- vide RTGS No. PUNBR52022042611940355 dated 26.04.2022, as verified by the supporting staff SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

Punjab Pollution Control Board vide letter no. 2847 dated 13.05.2022 has sent the latest construction status report with details as under:

"In regard to above, it is intimated that the site of the subject citied project was visited by officer of the Board on 12.05.2022 and it was observed that the front side of the project is opposite another construction project i.e. Centra Green and the project is surrounded by various commercial and residential establishment on the other 03 sides.

There were 02 existing marriage palaces/ banquets hall i.e. M/s Riviera Resort and Arcadian Villa in the land, where the project is proposed to be developed. The Riviera Resort has obtained consent to operate under the Water Act, 1974 and Air Act, 1974, upto 30.09.2022 and Acadian villa has also obtained consent to operate under the Water Act, 1974 & under the Air Act, 1981, upto 30.09.2022. The project proponent has demolished the building of Arcadian villa and demolition work of Rivirea Resort is underway. The project proponent has not started any new construction activity in the proposed site and is currently carrying out demolition of the existing structure.

There is no MAH industry within a radius of 250 m from the boundary of the proposed site of the project. It was observed that there is no industry such as rice sheller/ saila plant/brick kiln/stone crushing / screening cum washing unit/hot mix plant/ cement unit etc. & drain., river and eco-sensitive structure within a radius of 500 m. There is no air polluting industry within a radius of 100 m from the boundary of the project.

The project proponent has obtained CLU from chief Administrator GLADA, Ludhiana issued vide memo no. 321 dated 16.03.2022, for Residential Purpose (Group Hosuing) for land measuring 12.306 acres at village Dad, Handfast No. 279, Tehsil & District Ludhiana. Therefore, the site of the project is conforming to the siting guidelines and 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 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Sh. Balwinder Singh Sandha, Chief Financial Officer, M/s AGI Infra Limited.
(ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(iii) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of Project Proponent to present the salient features of the project. Thereafter, Environmental Consultant presented the case as under: -

<table>
<tr><th>Sr. No.</th><th>Description</th><th>Details</th></tr>
<tr><td>1</td><td colspan="2">Basic Details</td></tr>
<tr><td>1.1</td><td>Name of Project & Project Proponent:</td><td>Residential Project "AGI Sky Villas" by M/s AGI Infra Private Limited</td></tr>
<tr><td>1.2</td><td>Proposal:</td><td>SIA/PB/MIS/270773/2022</td></tr>
<tr><td>1.3</td><td>Location of Industry:</td><td>Village- Dad, Pakhowal road, Tehsil & District- Ludhiana, Punjab</td></tr>
<tr><td>1.4</td><td>Details of Land area & Built up area:</td><td>Total Plot area – 49800 sqm (12.306 acre)
Built up area- 1,48,406 sqm</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. 197.5 Crores
<table>
<tr><th>Sr. No.</th><th>Description</th><th>Total Cost in Crore</th></tr>
<tr><td>1.</td><td>Land</td><td>4.25</td></tr>
<tr><td>2.</td><td>Building and Plant & Machinery</td><td>148</td></tr>
<tr><td>3.</td><td>Approvals</td><td>9.20</td></tr>
<tr><td>4.</td><td>Others</td><td>10.30</td></tr>
<tr><td colspan="2">Total Cost</td><td>197.50 Crore</td></tr>
</table></td></tr>
<tr><td>2.</td><td colspan="2">Site Suitability Characteristics</td></tr>
</table>

2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	Requisite permissions for the establishment of residential housing project has been obtained from the Competent Authority. The details are mentioned at 2.2.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	1. A copy of permission for Change of Land Use for total land area of 12.306 acres (49802.38 sq.m) in the name of M/s AGI Infra Limited issued by Greater Ludhiana Area Development Authority, Ludhiana, Punjab vide Memo no.- 321 dated 16.03.2022 submitted. 2. A copy of layout plan of the scheme area of 12.306 acres approved by Senior Town Planner, Ludhiana vide letter no. 559.STP(L)/BA1 dated 24.03.2022 for the construction for 448 dwelling units submitted. 3. A copy of licence issued by GLADA vide no. 02/2022 dated 30.03.2022 granted under Punjab Apartment & Property Regulation Act, 1995 to M/s AGI Infra Limited through its Managing Director Sh. Sukhdev Singh for developing land as group housing project "AGI Sky Villas", Village Dad, Tehsil & District Ludhiana for the total land area of 12.306 acre submitted.
3	**Forest, Wildlife and Green Area**	
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No, a self-declaration to the effect that no land covered under the Forest Conservation Act 1980 is involved in the project submitted.
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, a self-declaration to the effect that the project does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900 submitted.
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife sanctuary is involved in the vicinity or study area of the project site. Thus, the industry does not require clearance under the provisions of Wildlife Protection Act 1972. A self-declaration in this regard submitted.
3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. *(Specify the distance from the nearest Eco sensitive zone)*	The project is not located in any notified eco-sensitive zone.

3.6	Green area requirement and proposed No. of trees:	Total green area: 12526 sqm Proposed number of trees- 624

4. Configuration & Population

4.1 **Proposal & Configuration**

Tower wise detail of the number of Flats is given below:

Sr. No.	Name of Tower	No. of Flats	Configuration	No. of Floors	Total Covered area in sqm
1.	Tower-A	30	5 BHK	15	122954.44
2.	Tower-B	180	3 BHK	15	354021.00
3.	Tower-C				
4.	Tower-D	84	4 BHK	14	232477.08
5.	Tower-E				
6.	Tower-F	28	4 BHK	14	75097.85
7.	Tower-G	126	4 BHK	14	346054.14
8.	Tower-H				
9.	Tower-I				
Total		**448 Flats**			

Area & Built up area details:

SR. NO.	PARTICULARS	AREA (m^2)
1	Net Plot Area	49800.2
	TOTAL BUILT UP AREA DETAILS	**m^2**
1	**FAR Area**	
	No. of Flats 30 (5BHK)	11423
	No. of Flats 238 (4BHK)	60724
	No. of Flats 180 (3BHK)	32889
	School	812
	Community Centre	775
2	**Non-FAR Area**	
	Basement Area	17179
	Balconies/Terrace Area	24604
Total		**1,48,406m^2**

4.2 Population details

Sr. No.	Description	Number of units	Population	Water requirement (in Ltrs)	Water requirement in KLD
1	5 BHK-30 4 BHK-238 3 BHK-180	448 @ 5 persons/flat	2240 persons	86 lpcd	193 KLD
2	Floating Population	--	400 persons	15 lpcd	06 KLD
3	School/Community Centre	--	500 Persons	45 lpcd	22 KLD

	4	Maintenance Staff	--	50 Persons	45 lpcd	02 KLD
		Total	--	**3190 Persons**	--	**223 KLD**

5	**Water**	
5.1	Total fresh water requirement:	Fresh water demand- 176 KLD
5.2	Source:	Tubewell
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) *Details thereof*	Acknowledgement of the application submitted to PWRDA for abstraction of ground water @ 176 KLD submitted.
5.4	Total water requirement for domestic purpose:	223 KLD
5.4.1	*Total wastewater generation:*	178 KLD
5.4.2	*Treatment methodology for domestic wastewater: (STP capacity, technology & components)*	STP of capacity 250 KLD based on MBBR Technology shall be installed for the treatment of the domestic effluent.
5.5	Details of utilization of treated wastewater into green area in summer, winter and rainy season:	Treated water will be partly used for tree plantation, landscaping, parks & flushing etc within the project premises Summer-69 KLD Winter-23 KLD Rainy- 6 KLD
5.6	Proposal of excess treated wastewater.	Summer-62 KLD Winter-108 KLD Rainy- 125 KLD A copy of letter issued by GLADA vide no. 269 dated 12.05.2022 submitted, wherein it has been mentioned that the Project Proponent is required to obtain NOC from MC Ludhiana and other concerned Departments before issuance of the permission of discharging treated waste water into sewer.
5.8	Cumulative Details:	

Sr. No.	**Total water Requirement**	**Total wastewater generated**	**Treated wastewater**	**Flushing water requirement**	**Green area requirement**	**Into sewer**
1	223 KLD	178 KLD	178 KLD	47 KLD	69 KLD	62 KLD

<table>
<tr><td>5.9</td><td>Rain water harvesting proposal:</td><td>9 No. pits to be provided.</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>DG Set capacity of 400 KVA shall be installed.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>DG Set shall be equipped with canopy and stack of adequate height to contain the particulate emissions.</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>1151 kg/day</td></tr>
<tr><td>7.2</td><td>Details of management and disposal of solid waste (Mechanical Composter/Compost pits)</td><td>The solid waste shall be segregated and treated through vermi-composting. Further, non-biodegradable waste will be segregated and stored into isolated place. The biodegradable waste shall be used as manure after treatment and the non-biodegradable waste shall be given to the authorized recycler.</td></tr>
<tr><td>7.5</td><td>Details of management of Hazardous Waste.</td><td>Used oil @ 500 ltr/annum shall be generated which shall be given to the authorized recycler.</td></tr>
<tr><td>8</td><td>Energy Saving & EMP</td><td></td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>1489 KW</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>• Saving on light points by using 30 W LED instead of 40 W tubes @ 25% = 150 KW
• By using solar energy for outer Lighting Savers @ 50% = 75 KW
Total Saving = 225 KW</td></tr>
<tr><td>8.3</td><td>Details of activities under Environment Management Plan:</td><td>Constructional Phase
<table>
<tr><th>SR. NO.</th><th>PARTICULARS</th><th>APPROX. CAPITAL COST (LAC)</th><th>APPROX. RECURRING COST (LAC)</th><th>ITEMS COVERED</th></tr>
<tr><td>1.</td><td>Medical Cum First Aid</td><td>1.0</td><td>0.5</td><td>First aid medical facility with first aid kit</td></tr>
<tr><td>2.</td><td>Toilets for workers</td><td>1.0</td><td>0.5</td><td>Toilets with septic tank</td></tr>
<tr><td>3.</td><td>Wind breaking curtains</td><td>4.0</td><td>0.5</td><td>Wind breaking walls at vulnerable areas</td></tr>
</table></td></tr>
</table>

4.	Sprinklers for suppression of dust	2.0	0.5	Sprinklers, Pipeline
Total Cost		**Rs 8.0**	**Rs 2.0**	

Operational Phase

SR. NO.	PARTICULARS	APPROX. CAPITAL COST (LAC)	APPROX. RECURRING COST (LAC)	ITEMS COVERED
1.	Sewage Treatment Plant	60.0	5.0	STP
2.	Solid Waste segregation & disposal	10.0	2.0	Colored Bins at appropriate Locations
3.	Green Belt including Lawns coverage	6.5	6.5 (for 3 years)	Plantation and landscaping
Total Cost		**Rs 76.5**	**Rs 13.5**	

After detailed deliberations, SEAC decided to award **'Silver Grading'** to the project proposal and to forward the application of the project proponent to SEIAA with the recommendation to grant Environmental Clearance for the establishment of residential housing Project namely "AGI Sky Villas" in the revenue estate of Village Dad, Pakhowal Road, Tehsil & District Ludhiana, (Punjab) by M/s AGI Infra Limited, subject to the following conditions.

I. Special Condition:

1. The Project Proponent shall obtain NOC from MC Ludhiana and other concerned Departments before discharging of treated waste water into sewer, as stipulated by GLADA vide letter no. 269 dated 12.05.2022.

II. 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.

III. 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

IV. 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 domestic water requirement for the project shall be 223 KLD, out of which 176 KLD shall be met through own tube well. Total freshwater use shall not exceed the proposed requirement as provided in the project details and other relevant details as under:

Sr. No.	Total water Requirement	Total wastewater generated	Treated wastewater	Flushing water requirement	Green area requirement	Into sewer

1	223 KLD	178 KLD	178 KLD	47 KLD	69 KLD	62 KLD

b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes.

c) During the construction phase, the project proponent shall ensure that the wastewater generated from the labour quarters/toilets shall be treated and disposed of in an environment-friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately designed septic tanks for the treatment of such wastewater and treated effluents shall be utilized for green area/plantation.

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

vi) The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA along with six-monthly monitoring reports.

vii) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration, and the balance of water available. This should be specified separately for groundwater and surface water sources, ensuring that there is no impact on other users.

viii) At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape, etc. would be considered as pervious surface.

ix) Dual pipe plumbing shall be installed for supplying fresh water for drinking, cooking and bathing, etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, air conditioning etc.

x) Installation of R.O. plants in the project will be discouraged in order to reduce water wastage in form of RO reject. However, in case the requirement of installing RO plant is unavoidable, the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component or in a common place in the project premises.

xi) The project proponent shall also adopt the new/innovative technologies like low water discharging taps (faucet with aerators) /urinals with electronic sensor system /waterless urinals/twin flush cisterns/ sensor-based alarm system for overhead water storage tanks

and make them a part of the environmental management plans/building plans so as to reduce the water consumption/groundwater abstraction.

xii) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/other purposes etc. and will colour code the different pipelines carrying water/wastewater from different sources / treated wastewater as follows:

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

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

xiv) The CGWA provisions on rainwater harvesting should be followed. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of the plot area and a storage capacity of a minimum of one day of the total freshwater requirement shall be provided. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. As per the proposal submitted by the project proponent, 09 no. recharging pits will be provided for groundwater recharging as per the CGWB norms. The groundwater shall not be withdrawn without approval from the Competent Authority.

xv) All recharge should be limited to shallow aquifers.

xvi) No groundwater shall be used during the construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and should be available at the site.

xvii) Any groundwater dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any groundwater abstraction or dewatering.

xviii) The quantity of freshwater usage, water recycling, and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC, and SEIAA along with six-monthly Monitoring reports.

xix) Sewage shall be treated in the STP with tertiary treatment by providing ultra-filtration Technology. STP shall be installed in a phased manner viz a viz in the module system designed in such a way so as to efficiently treat the wastewater with an increase in its quantity due to rise in occupancy. The treated effluent from STP shall be recycled/reused for flushing and gardening. No treated water shall be disposed of into the municipal stormwater drain.

xx) No sewage or untreated effluent would be discharged through stormwater drains. Onsite sewage treatment with a capacity to treat 100% wastewater will be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry / SEIAA before the project is commissioned for operation. Treated wastewater shall be reused on-site for landscape, flushing, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by the Ministry of Environment, Forest, and Climate Change. Natural treatment systems shall be promoted.

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

xxii) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed of as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

V. 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.

VI. 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.

VII. 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) 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.

iii) 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.

iv) Organic waste compost/ Vermiculture pit/ Organic Waste Converter/Mechanical Composter within the premises must be installed for treatment and disposal of the solid waste.

v) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie-up must be done with the authorized recyclers.

vi) 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.

vii) 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.

viii) 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.

ix) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.

x) 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.

VIII. 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 624 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.

IX. 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.

X. 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.

XI. 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. The Environmental Management Plan (EMP) of the proposed project as per the details given in Table below:

Constructional Phase

SR. NO.	PARTICULARS	APPROX. CAPITAL COST (LAC)	APPROX. RECURRING COST (LAC)	ITEMS COVERED
1.	Medical Cum First Aid	1.0	0.5	First aid medical facility with first aid kit
2.	Toilets for workers	1.0	0.5	Toilets with septic tank
3.	Wind breaking curtains	4.0	0.5	Wind breaking walls at vulnerable areas
4.	Sprinklers for suppression of dust	2.0	0.5	Sprinklers, Pipeline
Total Cost		**Rs 8.0**	**Rs 2.0**	

Operational Phase

SR. NO.	PARTICULARS	APPROX. CAPITAL COST (LAC)	APPROX. RECURRING COST (LAC)	ITEMS COVERED
1.	Sewage Treatment Plant	60.0	5.0	STP
2.	Solid Waste segregation & disposal	10.0	2.0	Colored Bins at appropriate Locations
3.	Green Belt including Lawns coverage	6.5	6.5 (for 3 years)	Plantation and landscaping
Total Cost		**Rs 76.5**	**Rs 13.5**	

XII. Validity

i. This environmental clearance will be valid for a period of 10 (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.

XIII. 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.

XIV. 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 Bio-Medical wastes shall be managed in accordance with the Bio-Medical Waste Management Rules 2016 as amended from time to time.

v) 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.

vi) 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.

vii) This Environmental Clearance is liable to be revoked without any further notice to the Project Proponent in case of failure to comply with condition (vi) above.

Item No. 221.05: Application for issuance of TORs for proposed steel Manufacturing Unit located at G.T Road, Sirhind side, Mandi Gobindarh, Tehsil Amloh, District Fatehgarh Sahib, Punjab by M/s Kuber Casting Private Limited. (Proposal No. SIA/PB/IND/76458/2022).

The industry namely M/s Kuber Casting Private Limited is engaged in the manufacturing of steel ingots/billets, Angles, Channels, Rounds, Square, TMT bars, Flats & Patra @ 29400 TPA. The industry was granted Consent to Operate under the provisions of the Water Act 1974 & Air Act 1981 for the manufacturing of 84 MTD of steel ingots, which is valid up to 04.05.2022.

The industry has proposed for carrying out expansion by increase in the manufacturing of steel ingots/billets, Angles, Channels, Rounds, Square, TMT bars, Flats & Patra from 29,400 TPA to 84,000 TPA. Since, the production capacity of the industry exceeds 30,000 TPA, as such the industry attracts the provisions of the activity 3(a) of the schedule appended with the EIA notification dated 14.09.2006.

The industry has applied for issuance of TORs for manufacturing of 84000 TPA of steel ingots/billets, Angles, Channels, Rounds, Square, TMT bars, Flats & Patra. The industry has proposed to manufacture the aforementioned products by replacing the existing Induction Furnace of 7 TPH capacity with new induction Furnace of capacity 20 TPH, LRF of 20 TPH Concast.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

The project proponent submitted the Form I, prefeasibility report and other additional documents through online portal. The cost of the project is Rs. 13.06 Cr. The Project Proponent has deposited Rs.50,000/- (25% of the total fee i.e., Rs. 150,000/-) vide NEFT No. SBIN222118100947 dated 28.04.2022 as checked & verified by the supporting staff of SEIAA.

Deliberations during 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Sh. Jasbir Singh, General Manager, M/s Kuber Casting.
(ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(iii) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of Project Proponent to present the salient features of the project. Thereafter, Environmental Consultant presented the case as under: -

Sr. No.	Description	Details
1.	Online Proposal No.	**SIA/PB/IND/76458/2022**
2.	Name and Location of the project	M/s Kuber Casting Pvt. Ltd. located at GT road, Sirhind side, Backside Modern Steel, Mandi Gobindgarh Tehsil- Amloh, District Fatehgarh Sahib, Punjab.
3.	Nature of project (Fresh EC/EC for Expansion/New)	Fresh (TOR)
4.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time.)	(a) B1 (b) Metallurgical Industries (ferrous & nonferrous) (8), Schedule 3(a) as per EIA notification-2006.
5.	Whether project falls within 5km from the boundary of critically polluted area (Yes/No)	No critically polluted area falls within 5km of the boundary of the project.
6.	Undertaking to effect that project is neither located near to PLPA area nor fall in the PLPA area	No, a self-declaration to the effect that the project does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900 submitted.
7.	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No, a self-declaration to the effect that no land covered under the Forest Conservation Act 1980 is involved in the project submitted.
8.	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife sanctuary is involved in the vicinity or study area of the project site. Thus, the industry does not require clearance under the provisions of Wildlife Protection Act 1972. A self-declaration in this regard submitted.
9.	Whether the industry falls within the influence of Eco-Sensitive Zone or not. *(Specify the distance from the nearest Eco sensitive zone)*	The project is not located in any notified eco-sensitive zone.
10.	Classification/Land use pattern as per Master Plan	The industry falls in the industrial zone as per the Master Plan of Mandi Gobindgarh.
11.	Manpower (Existing & After expansion)	Existing - 80 Proposed – 40 Total- 120

12. **Project Area Details:**

S. No.	Details	Existing Land	Proposed Additional Land	Total land after Expansion
1.	Plot Area (in sqm)	15631 sqm	Nil	15631 sqm

13. **Raw Material requirement as per following format:**

S. No.	Raw Material	Existing (TPA)	Proposed (TPA)	After Expansion (TPA)
1.	MS Scrap, CI, Sponge Iron Ferro Alloys	31,000	57,500	88,500

14. Production Capacity as per following format:

S. No.	Product name	Existing (TPA)	Proposed (TPA)	After Expansion (TPA)
1.	Steel Ingots/billets, Angles, Channels, Rounds, Square, TMT Bars, Flats, Patra	29,400 (Steel ingots)	54,600	84,000

15. **Details of major productive machinery/plant**

S. No.	Particulars	Existing	Proposed	After Expansion
1.	Induction Furnace, rolling mill	1X7TPH (to be replaced)	1X20 TPH	1X20 TPH
2.	Laddle refining Furnace (LRF)	Nil	1X20 TPH	1X20 TPH
3.	Concast	Nil	01 No.	01 No.

16. **Water Requirements & its source:**

S. No.	Description	Existing water demand (KLD)	Proposed water demand (KLD)	Total water demand (KLD)
1.	Domestic water demand	3.6 KLD	2.0 KLD	5.6 KLD
2.	Cooling (makeup water)	10.0 KLD	30.0 KLD	40.0 KLD
Total		**13.6 KLD**	**32.0 KLD**	**45.6 KLD**

17. **Details of Effluent**

Sr. No.	Details	Existing Quantity (KLD)	Expected after expansion (KLD)	Details of existing & proposed Effluent Control Device
i)	Industrial Effluent	Nil	Nil	---
ii)	Domestic Effluent	2.8	4.5	Will be treated in STP of 10KLD and Treated water will be reused in plantation.

18. **Details of Emissions (After expansion)**

Sr. No.	Source	Capacity (TPH)	Chimney Height (m)	Details of existing & proposed Air Pollution Control Device
i)	Induction Furnace	1X20 TPH,	30	Side Suction Hood, Spark Arrestor, Bag House, ID Fan (Offline cleaning pulsejet bag filter)

19. **Details of Hazardous waste and its disposal (After expansion)**

Sr. No.	Hazardous Waste	Category	Quantity (TPA) (After expansion)	Disposal arrangement
1.	Gas Cleaning Residue (APCD dust)- Bag filter	35.1	1.0	Sent to TSDF site/Madhav Alloys
2.	Used Oil (kl/annum)	5.1	0.04 kl/annum	Used as Lubricant within the industry/sent to authorized recyclers.

20. Solid waste generation and its disposal (After expansion)

Sr. No.	Solid Waste	Quantity (TPD) (After Expansion)	Disposal arrangement
(i)	Slag	9	Given to inter locking tiles manufacturing plant for final use

21.	Energy Requirements (After expansion)	10,000 KW

The Committee observed that the industry falls in the industrial zone as per the Master Plan of Mandi Gobindgarh. After detailed deliberations, SEAC decided to categorize the project under

Activity 3(a); B-1 with public consultation as required for the project. The Committee recommended the case to SEIAA to approve the Terms of Reference for proposed steel Manufacturing Unit located at G.T Road, Sirhind side, Mandi Gobindarh, Tehsil Amloh, District Fatehgarh Sahib, Punjab for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the following TORs:

STANDARD TERMS OF REFERENCE

I) <u>Executive Summary</u>

Report in about 8-10 pages incorporating the following:

i) Introduction of the Project and Promoter Company.

ii) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EC.

iii) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)

iv) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.

v) Measures for mitigating the impact on the environment and mode of discharge or disposal.

vi) Capital cost of the project, estimated time of completion

vii) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of is acquisition, nearby (in 2-3 km.) water body, population, within 10 km other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)

viii) Baseline environmental data - air quality, surface and groundwater quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.

ix) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk

x) Likely impact of the project on air, water, land, flora-fauna and nearby population

xi) Emergency preparedness plan in case of natural or in plant emergencies

xii) Issues raised during public hearing (if applicable) and response given

xiii) CSR/CER plan with proposed expenditure.

xiv) Occupational Health Measures

xv) Post Project monitoring plan

xvi) Synopsis of the project (Available on https://decc.punjab.gov.in/)

II) Introduction

i) Details of the EIA Consultant including NABET accreditation

ii) Information about the project proponent

iii) Importance and benefits of the project

III) Project Description

i) Cost of project and time of completion.

ii) Products with capacities for the proposed project.

iii) If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.

iv) List of raw materials required and their source along with mode of transportation.

v) Other chemicals and materials required with quantities and storage capacities.

vi) Details of Emission, effluents, hazardous waste generation and their management.

vii) Requirement of water (breakup for induction and rolling mill), power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).

viii) Process description along with major equipment and machineries, process flow sheet (quantitative) from raw material to products to be provided

ix) Hazard identification and details of proposed safety systems.

x) In case of Expansion/modernization proposals:

a) Status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.

b) In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA

Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

IV) Site Details

i) Location of the project site covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether other sites were considered. Copy of Master Plan indicating a land use pattern of the site is in conformity of proposals of Master Plan shall be attached with EIA report.

ii) A top sheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)

iii) Details w.r.t. option analysis for selection of site.

iv) Co-ordinates (lat-long) of all four corners of the site.

v) Google map-Earth downloaded of the project site

vi) Layout maps indicating existing unit as well as proposed unit indicating storage area of raw material, finished products, greenbelt area with marking of tree, Location of STP/ETP, Solid waste storage area, Parking space, Firefighting equipment layout, First aid room, Location of Tube wells, DG Sets & Transformers and any other utilities

vii) If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

viii) Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

ix) Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc. shall be included. (not required for industrial area)

x) A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.

xi) Geological features and Geo-hydrological status of the study area shall be included.

xii) Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of

Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xiii) Status of acquisition of land. lf acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xiv) R&R details in respect of land in line with state Government policy

V) <u>Forest and wildlife related issues (if applicable):</u>

i) Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (If applicable).

ii) Land use map based on High resolution satellite imagery (OPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).

iii) Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv) The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

v) Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.

vi) Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

vii) In case, no diversion of Forest land, Eco Sensitive area/ National park/Wild Life Sanctuary within 10 Km then the project proponent will submit the NOC from the concerned territorial / wildlife DFO's that no Forest/PLPA/Wildlife areas are involved, at the time of submission of EIA report

VI) <u>Environmental Status</u>

i) Determination of atmospheric inversion level at the project site and site specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii) AAQ data (except monsoon) at 8 locations for PM 10, PM2.5, S02, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre dominant wind direction, population zone and sensitive receptors including reserved forests.

iii) Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

iv) Surface water quality of nearby River (100m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF& CC guidelines.

v) Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF& CC.

vi) Groundwater monitoring at minimum at 8 locations shall be included.

vii) Noise levels monitoring at 8 locations within the study area.

viii) Soil Characteristic as per CPCB guidelines.

ix) Traffic feasibility / serviceability study for at least 5 days based on Indian Standard Codes. Further it shall also include the details of cross section of the road on which industry is located, vehicles movement w.r.t. the industry, traffic load of other vehicles on the road incorporating the haulage time for the vehicles for loading/unloading within the premises and parking requirement to avoid the traffic congestions on the link and adjoining roads. Traffic study shall be conducted considering the traffic of the industries located in the vicinity.

x) Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

xi) Socio-economic status of the study area.

xii) Baseline data should not be older than 3 years.

VII) <u>Impact Assessment and Environment Management Plan</u>

i) Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the model used and the input data used for modeling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii) Water Quality modelling.

iii) Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.

iv) A note on treatment, recycling and reuse of wastewater from different plant operations, extent for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under EPA Rules.

v) Details of stack emission and action plan for control of emissions to meet standards.

vi) Measures for fugitive emission control

vii) Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii) Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix) Action plan for the green belt development in 33 % area with not less than 1,500 trees per hectares giving details of species, width of plantation, planting schedule, post plantation maintenance plan for 3 years shall be included. The green belt shall be around the boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x) Action plan for rainwater harvesting measures at alternative sites shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the groundwater and also to use for the various activities to conserve freshwater and reduce the water requirement from other sources.

xi) Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

xii) Action plan for post-project environmental monitoring shall be submitted.

xiii) Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with the District Disaster Management Plan.

VIII) <u>Occupational health</u>

i) Details of existing Occupational & Safety Hazards. What are the exposure levels of above-mentioned hazards and whether they are within the Permissible Exposure Level (PEL)? If these are not within PEL, what measures the company has adopted to keep them within PEL so that the health of the workers can be preserved.

ii) Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre-designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analysed data of above-mentioned parameters as per age, sex, duration of exposure and department wise.

iii) Annual report of the health status of workers with special reference to Occupational Health and Safety.

iv) Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

IX) <u>Corporate Environment Policy</u>

i) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

ii) Does the Environment Policy prescribe for standard operating processes/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? If so, it may be detailed in the EIA.

iii) What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv) Does the company have a system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

v) Details regarding infrastructure facilities such as sanitation, fuel, restroom, etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during the operation phase.

X) <u>Enterprise Social Commitment (ESC)</u>

i) The project proponent shall propose activities in lieu of Corporate Environmental Responsibility (CER) in the Environmental Management Plan as per the provisions of OM dated 25.02.2021 issued by the MoEF&CC.

ii) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

iii) A tabular chart with index for points wise compliance of above TORs.

XI) STANDARDISED SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR INDUCTION/ ARC FURNACES/CUPOLA FURNACES 5TPH OR MORE

i) Details of proposed layout clearly demarcating existing & proposed features of the project within the plant.

ii) Total no. of furnaces & details including capacity of each furnace.

iii) Detail of the mechanical shredder to reduce the size of the raw material.

iv) Complete process flow diagram describing each unit, its processes, and operations, along with material and energy inputs and outputs (material and energy balance).

v) Details on the design and manufacturing process for all the units.

vi) Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other ·recycled materials.

vii) Details on the requirement of raw materials, its source, and storage at the plant.

viii) Details on the requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).

ix) Details on toxic metal content in the waste material and its composition and end-use (particularly of slag).

x) Details on toxic content (TCLP), composition and end-use of chrome slag. Details on the recovery of the Ferro chrome from the slag and its proper disposal.

XII) ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC AND SEIAA

i) Public consultation is required for the project as it is not located in a notified industrial park/estate.

ii) The project proponent shall submit complete proposal for the management of ash at the time of submission of EIA report for obtaining environmental clearance

iii) Submit proof of ownership of land (existing owner) such as copy of latest Jamabandi (not more than one month old) and credible document showing status of land acquisition w.r.t. project site (as prescribed in OM dated 07.10.2014 issued by MoEF)

iv) Submit dully filled prescribed field data sheets and analysis reports along with exact location of sampling / monitoring point marked on the layout map. Also submit the status of approvals of Laboratories.

v) Submit cost of the project duly certified by Chartered Engineer/ Approved valuer / Chartered Accountant. In the absence of above, the project proponent may submit self-certified detail of cost of the project mentioning the cost of Land, building, infrastructure and plant and machinery.

vi) Certificate from the concerned authority w.r.t the location of protected areas as notified under the Wildlife Protection Act, 1972 within 5 km radius from the boundary of the project site.

vii) Certificate from the Department of Town & Country Planning or concerned authorities to support the claim made by project proponent that the project site is located in the industrial zone as per the provisions of Master Plan of Town/City in the jurisdiction of which the project site is located or the project proponent shall submit the Change of land use of the project site for total land area.

viii) Compliance of 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.

ix) Necessary permissions from the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA)/concerned authority for the abstraction of groundwater for the existing requirements as well as for the expanded unit. In case of not allowing such permission by the concerned authority for the abstraction of additional groundwater for the expanded project, the project proponent shall propose alternative arrangements to meet out the additional water requirements. It shall be ensured that: -

   a) In the projects where groundwater is proposed as a water source, the project proponent shall apply to the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC) if applicable.

   b) Approval /permission of the CGWA/SGWA shall be obtained before drawing groundwater for the project activities.

c) In the absence of approval, submit a copy of acknowledgment along with a set of application filed to CGWA /Competent Authority for obtaining permission for the abstraction of groundwater

x) Minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

xi) STP for treatment of wastewater & re-utilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09/08/2018 issued by the MoEF&CC for such units.

xii) Reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.

xiii) In case of any acid pickling activity, the spent acid/effluents generated from such activities shall be utilized through authorized re-processors for converting the same into useful by-products like $FeSO_4$ etc. An agreement to this effect shall be made with the authorized agencies.

xiv) Adequate area to be reserved and marked on the layout plan for the green belt as per the conditions laid down by the MoEF&CC as per the Standard EC Conditions prescribed for Induction/ Electric Arc Furnace & Rolling Mills circulated vide OM dated 09/08/2018.

xv) Detailed study report along with calculation for reserving land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking incorporating the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.

xvi) Action plan for the compliance of standard operating procedures and up-gradation of suction and treatment arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.

xvii) Compliance of standard operating procedures and up-gradation of suction/treatment systems for the control of secondary emissions within the time frame prescribed by the State Pollution Control Board. Similar action is to be implemented in the proposed expansion project.

xviii) Whole of the vehicle movement area as well as the approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.

xix) The vehicles to be used for loading/unloading purposes shall not be parked along the roadside so as to avoid the traffic congestion and dedicated parking place to be provided for the same.

xx) Adopt green technologies to conserve the water and energy including shearing/cutting / bundling machines. Also, to provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.

xxi) Use of natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.

xxii) Submit compliance w.r.t. condition no.II [(i) & (iii)] subtitled as "Air Quality Monitoring & Preservation" regarding continuous emission monitoring system and continuous ambient air quality monitoring as prescribed in the Standard EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills issued by the MoEF&CC, New Delhi vide OM dated 09/08/2018.

xxiii) Examine and submit the proposal for: -

a) Recovery of iron from slag before disposing of it.

b) Identify the areas for utilization of slag in a scientific manner and explore its usage in cement/construction industry/manufacturing of pavers & tiles/road laying etc.

c) Recovery of precious metals like Zinc, lead and iron etc. from the APCD dust (Hazardous waste) through authorized re-processor.

xxiv) Air Pollution Control Arrangement details shall be provided as below:

Plant /Unit	Pollu tants	Qty gener ated	Method used to Control /specifications (attach Separate Sheet to furnish Details)	Number of units planned & Capacity	Budget	Estimated Post Control Qty Pollutant	
						Per Unit	Per day

xxv) Submit compliance regarding the installation of Pulse jet bag filter with offline cleaning technology as APCD with the proposed induction furnace.

xxvi) List the species with heavy foliage, broad leaves and wide canopy cover. The landscape planning should include plantation of native species. Water intensive and/or invasive species should not be used for landscaping.

xxvii) The project proponent shall collect the baseline data for three months (except monsoon season) as per MOEF&CC office memorandum dated 29.08.2017. For this, monitoring data of M/s Devbhoomi Casting Pvt. Ltd. falls within the buffer zone of the project collected during the period from 1st October 2021 to 31st December, 2021 may be utilized. Besides this, one-month additional study shall be undertaken at the project site from 15th January 2022 to 15th February, 2022.

XIII) <u>General Guidelines:</u>

(i) The EIA document shall be printed on both sides.

(ii) All documents shall be properly indexed, page numbered.

(iii) Period/date of data collection shall be clearly indicated.

(iv) The letter/application for environmental clearance shall quote the SEIAA file No. and also attach a copy of the letter.

(v) The copy of the letter received from SEIAA shall be also attached as an annexure to the final EIA-EMP Report.

(vi) The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.

Item No.221.06: Application for Environmental clearance under EIA notification dated 14.09.2006 for chemical unit for manufacturing of Formaldehyde @ 200 TPD & Resin/Glue @ 300 TPD by M/s Bansal & Bansal Organics located at Plot no.- A-5, Industrial Focal Point, Raikot, District Ludhiana, Punjab (Proposal No. SIA/PB/IND3/76857 /2022).

The industry has proposed to establish chemical manufacturing unit for carrying out the manufacturing of Formaldehyde @ 200 TPD & Resin/Glue @ 300 TPD in the name of M/s Bansal & Bansal Organics.

The industrial activity is covered under activity 5(f) and category B1 of the schedule appended with the EIA notification dated 14.09.2006. The General & Specific conditions are applicable to the said category and as per the application proposal the interstate boundary of Himachal Pradesh is located at a distance of 165 km from the project site. Further, the project does not lie in any of the protected area notified under Wildlife Protection Act 1972 and Eco-sensitive area within the purview of the project. The site of the industry is located at a distance of 19 km from critically polluted area of Ludhiana. As such, despite of applicability of General Conditions, the same does not satisfy.

The industry was issued Terms of Reference by MoEF&CC vide letter no. SEIAA/PB/IND/2022/ToR/02 dated 12.01.2022. Now, the industry has submitted EIA report after incorporating the compliance of Terms of Reference issued by the SEIAA.

The Cost of project is Rs. 6.30 Crores and the industry has already been deposited Rs. 15,750/- on dated 05.01.2022 and remaining processing fee of Rs. 47,250/- vide UTR No. N127221948507822 dated 07.05.2022. The adequacy of fee deposited by the Project Proponent has been checked and verified by the supporting staff of SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

Punjab Pollution Control Board vide letter no. 3105 dated 20.05.2022 has sent the latest construction status report with details as under:

"In regard to above, it is intimated that the site for the subject cited project was visited by officer of the Board on 18.05.2022 and it was observed that the plot is totally vacant and no boundary wall have been provided. The site falls in industrial Focal Point, Ralkot and is surrounded by other industrial establishments like M/s Vivachem Intermediates Pvt. Ltd., Industrial Focal Point, Raikot, Ludhiana, which is an API unit M/s Spreco Recycling (E-waste Recycler) etc. There is no drain river, eco-sensitive structure within the 500 meters radius of the site. It is further submitted that the industry has submitted copy of allotment letter issued by PSIEC, Chandigarh vide its letter no. 28326 dated 20.12.2021, mentioning that the proposed site measuring 5000 sq. yard falls under Industrial Focal Point, Raikot for 99 years on lease for manufacturing of

Formaldehyde, Urea Formaldehyde. The industry is being developed in Industrial Focal Point, Raikot and the site is suitable for establishment of such units."

Deliberations during 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Sh. Nishant Gupta, Manager, M/s Bansal & Bansal Organics.
(ii) Sh. Rajiv Garg, Environmental Consultant
(iii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(iv) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of Project Proponent to present the salient features of the project. Thereafter, Environmental Consultant presented the case as under: -

Sr. No	Description	Details
1	**Basic Details**	
1.1	Name of Industry & Project Proponent:	I**ndustry Name:** M/s Bansal & Bansal Organics **Proponent:** Mr. Mukesh Gupta (General Manager)
1.2	Proposal:	**SIA/PB/IND3/76857/2022**
1.3	Location of Industry:	Plot-No A-5, Industrial Focal Point, Raikot, District Ludhiana, Punjab.
1.4	Details of Land area & built-up area:	5000 sqyards (4180 m^2)
1.5	Category under EIA notification dated 14.09.2006	Category-B1
1.6	Cost of the project	Rs. 6.3 crores
1.7	Compliance of Public Hearing Proceedings	The unit is being established in notified industrial Focal Point developed by PSIEC (State Govt. Undertaking). As per the OM dated 27.04.2018 issued by MoEF&CC, relevant portion of the same is as under: *"The exemption for public consultation under EIA notification to the project or activities located within the industrial estates or parks if applicable as under:* *1. Which were notified by the Central Govt. or the State/UT Govt. prior to the said notification coming into force on 14.09.2006."* Layout plan for mini growth centre at Raikot, District Ludhiana, wherein the proposed industry is to be established submitted. The layout plan mentions drawing no. PSIEC/G.M/PLG/LP-32/2021 dated 23.01.1999. The drawing was revised on 29.11.2019

		followed by 22.12.2020 and 28.01.2021.
2.	**Site Suitability Characteristics**	
2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	Allotment letter issued by PSIEC submitted, details are at column no. 2.2.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	Allotment letter issued by PSIEC vide no. PSIEC/ESTATE/25399 Dated: -11.02.2021 for transferring of plot no. A-5, Industrial Focal Point, Raikot, measuring 5000 sqyard in the name of M/s Bansal & Bansal Organics for the manufacturing of Formaldehyde, Urea Formaldehyde submitted.
3	**Forest, Wildlife and Green Area**	
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No, self-declaration in this regard submitted.
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, self-declaration in this regard submitted.
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No, self-declaration in this regard submitted.
3.4	Distance of the industry from the Critically Polluted Area.	The site of the project falls in the Ludhiana, however, the distance of the project not specified.
3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. *(Specify the distance from the nearest Eco sensitive zone)*	The industry is not located in any notified eco-sensitive zone.
3.6	Green area requirement and proposed No. of trees:	Approx. 1480 sqm (35% of total land), 96 trees will be planted.
3.7	Distance from the critically polluted area	The site of the project falls at a distance of 19 km from the critically polluted area of Ludhiana.
4.	**Raw Material & Product details**	
4.1	**Raw Material**	

PRODUCT	NAME OF RAW MATERIAL	QUANTITY (Kg/Ton. of Product)	SOURCES
Formaldehyde	Methanol	460	Local market
	Water	500	Ground water
Melamine Formaldehyde	Melamine	**305**	Local market
	Formaldehyde	**705**	In-house mfg.
	Caustic	**5**	Local market

Phenol Formaldehyde	Phenol	**500**	Local market
	Formaldehyde	**565**	In-house mfg.
	Caustic	**5**	Local market
Urea Formaldehyde	Urea	**305**	Local market
	Formaldehyde	**705**	In-house mfg.
	Acetic Acid	**5**	Local market
	Caustic	**5**	Local market

Major Equipments and Machineries

S. No.	Machines& Equipment
1.	Heat Exchangers
2.	Evaporator with steam coil and air Sparser
3.	Evaporator Filter
4.	Super Heater Separator with connection Band
5.	Vapour Filter Jacket
6.	Baby Boiler of 600 Kg capacity
7..	Methanol Separator
8.	Reactors Dome
9.	Reactor Tubular
10.	Non-Boiler Condensers
11.	Non-Boiler Separators
12.	Condenser with sump
13.	Mixing Vessel
14..	Steam Separator
15.	Process Water tank
16.	Process water filter/RO System
17.	Absorption column
18.	Circulation Tower
19.	Valves & pipelines
20.	Silver (as catalyst)
21.	Rotameters
22.	Rotatory Twin lobe Air Blower
23.	Cooling Towers
24	Laboratory Suitable for testing of Formaldehyde Methanol as per standard
25	Effluent Treatment Plant/Air Pollution Control Systems

4.2	Population details	18 employees
5	**Water**	
5.1	Total fresh water requirement:	145 KLD,

<table>
<tr><td>5.2</td><td>Source:</td><td>PSIEC Water supply and own Tube well.</td></tr>
<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>Acknowledgement of the application for abstraction of 77 KLD of ground water filed with PWRDA submitted.</td></tr>
<tr><td>5.4</td><td>Total water requirement for domestic purpose:</td><td>2.5 KLD</td></tr>
<tr><td>5.4.1</td><td>Total domestic wastewater generation:</td><td>2.0 KLD</td></tr>
<tr><td>5.4.2</td><td>Treatment methodology for domestic wastewater:

(STP capacity, technology & components)</td><td>15KLD capacity ETP-cum STP will be provided for treatment of the effluent.</td></tr>
<tr><td>5.5</td><td>Total water requirement for industrial purpose:</td><td>130.5 KLD</td></tr>
<tr><td>5.5.1</td><td>Total effluent generation:</td><td>8 KLD</td></tr>
<tr><td>5.5.2</td><td>Treatment methodology for industrial wastewater:</td><td>15KLD capacity ETP-cum STP will be provided for treatment of the same.</td></tr>
<tr><td>5.6</td><td>Details of utilization of treated wastewater into green area in summer, winter and rainy season:</td><td>Summer: 8.5 KLD,
Winter: 2.8 KLD,
Rainy: 0.8 KLD,</td></tr>
<tr><td>5.7</td><td>Utilization/Disposal of excess treated wastewater.</td><td>None, the industry will be work on ZERO Liquid discharge concept.</td></tr>
<tr><td>5.8</td><td colspan="2">Cumulative Details:
<table>
<tr><th>Use</th><th>Water Consumption (KLD)</th><th>Waste-water generation (KLD)</th></tr>
<tr><td>D.M. Water (for Process)</td><td>110</td><td>5</td></tr>
<tr><td>Cooling Water (Make Up Water)</td><td>15</td><td>2</td></tr>
<tr><td>Boiler</td><td>5.5</td><td>1</td></tr>
<tr><td>Domestic Use</td><td>2.5</td><td>2.0</td></tr>
<tr><td>Green Area</td><td>12 (10 KLD- recycled and 2 KLD fresh)</td><td>---</td></tr>
<tr><td>Total</td><td>145 (135 Fresh water & 10 KLD recycled)</td><td>10</td></tr>
</table></td></tr>
<tr><td>5.9</td><td colspan="2">Rain water harvesting proposal:</td><td>1 no. pond having surface area 1.5 acres has been adopted at Village Gobindgarh to recharge ground water and NOC from Smt. Kiranjeet Kaur Sarpanch of Village Gobindgarh, Tehsil Raikot, obtained and submitted.</td></tr>
<tr><td>6</td><td colspan="3">Air</td></tr>
<tr><td>6.1</td><td colspan="2">Details of Air Polluting machinery:</td><td>• Boiler-0.6 TPH
• D.G. sets – 200 KVA</td></tr>
</table>

<table>
<tr><td></td><td></td><td>• Fugitive emissions from manufacturing process</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>Boiler: Cyclone separator will be provided as APCD.
D.G. sets: DG set shall be equipped with canopy and a stack of adequate height as per norms.

Fugitive emissions from manufacturing process: Wet Scrubber will be installed</td></tr>
<tr><td>7</td><td>Waste Management</td><td></td></tr>
<tr><td>7.2</td><td>APCD dust generation & its management</td><td>APCD dust will be sent to authorised recycler.</td></tr>
<tr><td>7.3</td><td>Solid waste generation & its management (Mechanical Composter/Compost pits)</td><td>
<table>
<tr><th>Category</th><th>Type of Waste</th><th>Color of Bins</th><th>Disposal Method</th><th>Total Waste (Kg/day)</th></tr>
<tr><td>Bio Degradable</td><td>Organic Waste</td><td>Green</td><td>Composting</td><td>8.5</td></tr>
<tr><td>Non-Biodegradable</td><td>Recyclable Waste</td><td>Blue</td><td>Recycler</td><td>5.5</td></tr>
<tr><td></td><td>Total</td><td></td><td></td><td>14</td></tr>
</table>
</td></tr>
<tr><td>7.4</td><td>Hazardous Waste generation & its management</td><td>Used oil @0.05 KLPA generated after servicing of DG set will be given to authorised recyclers.

30 kg/month ETP Sludge will be generated which will be disposed of to TSDF Nimbua, Dera Bassi.</td></tr>
<tr><td>8</td><td>Energy Saving & EMP</td><td></td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>
<table>
<tr><th>Description</th><th>Requirement</th></tr>
<tr><td>Power Requirement</td><td>200 KW</td></tr>
<tr><td>Source</td><td>Punjab State Power Corporation Limited, Punjab</td></tr>
</table>
</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>LEDs with tube lights will be used which shall save 20 KW of energy.</td></tr>
<tr><td>8.3</td><td colspan="2">Details of activities proposed under Environment Management Plan:
<table>
<tr><th>Sr. No.</th><th>Details</th><th>Capital Cost (In Lacs)</th><th>Recurring Cost (In Lacs/annum)</th></tr>
<tr><td>1.</td><td>APCD</td><td>3</td><td>0.5</td></tr>
<tr><td>3.</td><td>ETP</td><td>10</td><td>1.5</td></tr>
<tr><td>4.</td><td>OCEMS</td><td>0</td><td>0</td></tr>
<tr><td>5.</td><td>Green belt development with maintenance plan for 3 years</td><td>5</td><td>0.5</td></tr>
</table>
</td></tr>
</table>

	6.	Rain Water Harvesting	8	0.3
	7.	Environment Monitoring	0.2	0.20
	8.	Solid Waste Management	0.70	0.20
	9.	Energy Conservation	0.5	0.2
	10	Disaster and Risk Management	3	1.5
	11.	Miscellaneous	1.6	0.1
	Total		**32.00**	**5.00**

After detailed deliberations, SEAC decided to award **'Silver Grading'** to the project proposal under category B1, Activity 5 (f) and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for chemical unit for manufacturing of Formaldehyde @ 200 TPD & Resin/Glue @ 300 TPD by M/s Bansal & Bansal Organics located at Plot no.- A-5, Industrial Focal Point, Raikot, District Ludhiana, Punjab, subject to the following special condition & other conditions as under:

I. Special Condition:

1. That the Project Proponent shall mark the area for the storage and handling of hazardous chemicals and hazardous waste.

II. 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 the necessary permission from the Central Ground Water Authority/ competent authority concerned, in case of drawl of ground water and also in case of drawl of surface water required for the project. In case of non- grant of

permission by CGWA for ground water abstraction, the industry shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from competent authority.

v. 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 Punjab State pollution Control Board/ Committee.

vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

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

viii. The project proponent shall comply with the CLU conditions imposed by competent authority, if any

ix. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

III. Air quality monitoring and preservation

i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised 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 labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.

iii. The project proponent shall install a system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5 in reference to PM emission, and SO_2 and NO_x in reference to $S0_2$ and NO_x emissions) within and outside the plant area (at least at four locations one for small units) within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.

iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.

vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with

viii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

ix. Ambient air & noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air quality, noise especially during worst noise generating activities, water quality and soil should be periodically monitored during construction phase as well as operation & entire life phase as per the MoEF&CC guidelines, maintain the record for the same and all the mitigation measures should be taken to bring down the levels within the prescribed standards.

IV. Water quality monitoring and preservation

i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

ii. The total wastewater generated from the unit shall not exceed 2.5 KLD and the said quantity shall be treated in the ETP cum STP.

iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.

iv. Total fresh water requirement shall not exceed the quantity of 145 KLD as proposed in the proposal application. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

v. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.

vi. The Company shall store the rainwater from the roof tops of the buildings and utilize the same for different industrial operations within the plant.

vii. Water demand during construction should be reduced by use of ready mixed concrete, curing agents and other best practices.

viii. Provide electromagnetic flow meter at intake of water supply at the borewell for abstraction of ground water if any, outlet of the ETP/STP and any pipeline to be used for re-using the treated wastewater back into the system and for horticulture purpose/green belt etc.

ix. A proper record regarding groundwater abstraction, water consumption, its reuse and disposal shall be maintained on daily basis and shall maintain a record of readings of each such meter on daily basis.

x. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.

xi. Separation of drinking water supply, treated sewage supply and treated permeate line leading back to the process water should be done by the use of different colors.

V. Noise monitoring and prevention

i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.

iii. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

VI. Energy Conservation measures

i. The energy sources for lighting purposes shall preferably be LED based.

ii. The project proponent shall make efforts to ensure the reduction of overall power demand which may be met by solar system including the provision of solar water heating or through any other innovative environment friendly techniques.

VII. Waste management

i. All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.

ii. Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed of after taking the necessary precautions for general safety and health aspects of people with the approval of competent authority. The project proponent will comply with the provisions of Construction & Demolition Waste Rules, 2016. Dust, smoke & debris prevention measures such as wheel washing, screens, barricading and debris chute shall be installed at the site during construction including plastic / tarpaulin sheet covers for trucks bringing in sand & material at the site.

iii. Construction spoils, including bituminous material and other hazardous material, must not be allowed to contaminate watercourses. The dump sites for such material must be secured, so that they should not leach into the groundwater.

iv. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.

v. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.

vi. The Project proponent shall abide by the provisions of Solid Waste Management Rules, 2016 (amended from time to time), if applicable.

vii. The company shall undertake waste minimization measures as below: -

   a. Metering and control of quantities of active ingredients to minimize waste.
   b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
   c. Use of automated filling to minimize spillage.
   d. Use of Close Feed system into batch reactors.
   e. Venting equipment through vapour recovery system.
   f. Use of high-pressure hoses for equipment clearing to reduce wastewater generation

VIII. Green Belt

i. The green belt shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Total 96 trees to be planted without accounting the shrubs and protect the same with tree guard made of concrete.

ii. The Project Proponent shall develop green belt in 33% of the total land area 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 project area. The canopy trees shall also be planted around the parking area to provide shade to the parked vehicles.

iii. The project proponent shall plant tall saplings having height not less than 6 ft. The proponent shall make adequate provision of funds for raising the plantation and subsequent maintenance for three years in the Environment Management Plan.

i. The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report.

IX. Safety, 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 unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.

iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.

iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

v. 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.

vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

viii. A first aid room will be provided in the project both during construction and operation phase of the project.

X Validity of Environmental Clearance.

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

XI Environmental 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 and / or shareholders / stake holders. A 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 a senior Executive, who will report directly to the head of the organization.

iii. 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. The year-wise funds earmarked for environmental protection measures shall be kept in separate accounts and will not be diverted for any other purpose. The project proponent shall spend the minimum amount of Rs. 32.0 Lacs towards the capital cost and Rs. 5 Lacs/annum towards recurring cost in the construction & operation phase of the project including the environmental monitoring cost as per the details given below:

Sr. No.	**Details**	**Capital Cost (In Lacs)**	**Recurring Cost (In Lacs/annum)**
1.	APCD	3	0.5
3.	ETP	10	1.5
4.	OCEMS	0	0
5.	Green belt development with maintenance plan for 3 years	5	0.5
6.	Rain Water Harvesting	8	0.3
7.	Environment Monitoring	0.2	0.20
8.	Solid Waste Management	0.70	0.20
9.	Energy Conservation	0.5	0.2
10	Disaster and Risk Management	3	1.5
11.	Miscellaneous	1.6	0.1
Total		**32.00**	**5.00**

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

iv. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

XII. Miscellaneous

i. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department etc. shall be obtained, by project proponent from the competent authorities including Punjab Pollution Control Board and from other statutory bodies as applicable.

ii. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority, Punjab.

iii. The environmental safeguards contained in the application of the promoter / mentioned during the presentation before State Level Environment Impact Assessment Authority/State Expert Appraisal Committee should be implemented in letter and spirit.

iv. 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.

v. 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.

vi. 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.

vii. The project proponent shall monitor the criteria pollutants level namely; PM10, S02, NOx (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.

viii. 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.

ix. 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.

x. 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.

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

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

xiii. 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.

xiv. The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/ SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/ information/monitoring reports.

XIII. ADDITIONAL CONDITIONS:

i. The Environmental Clearance is granted to the project subject to the condition that industry shall obtain change of land use/building plan approval for the industrial purposes and submit a copy of the same to SEIAA. In case, CLU/building plan approval has been rejected for industrial use for any reason, SEIAA will not be responsible for the cost incurred on the project.

ii. To achieve the Zero Liquid Discharge, waste water generated from different industrial operations should be properly collected, treated to the prescribed standards and then recycled or reused for the identified uses.

iii. The Project Proponent shall install online monitoring system at inlet as well as at the outlet of ETP for monitoring various environmental parameters.

iv. The project proponent shall make necessary arrangements for the recovery and reuse of steam condensate resulting from the indirect steam applications and shall not allow to discharge such effluents into drain.

v. The project proponent shall provide advanced scrubbing systems with proper neutralizing media to handle the acidic/alkaline emissions from storage, handling & processing activities. Wherever required, packed bed scrubbers will also be provided. The suction and scrubbing systems shall also be designed to handle the inherent odours from such units.

vi. The project proponent shall provide the Air Pollution Control Devices as proposed by the PPCB to control the emissions generated from the boiler within the prescribed parameter.

vii. The project proponent shall practice rainwater harvesting to maximum possible extent. For this the Project Proponent shall adopt nearest village pond for carrying out rain water harvesting.

viii. 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 rain water etc is not impeded or disrupted in any manner.

Item No. 221.07: Application for issuance of TORs for proposed steel Manufacturing Unit located at Village Ambey Majra, Mandi Gobindarh, Tehsil Amloh, District Fatehgarh Sahib, Punjab by M/s K.L Alloys Private Limited. (Proposal No. SIA/PB/IND/76347/2022).

The industry namely M/s K.L Alloys Private Limited is engaged in the manufacturing of steel ingots/billets, MS Round, Bars & Flats @ 28,700 TPA. The industry was granted Consent to Operate under the provisions of the Water Act 1974 & Air Act 1981 for the manufacturing of 82 MTD of steel ingots/billets which is valid up to 30.09.2023.

Now, the industry has proposed for carrying out expansion by increase in the manufacturing of steel ingots/billets, MS Round, Bars & Flats @ 28,700 TPA to 1,57,500. Since, the production capacity of the industry exceeds 30,000 TPA, as such the industry attracts the provisions of the activity 3(a) of the schedule appended with the EIA notification dated 14.09.2006.

The industry has applied for issuance of TORs for setting up of steel Manufacturing Unit located at Village Ambey Majra, Mandi Gobindarh, Tehsil Amloh, District Fatehgarh Sahib, Punjab. The industry has proposed to manufacture 1,57,500 TPA of Steel Ingots/billets, MS Rounds, Bars, Flats by replacing existing induction Furnace of 7 TPH capacity with 2 new Induction Furnace having capacity 15 TPH each.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

The industry submitted the Form I, prefeasibility report and other additional documents through online portal. The cost of the project is Rs. 30.34 Cr. The industry has deposited Rs.72,300/- vide NEFT no. AXSK221170017155 dated 27.04.2022 & Rs. 3550/- vide NEFT no. AXSK221170017789 dated 27.04.2022 (Rs. 2,27,550/- 75% remaining fee will be deposited at the EC time), as checked & verified by the supporting staff of SEIAA.

Deliberations during 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Sh. Manish Dhingra, Director, M/s K.L Alloys Private Limited.
(ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(iii) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of Project Proponent to present the salient features of the project. Thereafter, Environmental Consultant presented the case as under: -

Sr. No.	Description	Details
1.	Online Proposal No.	**SIA/PB/IND/76347/2022**
2.	Name and Location of the project	M/s K.L. Alloys Pvt. Ltd. located at Village- Ambey Majra, Mandi Gobindgarh Tehsil- Amloh, District Fatehgarh Sahib, Punjab.
3.	Nature of project (Fresh EC/EC for Expansion/New)	Fresh (ToR)
4.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time.)	(a) B1 (b) Metallurgical Industries (ferrous & non-ferrous) (8), Schedule 3(a) as per EIA notification-2006.
5.	Whether project falls within 5km from the boundary of critically polluted area (Yes/No)	No
6.	Undertaking to reflect that project is neither located near to PLPA area nor fall in the PLPA area	No, a self-declaration to the effect that the project does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900 submitted
7.	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No, a self-declaration to the effect that no land covered under the Forest Conservation Act 1980 is involved in the project submitted.
8.	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife sanctuary is involved in the vicinity or study area of the project site. Thus, the industry does not require clearance under the provisions of Wildlife Protection Act 1972. A self-declaration in this regard submitted.
9.	Whether the industry falls within the influence of Eco-Sensitive Zone or not. *(Specify the distance from the nearest Eco sensitive zone)*	The project is not located in any notified eco-sensitive zone.
10.	Classification/Land use pattern as per Master Plan	The industry falls in the industrial zone as per the Master Plan of Mandi Gobindgarh.
11.	Details of land	**Total Land** – 10589.89 m^2
12.	Manpower (Existing & After expansion)	Existing - 80 Proposed – 160 Total- 240

13. Project Area Details:

S. No.	Details	Existing Land	Proposed Additional Land	Total land after Expansion
1.	Plot Area (in sqm)	10589.19	Nil	10589.19

14. Raw Material requirement as per following format:

S. No.	Raw Material	Existing (TPA)	Proposed (TPA)	After Expansion (TPA)
1.	MS Scrap, Ferro Alloys	30,800	1,44,025	1,74,825

15. Production Capacity as per following format:

S. No.	Product name	Existing (TPA)	Proposed (TPA)	After Expansion (TPA)
1.	Steel Ingot/Billets, MS Rounds, TMT Bars, Flats	28,700	1,28,800	1,57,500

16. Details of major productive machinery/plant

S. No.	Particulars	Existing	Proposed	After Expansion
1.	Induction Furnace, rolling mill	1X7TPH (Upgraded)	2X15 TPH	2X15 TPH
2.	Rolling mill	18 Ton/hr	Nil	18 Ton/hr
3.	Concast	01 No.	Nil	01 No.

17. Water Requirements & its source:

S. No.	Description	Existing water demand (KLD)	Proposed water demand (KLD)	Total water demand (KLD)
1.	Domestic water demand	3.6 KLD	7.2 KLD	10.8 KLD
2.	Cooling (makeup water)	8.0 KLD	6.0 KLD	14.0 KLD
Total		**24.5 KLD**	**13.2 KLD**	**24.8 KLD**

18. Details of Emissions (After expansion)

Sr. No.	Source	Capacity (TPH)	Chimney Height (m)	Details of existing & proposed Air Pollution Control Device
i)	Induction Furnace	2X15 TPH,	30	Side Suction Hood, Spark Arrestor, Bag House, ID Fan (Offline cleaning pulsejet bag filter)

19. Details of Hazardous waste and its disposal (After expansion)

Sr. No.	Hazardous Waste	Category	Quantity (TPA) (After expansion)	Disposal arrangement
1.	Gas Cleaning Residue (APCD dust)-Bag filter	35.1	0.8	Sent to TSDF site/Madhav Alloys
2.	Used Oil (kl/annum)	5.1	0.02 kl/annum	Used as Lubricant within the industry/sent to authorized recyclers.

20. Solid waste generation and its disposal(After expansion)

Sr. No.	Solid Waste	Quantity (TPD) (After Expansion)	Disposal arrangement
(i)	Slag	30	The slag generated shall be disposed of to the manufacturer of the concrete blocks, pavers and tiles.

21.	Energy Requirements (After expansion)	10,000 KW

The Committee observed that the industry falls in the industrial zone as per the Master Plan of Mandi Gobindgarh. After detailed deliberations, SEAC decided to categorize the project under Activity 3(a); B-1 with public consultation as required for the project. The Committee recommended the case to SEIAA to approve the Terms of Reference for proposed steel Manufacturing Unit located at Village Ambey Majra, Mandi Gobindarh, Tehsil Amloh, District Fatehgarh Sahib, Punjab for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the following TORs:

STANDARD TERMS OF REFERENCE

I) <u>Executive Summary</u>

Report in about 8-10 pages incorporating the following:

i) Introduction of the Project and Promoter Company.

ii) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EC.

iii) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)

iv) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.

v) Measures for mitigating the impact on the environment and mode of discharge or disposal.

vi) Capital cost of the project, estimated time of completion

vii) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of is acquisition, nearby (in 2-3 km.) water body, population, within 10 km other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)

viii) Baseline environmental data - air quality, surface and groundwater quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.

ix) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk

x) Likely impact of the project on air, water, land, flora-fauna and nearby population

xi) Emergency preparedness plan in case of natural or in plant emergencies

xii) Issues raised during public hearing (if applicable) and response given

xiii) CSR/CER plan with proposed expenditure.

xiv) Occupational Health Measures

xv) Post Project monitoring plan

xvi) Synopsis of the project (Available on https://decc.punjab.gov.in/)

II) Introduction

i) Details of the EIA Consultant including NABET accreditation

ii) Information about the project proponent

iii) Importance and benefits of the project

III) Project Description

i) Cost of project and time of completion.

ii) Products with capacities for the proposed project.

iii) If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.

iv) List of raw materials required and their source along with mode of transportation.

v) Other chemicals and materials required with quantities and storage capacities.

vi) Details of Emission, effluents, hazardous waste generation and their management.

vii) Requirement of water (breakup for induction and rolling mill), power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).

viii) Process description along with major equipment and machineries, process flow sheet (quantitative) from raw material to products to be provided

ix) Hazard identification and details of proposed safety systems.

x) In case of Expansion/modernization proposals:

a) Status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.

b) In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

IV) <u>Site Details</u>

i) Location of the project site covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether other sites were considered. Copy of Master Plan indicating a land use pattern of the site is in conformity of proposals of Master Plan shall be attached with EIA report.

ii) A top sheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)

iii) Details w.r.t. option analysis for selection of site.

iv) Co-ordinates (lat-long) of all four corners of the site.

v) Google map-Earth downloaded of the project site

vi) Layout maps indicating existing unit as well as proposed unit indicating storage area of raw material, finished products, greenbelt area with marking of tree, Location of STP/ETP, Solid waste storage area, Parking space, Firefighting equipment layout, First aid room, Location of Tube wells, DG Sets & Transformers and any other utilities

vii) If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

viii) Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

ix) Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc. shall be included. (not required for industrial area)

x) A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.

xi) Geological features and Geo-hydrological status of the study area shall be included.

xii) Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xiii) Status of acquisition of land. lf acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xiv) R&R details in respect of land in line with state Government policy

V) <u>Forest and wildlife related issues (if applicable):</u>

i) Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (If applicable).

ii) Land use map based on High resolution satellite imagery (OPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).

iii) Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv) The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the

project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

v) Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.

vi) Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

vii) In case, no diversion of Forest land, Eco Sensitive area/ National park/Wild Life Sanctuary within 10 Km then the project proponent will submit the NOC from the concerned territorial / wildlife DFO's that no Forest/PLPA/Wildlife areas are involved, at the time of submission of EIA report

VI) <u>Environmental Status</u>

i) Determination of atmospheric inversion level at the project site and site specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii) AAQ data (except monsoon) at 8 locations for PM 10, PM2.5, S02, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre dominant wind direction, population zone and sensitive receptors including reserved forests.

iii) Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

iv) Surface water quality of nearby River (100m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF& CC guidelines.

v) Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF& CC.

vi) Groundwater monitoring at minimum at 8 locations shall be included.

vii) Noise levels monitoring at 8 locations within the study area.

viii) Soil Characteristic as per CPCB guidelines.

ix) Traffic feasibility / serviceability study for at least 5 days based on Indian Standard Codes. Further it shall also include the details of cross section of the road on which industry is located, vehicles movement w.r.t. the industry, traffic load of other vehicles on the road incorporating the haulage time for the vehicles for loading/unloading

within the premises and parking requirement to avoid the traffic congestions on the link and adjoining roads. Traffic study shall be conducted considering the traffic of the industries located in the vicinity.

x) Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

xi) Socio-economic status of the study area.

xii) Baseline data should not be older than 3 years.

VII) <u>Impact Assessment and Environment Management Plan</u>

i) Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the model used and the input data used for modeling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii) Water Quality modelling.

iii) Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.

iv) A note on treatment, recycling and reuse of wastewater from different plant operations, extent for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under EPA Rules.

v) Details of stack emission and action plan for control of emissions to meet standards.

vi) Measures for fugitive emission control

vii) Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii) Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix) Action plan for the green belt development in 33 % area with not less than 1,500 trees per hectares giving details of species, width of plantation, planting schedule, post plantation maintenance plan for 3 years shall be included. The green belt shall be around the boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x) Action plan for rainwater harvesting measures at alternative sites shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the groundwater and also to use for the various activities to conserve freshwater and reduce the water requirement from other sources.

xi) Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

xii) Action plan for post-project environmental monitoring shall be submitted.

xiii) Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with the District Disaster Management Plan.

VIII) <u>Occupational health</u>

i) Details of existing Occupational & Safety Hazards. What are the exposure levels of above-mentioned hazards and whether they are within the Permissible Exposure Level (PEL)? If these are not within PEL, what measures the company has adopted to keep them within PEL so that the health of the workers can be preserved.

ii) Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre-designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analysed data of above-mentioned parameters as per age, sex, duration of exposure and department wise.

iii) Annual report of the health status of workers with special reference to Occupational Health and Safety.

iv) Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

IX) <u>Corporate Environment Policy</u>

i) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

ii) Does the Environment Policy prescribe for standard operating processes/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? If so, it may be detailed in the EIA.

iii) What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv) Does the company have a system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

v) Details regarding infrastructure facilities such as sanitation, fuel, restroom, etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during the operation phase.

X) <u>Enterprise Social Commitment (ESC)</u>

i) The project proponent shall propose activities in lieu of Corporate Environmental Responsibility (CER) in the Environmental Management Plan as per the provisions of OM dated 25.02.2021 issued by the MoEF&CC.

ii) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

iii) A tabular chart with index for points wise compliance of above TORs.

XI) <u>STANDARDISED SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR INDUCTION/ ARC FURNACES/CUPOLA FURNACES 5TPH OR MORE</u>

i) Details of proposed layout clearly demarcating existing & proposed features of the project within the plant.

ii) Total no. of furnaces & details including capacity of each furnace.

iii) Detail of the mechanical shredder to reduce the size of the raw material.

iv) Complete process flow diagram describing each unit, its processes, and operations, along with material and energy inputs and outputs (material and energy balance).

v) Details on the design and manufacturing process for all the units.

vi) Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other ·recycled materials.

vii) Details on the requirement of raw materials, its source, and storage at the plant.

viii) Details on the requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).

ix) Details on toxic metal content in the waste material and its composition and end-use (particularly of slag).

x) Details on toxic content (TCLP), composition and end-use of chrome slag. Details on the recovery of the Ferro chrome from the slag and its proper disposal.

XII) <u>ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC AND SEIAA</u>

i) Public consultation is required for the project as it is not located in a notified industrial park/estate.

ii) The project proponent shall submit complete proposal for the management of ash at the time of submission of EIA report for obtaining environmental clearance

iii) Submit proof of ownership of land (existing owner) such as copy of latest Jamabandi (not more than one month old) and credible document showing status of land acquisition w.r.t. project site (as prescribed in OM dated 07.10.2014 issued by MoEF)

iv) Submit dully filled prescribed field data sheets and analysis reports along with exact location of sampling / monitoring point marked on the layout map. Also submit the status of approvals of Laboratories.

v) Submit cost of the project duly certified by Chartered Engineer/ Approved valuer / Chartered Accountant. In the absence of above, the project proponent may submit self-certified detail of cost of the project mentioning the cost of Land, building, infrastructure and plant and machinery.

vi) Certificate from the concerned authority w.r.t the location of protected areas as notified under the Wildlife Protection Act, 1972 within 5 km radius from the boundary of the project site.

vii) Certificate from the Department of Town & Country Planning or concerned authorities to support the claim made by project proponent that the project site is located in the industrial zone as per the provisions of Master Plan of Town/City in the jurisdiction of

which the project site is located or the project proponent shall submit the Change of land use of the project site for total land area.

viii) Compliance of 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.

ix) Necessary permissions from the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA)/concerned authority for the abstraction of groundwater for the existing requirements as well as for the expanded unit. In case of not allowing such permission by the concerned authority for the abstraction of additional groundwater for the expanded project, the project proponent shall propose alternative arrangements to meet out the additional water requirements. It shall be ensured that: -

a) In the projects where groundwater is proposed as a water source, the project proponent shall apply to the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC) if applicable.

b) Approval /permission of the CGWA/SGWA shall be obtained before drawing groundwater for the project activities.

c) In the absence of approval, submit a copy of acknowledgment along with a set of application filed to CGWA /Competent Authority for obtaining permission for the abstraction of groundwater

x) Minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

xi) STP for treatment of wastewater & re-utilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09/08/2018 issued by the MoEF&CC for such units.

xii) Reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.

xiii) In case of any acid pickling activity, the spent acid/effluents generated from such activities shall be utilized through authorized re-processors for converting the same into useful by-products like $FeSO_4$ etc. An agreement to this effect shall be made with the authorized agencies.

xiv) Adequate area to be reserved and marked on the layout plan for the green belt as per the conditions laid down by the MoEF&CC as per the Standard EC Conditions

prescribed for Induction/ Electric Arc Furnace & Rolling Mills circulated vide OM dated 09/08/2018.

xv) Detailed study report along with calculation for reserving land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking incorporating the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.

xvi) Action plan for the compliance of standard operating procedures and up-gradation of suction and treatment arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.

xvii) Compliance of standard operating procedures and up-gradation of suction/treatment systems for the control of secondary emissions within the time frame prescribed by the State Pollution Control Board. Similar action is to be implemented in the proposed expansion project.

xviii) Whole of the vehicle movement area as well as the approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.

xix) The vehicles to be used for loading/unloading purposes shall not be parked along the roadside so as to avoid the traffic congestion and dedicated parking place to be provided for the same.

xx) Adopt green technologies to conserve the water and energy including shearing/cutting / bundling machines. Also, to provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.

xxi) Use of natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.

xxii) Submit compliance w.r.t. condition no.II [(i) & (iii)] subtitled as "Air Quality Monitoring & Preservation" regarding continuous emission monitoring system and continuous ambient air quality monitoring as prescribed in the Standard EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills issued by the MoEF&CC, New Delhi vide OM dated 09/08/2018.

xxiii) Examine and submit the proposal for: -

a) Recovery of iron from slag before disposing of it.

b) Identify the areas for utilization of slag in a scientific manner and explore its usage in cement/construction industry/manufacturing of pavers & tiles/road laying etc.

c) Recovery of precious metals like Zinc, lead and iron etc. from the APCD dust (Hazardous waste) through authorized re-processor.

xxiv) Air Pollution Control Arrangement details shall be provided as below:

Plant /Unit	Pollutants	Qty generated	Method used to Control /specifications (attach Separate Sheet to furnish Details)	Number of units planned & Capacity	Budget	Estimated Post Control Qty Pollutant	
						Per Unit	Per day

xxv) Submit compliance regarding the installation of Pulse jet bag filter with offline cleaning technology as APCD with the proposed induction furnace.

xxvi) List the species with heavy foliage, broad leaves and wide canopy cover. The landscape planning should include plantation of native species. Water intensive and/or invasive species should not be used for landscaping.

xxvii) The project proponent shall collect the baseline data for three months (except monsoon season) as per MOEF&CC office memorandum dated 29.08.2017. For this, monitoring data of M/s Devbhoomi Casting Pvt. Ltd. falls within the buffer zone of the project collected during the period from 1st October 2021 to 31st December, 2021 may be utilized. Besides this, one-month additional study shall be undertaken at the project site from 15th January 2022 to 15th February, 2022.

XIII) <u>General Guidelines:</u>

(i) The EIA document shall be printed on both sides.

(ii) All documents shall be properly indexed, page numbered.

(iii) Period/date of data collection shall be clearly indicated.

(iv) The letter/application for environmental clearance shall quote the SEIAA file No. and also attach a copy of the letter.

(v) The copy of the letter received from SEIAA shall be also attached as an annexure to the final EIA-EMP Report.

(vi) The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.

Item No. 221.08: Application for extension in the validity of Environmental clearance granted under EIA notification dated 14.09.2006 to M/s Kay Ell Dee Metaliks Pvt. Ltd., for production of Steel Ingots- 84000TPA and TMT Bars- 35000TPA capacity at Village- Ambey Majra, Tehsil- Mandi Gobindgarh, District- Fatehgarh Sahib (Proposal No. SIA/PB/IND/270409/2022).

The industry was granted Environmental Clearance by MoEF&CC under EIA notification dated 14.09.2006 for establishment of Steel Unit for manufacturing of Steel Ingots @ 84000TPA and TMT Bars @ 35000TPA at Village- Ambey Majra, Tehsil- Mandi Gobindgarh, District- Fatehgarh Sahib vide no. zk-11011/414/2009-IA-II (I) dated 22 June 2011 which is valid up to 21.06.2018. Thereafter, the Project Proponent was granted extension in validity of Environment Clearance vide letter no. SEIAA/2018/932 dated 16.07.2018, up to 15.07.2021.

The industry has submitted an application for extension in validity of the Environmental Clearance and submitted Form-6, compliance of the earlier Environmental Clearance granted to the industry and analysis reports. The cost of the project is Rs. 19.95 Cr. The industry has deposited Rs. 1,99,500/- vide NEFT No.- N132221955746442 dated 12.05.2022 as checked & verified by the supporting staff of SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

As per the notification dated 18.01.2021 issued by MoEF&CC, the period from 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearance. The relevant para of the office circular is as under:

"9A. Notwithstanding anything contained in this notification, the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid."

In compliance to the above said notification, the period from the 1st April, 2020 to the 31st March, 2021 has not been taken into account while calculating prior Environmental Clearance, as such, the Environmental Clearance granted to the industry is still valid up to 15.07.2022.

Deliberations during 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Munish Dhingra, Director, M/s Kay Ell Dee Metaliks Pvt. Ltd.
(ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(iii) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

The Committee observed that the Project Proponent was earlier granted Environmental Clearance on 22 June 2011 which is valid up to 21.06.2018. Thereafter, the Project Proponent was granted extension in validity of Environment Clearance on 16.07.2018 up to 15.07.2021. Even after the span of 11 years, the project proponent failed to implement the project in accordance with the Environmental Clearance granted to the Project Proponent. The Project Proponent apprised the Committee that the Project could not be completed due to delay in getting the statutory approvals from different Departments. He further, apprised that now he has got the approval from PSPCL regarding power supply of 15000 KW & also enhanced the credit limit from the Bank and will be able to complete the entire project within the time frame of the extension sought under Environmental Clearance. He therefore requested the Committee to again extend the validity of Environmental Clearance.

After deliberations, SEAC decided to forward the application to SEIAA with the recommendation to grant extension in validity of Environmental Clearance.

Item no. 221.09: Application for Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of residential housing Project at Village Ramgarh Bhudda, Tehsil & District, SAS, Mohali, (Punjab) by M/s Suman Divine Homes, (Proposal No. SIA/PB/MIS/271700/2022).

The project proponent has submitted an application for obtaining Environmental Clearance under EIA Notification dated 14.09.2006 for the establishment of residential housing Project at Village Ramgarh Bhudda, Tehsil & District, SAS, Mohali, (Punjab). The total land area of the project is 8049 sqm having built-up area of 21,785 Sqm. The Project is covered under Activity 8(a) & Category 'B2' of the schedule appended with the EIA notification dated 14.09.2006. The total cost project is Rs. 23.22 Crore.

The project proponent submitted the Form I, 1A and other additional documents along with processing fee amounting to Rs. 43,570/- vide RTGS No. MAHBH22127086208 dated 07.05.2022, as verified by the supporting staff SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

PPCB was requested to send the latest construction status report of the project through e-mail on 13.05.2022. The construction status report is awaited.

Deliberations during 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(ii) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of Project Proponent to present the salient features of the project. Thereafter, Environmental Consultant presented the case as under: -

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	M/s Suman Divine Homes and Sh. Deepak Gandhi, Partner
1.2	Proposal:	**SIA/PB/MIS/271700/2022**

1.3	Location of Industry:	Village- Ramgarh Bhudda, Tehsil Dera Bassi, District- SAS Nagar, Punjab
1.4	Details of Land area & Built up area:	Total land area – 8049 sqm Area under road widening- 204 sqm Net Plot area – 7845 sqm Built up area- 21,785 sqm
1.5	Category under EIA notification dated 14.09.2006	B2
1.6	Cost of the project	Rs. 23.22 Crores
2.	**Site Suitability Characteristics**	
2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	The project falls in the residential zone as per the Master Plan of Zirakpur.
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 area measuring 09 bigha, 12 Biswa, 11 Biswasi (9627.5 Sqyard) falling in the Village Ramgarh Bhudda, Zirakpur in the name of M/s Suman Divine Homes obtained from Additional Deputy Commissioner, (Urban Development), SAS Nagar, Punjab vide memo no. S1/CLU/ADC(UD)/S.A.S. Nagar/2022/196 dated 21.01.2022.
3	**Forest, Wildlife and Green Area**	
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No, a self-declaration to the effect that no land covered under the Forest Conservation Act 1980 is involved in the project submitted.
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, a self-declaration to the effect that the project does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900 submitted.
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife sanctuary is involved in the vicinity or study area of the project site. Thus, the industry does not require clearance under the provisions of Wildlife Protection Act 1972. A self-declaration in this regard submitted.

3.4	Whether the industry falls within the influence of Eco-Sensitive Zone or not. *(Specify the distance from the nearest Eco sensitive zone)*	Not applicable
3.5	Green area requirement and proposed No. of trees:	Green area 2115.82 sqm Proposed number of trees- 100
4.	**Configuration & Population**	
4.1	Proposal & Configuration	

SR. NO.	PARTICULARS	AREA (m^2)
1	Net Plot Area	7845
	TOTAL BUILT UP AREA DETAILS	**m^2**
1	**FAR Area**	**16346.91**
2	**Non-FAR Area (Basement area + Balconies)**	**5438.09**
Total		**21,785m^2**

Block Wise Details:

Sr. No.	Name of the Block	Number of Flats	Type of Flat	Number of Floors	Area in Sqft.
1.	Block A	96	3 BHK	12	58536.344
2.	Block A1	36	3 BHK	12	45174.156
3.	Block B	48	3 BHK	12	59461.194
4	EWS	18	1 BHK	9	9941.082
5.	Club	01	--	G+1	2844.0
Total		**198 Flats**			**175956.77**

4.2 **Population details:**

Sr. No.	Description	Number of units	Population	Water requirement	Total Water requirement in KLD
1.	3 BHK- 180 1 BHK-18	198 @ 5 Persons/unit	990 Persons	86 lpcd	85.14
2.	Floating Population/Club House		150 Persons	15 lpcd	2.25
			1140 Persons		**87.39**

5	**Water**

<table>
<tr><td>5.1</td><td>Total water requirement</td><td>87 KLD</td></tr>
<tr><td>5.2</td><td>Total fresh water requirement:</td><td>73 KLD</td></tr>
<tr><td>5.2</td><td>Source:</td><td>Tubewell</td></tr>
<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>Acknowledgement of the application for abstraction of 73 KLD of ground water filed with PWRDA submitted.</td></tr>
<tr><td>5.4</td><td>Total water requirement for domestic purpose:</td><td>73 KLD</td></tr>
<tr><td>5.4.1</td><td>Total wastewater generation:</td><td>69.6 KLD</td></tr>
<tr><td>5.4.2</td><td>Treatment methodology for domestic wastewater:
(STP capacity, technology & components)</td><td>STP of 100 KLD will be installed and the treated waste water will be used for plantation, landscaping, parks & flushing etc</td></tr>
<tr><td>5.6</td><td>Details of utilization of treated wastewater into green area in summer, winter and rainy season:</td><td>Treated water will be partly used for tree plantation, landscaping, parks & flushing etc within the project premises
Summer- 11.0 KLD
Winter-3.6 KLD
Rainy- 1 KLD</td></tr>
<tr><td>5.7</td><td>Utilization/Disposal of excess treated wastewater.</td><td>The excess treated waste water from STP shall be discharged into sewer.
Summer- 44.6 KLD
Winter-52 KLD
Rainy- 54.6 KLD
A copy of permission for discharge of excess treated waste water into MC sewer of Zirakpur issued vide certificate no. 205 dated 06.05.2022 submitted.</td></tr>
<tr><td>5.8</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>87 KLD</td><td>69.6 KLD</td><td>69.6 KLD</td><td>14.0 KLD</td><td>11.0 KLD</td><td>44.6 KLD</td></tr>
</table></td></tr>
</table>

<table>
<tr><td>5.9</td><td>Rain water harvesting proposal:</td><td>2 No. RWH pits will be provided for carrying out rain water harvesting.</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>D.G. set of capacity 500 KVA shall be installed.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>Canopy equipped DG set with adequate height will be installed.</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>460 kg/day</td></tr>
<tr><td>7.2</td><td>Details of management and disposal of solid waste (Mechanical Composter/Compost pits)</td><td>The solid waste will be processed in accordance with the Municipal Solid Wastes (Management and Handling) Rules, 2000 and amended Rules 2016.</td></tr>
<tr><td>7.5</td><td>Details of management of Hazardous Waste.</td><td>Used oil @200 lt shall be generated which will be given to the authorized recycler.</td></tr>
<tr><td>8</td><td>Energy Saving & EMP</td><td></td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>125 KW</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>LEDs will be used for saving energy</td></tr>
<tr><td>8.3</td><td>Details of activities under Environment Management Plan:</td><td>For Constructional Phase
<table>
<tr><th>SR. NO.</th><th>PARTICULARS</th><th>APPROX. CAPITAL COST (LAC)</th><th>APPROX. RECURRING COST (LAC)</th><th>ITEMS COVERED</th></tr>
<tr><td>1.</td><td>Medical Cum First Aid</td><td>1.0</td><td>0.5</td><td>First aid medical facility with first aid kit</td></tr>
<tr><td>2.</td><td>Toilets for workers</td><td>1.0</td><td>0.5</td><td>Toilets with septic tank</td></tr>
</table></td></tr>
</table>

3.	Wind breaking curtains	2.0	0.5	Wind breaking walls at vulnerable areas
4.	Sprinklers for suppression of dust	2.0	0.5	Sprinklers, Pipeline
Total Cost		**Rs 6.0**	**Rs 2.0**	

For Operational Phase

SR. NO.	**PARTICULARS**	**APPROX. CAPITAL COST (Rs LAC)**	**APPROX. RECURRING COST (Rs LAC)**	**ITEMS COVERED**
1.	Sewage Treatment Plant	20.0	5.0	STP
2.	Solid Waste segregation & disposal	5.0	1.5	Colored Bins at appropriate Locations
3.	Green Belt including Lawns coverage	1.0	1.0 (for 3 years)	Plantation and landscaping
Total		**26.0**	**7.5**	

The Committee observed that the construction status report is awaited from the Punjab Pollution Control Board. It is therefore, decided by the Committee to defer the case till the receipt of the construction status report from Punjab Pollution Control Board.

Item no. 221.10 Application for environment clearance under EIA notification dated 14.09.2006 for establishment of group housing project namely "Amritsar One" located at Shubham Enclave besides NH-1, Amritsar Punjab by M/s ATM Estate Pvt. Ltd. (Proposal no. SIA/PB/MIS/243835/2021).

The project was granted environment clearance vide MoEF&CC letter no. 21-42/2010-IA.III dated 20.04.2011 for the establishment of group housing project namely "**Amritsar One**" located at Shubham Enclave besides NH-1, Amritsar Punjab. The total land area of the project was 3.27 hectares with built up area of 51,383.45 sqm.

The Project Proponent mentioned in the proposal that the construction work pertaining to the following towers has been started in the mid of year 2011 and the construction continued till 2017 in accordance with the earlier Environment Clearance granted to the promoter company. The tower wise status of construction activity carried out till date is as under:

Tower Name	**Type of DU**	**Total No. of Buildings in each Tower**	**Total No. of Slabs in each Building**	**Total No. of Slabs**	**Slab Work Completed**	**Pending Slab**	**Remarks**
Tower 1	Type A	2	9	18	0	18	Construction pending
Tower 2	Type A & Type B	4	10	40	30	10	**Partly construction pending**
Tower 3	Type C & Type G (Duplex Penthouse)	2	11	22	22	0	**Construction completed**
Tower 4	Type D & Type H (Duplex Penthouse)	1	11	11	11	0	**Construction completed**
Tower 5	Type L (EWS)	1	8	8	0	8	Construction pending
-	Type E	2	3	6	6	0	**Construction completed**
Club	-	1	2	2	0	2	Construction pending

The Project Proponent also mentioned in the application that at the time of the earlier Environmental Clearance granted to the Promoter Company, the Non-FAR area was not taken into account in the total built-up area of the project. The Office Circular issued by MoEF&CC vide no. 19-127/2011-IA-III dated 02.04.2012 stated that the built-up area is the covered area on all the floors put together including basement (s) and other service areas which are proposed in the building/construction project. The Environmental Clearance was granted to the promoter company prior to the issuance of the said circular as such it may be possible that earlier the Non-FAR area has not been taken into account while calculating total built up area.

The project proponent has applied fresh proposal after including FAR & Non-FAR area as 65,343.18 sqm. The project is covered under activity 8 (a) and category B (2) of the schedule appended with the EIA notification dated 14.09.2006. The Project proponent has submitted the Form-1 and additional documents. The project proponent has deposited processing fee of Rs.27,920/- through UTR no. BARBX21337449434 dated 04.12.2021 and Rs. 1,02,768/- vide UTR No. BARBV22094566633 dated 04.04.2022, as checked and verified by the supporting staff of SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

Punjab Pollution Control Board through e-mail dated 05.05.2022 has sent the latest construction status report with details as under:

"It is intimated that Housing project namely "Amritsar One" located at Shubham Enclave besides NH-1, Amritsar, Punjab email dated 13.04.2022 received in this office. Accordingly, the site was visited by officer of this office on 04.05.2022 and the following points observed as under: -

1. *The project is constructed in plot area of 32,685.28 sq.m.* ***65% construction activities has been done within the project as per earlier granted environmental clearance. Further, no construction activity is being carried out presently.***

2. *As per the boundary limits site shown by the Project Proponent during the visit, Maple Leaf Towers, Shubham Enclave & Sri Guru Teg Bahardur College are located on West side;NH-1 is located at a distance of approx. 300 m on the southern side &a distributary is flowing at a distance of approx. 200 m in Eastern side of the project.*

3. *The project proponent has already obtained CLU vide No. MTP/1588 dated 27.07.2018 issued by Municipal Town Planner, Amritsar and the site is suitable for setting up of such type of projects."*

Deliberations during 221st meeting of SEAC held on 27.05.2022.
The meeting was attended by the following:

(i) Sh. Kapil Sachdeva, Director, M/s ATM Estates Pvt. Ltd.
(ii) Mr. Sandeep Garg, EIA Coordinator, M/s Eco laboratories Pvt Ltd.
(iii) Mrs. Simranjit Kaur, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.

SEAC allowed the Environmental Consultant of the Project Proponent to present the salient features of the project. He, thereafter, presented the case as under:

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	Group Housing project namely "Amritsar One" at Shubham Enclave, Besides NH-1, Amritsar, Punjab by M/s ATM Estates Pvt. Ltd.
1.2	Proposal:	SIA/PB/MIS/243835/2021
1.3	Location of Project:	Shubham Enclave, Besides NH-1, Amritsar, Punjab.
1.4	Details of Land area & Built up area:	Site area: 32,685.28 sq.m. (3.27 ha) Built up area: 65,343.18 sq. m
1.5	Category under EIA notification dated 14.09.2006	The project falls under activity 8(a) - 'Building & Construction Project' Category B2 as the built-up area of project is 65,343.18 sq. m.
1.6	Cost of the project	Rs. 137.46 Crores
2.	**Site Suitability Characteristics**	
2.1	Whether project is suitable as per the provisions of Master Plan:	The project falls under residential zone as per the Master Plan of Amritsar. Copy of Master Plan showing project location is enclosed along with application.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	A copy of letter issued by the Municipal Town Planner, Municipal Corporation, Amritsar vide no. MTP/1588 dated 27.07.2018, wherein it has been mentioned that the CLU for the group housing project "ATM Estate Private Limited" has been approved vide Commissioner order dated 12.10.2010 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. A self-declaration in this regard submitted.
3.2	Whether the project required clearance under the provisions of Punjab Land	Not submitted any details in this regard.

	Preservation Act (PLPA), 1900.	
3.3	Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:	There is no wildlife or bird sanctuary within 10 km of project location. Thus, Wildlife Clearance is not required. A self-declaration in this regard submitted.
3.5	Whether the project falls within the influence of Eco-Sensitive Zone or not.	No, there is no wildlife or bird sanctuary within 10 km of project location
3.6	Green area requirement and proposed No. of trees:	Total green area: 5,350.989 sq. m (@ 16.37%) Proposed trees to be planted: 425 nos.
4.	**Configuration & Population**	
4.1	Configuration 484 residential flats including EWS flats and club building. The configuration details are as under:	

Tower Name	**Type of DU**	**No. of DUs**	**FAR (in sq.m.)**	**Non-FAR (in sq.m.)**	**Built-up Area (in sq.m.)**
Tower 1	Type A	63	6208.402	2209.386	8417.788
Tower 2	Type A & Type B	72 + 72 = 144	14842.79	4630.152	19472.94
Tower 3	Type C & Type G (Duplex Penthouse)	64 + 8 = 72	9117.766	3167.333	12285.1
Tower 4	Type D & Type H (Duplex Penthouse)	32 + 4 = 36	5033.231	1815.439	6848.67
Tower 5	Type L (EWS)	49	1513.883	100.5809	1614.464
-	Type E	120	13827.137	2055.5133	15882.65
Club	-	-	821.5613	-	821.5613
		484 Flats	**51,364.77**	**13,978.4**	**65,343.18**

4.2	Population details	2,722 persons (residential population @ 2420 & Staff and Visitors @ 302)
5	**Water**	

5.1	Total fresh water requirement:	220 KLD
5.2	Source:	Borewell
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) Details thereof	Acknowledgement of the application for abstraction of 220 KLD ground water from PWRDA has been submitted**.**
5.4	Total wastewater generation:	266 KLD
5.5	Treatment methodology: (STP capacity, technology & components)	300 KLD capacity based on MBBR technology followed by UF Plant.
5.6	Treated wastewater for flushing purpose:	113 KLD
5.7	Treated wastewater for green area in summer, winter and rainy season:	Proposal for utilizing the below mentioned quantity of treated wastewater for development of green area of 5350.989 sqm. Summer: 29 KLD Winter: 10 KLD Monsoon: 3 KLD
5.8	Utilization/Disposal of excess treated wastewater.	Proposal for discharging the below mentioned excess quantity of treated wastewater into sewer. Summer: 119 KLD Winter: 138 KLD Monsoon: 145 KLD The Project Proponent has submitted a copy of permission letter issued by Municipal Town Planner, Amritsar vide letter dated 09.09.2010, wherein it has been mentioned that the Project Proponent has to deposit the sewerage sharing charges before connecting the sewer of the proposed site with MC Sewer, Amritsar. The Department has no objection for connection of sewer after deposition of requisite fee.
5.9	Cumulative Details:	

Sr. No.	**Total water Requirement**	**Total wastewater generated**	**Treated wastewater**	**Flushing water requirement**	**Green area requirement**	**Into sewer**
1.	333 KLD	266 KLD	261 KLD	113 KLD	Summer: 29 KLD Winter: 10 KLD Monsoon: 3 KLD	Summer: 119 KLD Winter: 138 KLD Monsoon: 145 KLD

<table>
<tr><td>5.10</td><td>Rain water harvesting proposal:</td><td>Total 6 nos. of Rain water recharging pits are proposed for rain water recharging within the project premises. Out of which, 3 has already been constructed 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 2 nos. of DG set of capacity 500 KVA & 125 KVA have been proposed for power back up.</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>1,028 kg/day (2420 X 0.4 Kg/capita/day= 968 kg/day & 302 X 0.2 kg/capita/day= 60.4 kg/day</td></tr>
<tr><td>7.2</td><td>Details of management and disposal of solid waste (Mechanical Composter/Compost pits)</td><td>During Operation Phase, about 1,028 kg/day @ 0.4 kg/capita/day for residential & @ 0.2 kg/capita/day for floating/visitors) of solid waste will be generated. The solid waste shall be duly segregated into biodegradable and non-biodegradable components. Biodegradable waste will be managed by installation of Mechanical Composter of capacity 500 kg and manure generated will be utilized within the project for landscaping. Inert waste will be disposed at our own cost to approved dumping site or disposal site of MC, Amritsar. While, domestic hazardous waste will be handed over to authorized vendors approved by PPCB.</td></tr>
<tr><td>7.5</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 sold 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 requirement for the project will be 2,750 KW.</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>Solar panels have been proposed on the roof top of the building. The project will generate 250 KW of power generation.</td></tr>
<tr><td>8.3</td><td>Details of activities under Environment Management Plan.</td><td>Mr. Kapil Sachdeva (Director) of M/s ATM Estates Pvt. Ltd. will be responsible for implementation of Environment Management Plan (EMP).
<table>
<tr><th>Sl. No.</th><th>Details</th><th>Capital Cost (In Lacs)</th><th>Recurring Cost (Lacs/annum)</th></tr>
<tr><td>1.</td><td>During Construction phase</td><td>264</td><td>13</td></tr>
<tr><td>2.</td><td>During Operation phase</td><td>-</td><td>19</td></tr>
</table>
Expenditure on typical Environmental Measures in the remaining construction Phase
<table>
<tr><th>Description</th><th>Capital Rs. Lakhs</th><th>Recurring Cost Rs. Lakhs/annum</th></tr>
</table>
</td></tr>
</table>

Waste Water Management (STP of 300 KLD, MBBR-UF)	50	3
Air & Noise Pollution Management: (Tarpaulin sheets, Acoustics enclosures for DG sets).	10	1
Landscaping	10	1
Rainwater Recharging (3 pits)	10	1
Environmental Monitoring	4	4
Solid Waste Management (including mechanical composter of size 500 kg)	30	2
Energy Conservation Measures (Solar lighting, CFL & solar panel system)	150	1
TOTAL	**264 Lakhs**	**13 Lakhs**

Expenditure on typical Environmental Measures During Operation Phase

Description	**Recurring Cost (Rs. In Lakhs/annum)**
Waste water Management (STP of 300 KLD, MBBR-UF)	5
Air & Noise Pollution Management (Tarpaulin sheets, Acoustics enclosures for DG sets).	0.5
Landscaping	3
Rainwater Recharging (6 pits)	1.5
Environmental Monitoring	4
Solid Waste Management (including mechanical composter of size 500 kg)	3
Miscellaneous	2
TOTAL	**Rs. 19 Lakhs**

The Committee noted that the project was granted Environmental Clearance for construction of group housing project in the total land area of 3.27 ha. having built up area of 51383.45 sqm in the year 2011 and now, the Project Proponent has again come for obtaining Environmental Clearance in the year 2022 after span of 11 years. The Committee asked the Project Proponent to explain the reasons for non-completion of the project till date.

The Project Proponent apprised the Committee that due to financial constrains, the project could not be completed in time and at present only structural work pertaining to the project has been completed. The Committee noted the same.

Thereafter, the Committee perused the construction status report submitted by the Project Proponent wherein, it has been mentioned that 65 % of the construction activity has been completed at site. The Committee asked the Project Proponent to submit the compliance pertaining to development of green area within the project and show the number of trees planted at site so far. The Project Proponent apprised the Committee that he has not planted any of the tree. The Committee asked the Project Proponent to submit concrete and definite plan for development of green area, installation of STP and construction of rain water harvesting pits. In this regard, the Project Proponent has submitted an undertaking vide letter dated 27.05.2022 to the effect that 50% of green cover shall be developed within the project premises by 30.09.2022 and the construction pertaining to STP shall be completed by 30.09.2023 and 3 number of rain water harvesting pits shall be constructed by 30.09.2023. The SEAC took the undertaking submitted by the promoter company on record.

The Committee was satisfied with the presentation and reply given by the Project Proponent and after detailed deliberations, SEAC decided to award **'Silver Grading'** to the project proposal and to forward the application of the project proponent to SEIAA with the recommendation to grant Environmental Clearance for establishment of group housing project namely “Amritsar One” located at Shubham Enclave besides NH-1, Amritsar Punjab by M/s ATM Estate Pvt. Ltd., subject to the following conditions.

I. Statutory compliances:

i) The project proponent shall obtain all necessary clearances/ permissions from all relevant agencies including the town planning authority before commencement of work. All the construction shall be done in accordance with the local building bye laws.

ii) The approval of the Competent Authority shall be obtained for the structural safety of buildings due to earthquakes, adequacy of 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 water requirement for the project shall be 333 KLD, out of which 220 KLD shall be met through own tube well. Total freshwater use shall not exceed the proposed requirement as provided in the project details and other relevant details as under:

Sr. No.	Total water Requirement	Total wastewater generated	Treated wastewater	Flushing water requirement	Green area requirement	Into sewer
1.	333 KLD	266 KLD	261 KLD	113 KLD	Summer: 29 KLD Winter: 10 KLD Monsoon: 3 KLD	Summer: 119 KLD Winter: 138 KLD Monsoon: 145 KLD

a) 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.

b) During the construction phase, the project proponent shall ensure that the wastewater generated from the labour quarters/toilets shall be treated and disposed of in an environment-friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately designed septic tanks for the treatment of such wastewater and treated effluents shall be utilized for green area/plantation.

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

vi) The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA along with six-monthly monitoring reports.

vii) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration, and the balance of water available. This should be specified separately for groundwater and surface water sources, ensuring that there is no impact on other users.

viii) At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape, etc. would be considered as pervious surface.

ix) Dual pipe plumbing shall be installed for supplying fresh water for drinking, cooking and bathing, etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, air conditioning etc.

x) Installation of R.O. plants in the project will be discouraged in order to reduce water wastage in form of RO reject. However, in case the requirement of installing RO plant is unavoidable, the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component or in a common place in the project premises.

xi) The project proponent shall also adopt the new/innovative technologies like low water discharging taps (faucet with aerators) /urinals with electronic sensor system /waterless urinals/twin flush cisterns/ sensor-based alarm system for overhead water storage tanks and make them a part of the environmental management plans/building plans so as to reduce the water consumption/groundwater abstraction.

xii) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/other purposes etc. and will colour code the different pipelines carrying water/wastewater from different sources / treated wastewater as follows:

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

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

xiv) The CGWA provisions on rainwater harvesting should be followed. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of the plot area and a storage capacity of a minimum of one day of the total freshwater requirement shall be provided. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. As per the proposal submitted by the project proponent, 06 no. recharging pits will be provided for groundwater recharging as per the CGWB norms. The groundwater shall not be withdrawn without approval from the Competent Authority.

xv) All recharge should be limited to shallow aquifers.

xvi) No groundwater shall be used during the construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and should be available at the site.

xvii) Any groundwater dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any groundwater abstraction or dewatering.

xviii) The quantity of freshwater usage, water recycling, and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC, and SEIAA along with six-monthly Monitoring reports.

xix) Sewage shall be treated in the STP with tertiary treatment by providing ultra-filtration Technology. STP shall be installed in a phased manner viz a viz in the module system designed in such a way so as to efficiently treat the wastewater with an increase in its quantity due to rise in occupancy. The treated effluent from STP shall be recycled/reused for flushing and gardening. No treated water shall be disposed of into the municipal stormwater drain.

xx) No sewage or untreated effluent would be discharged through stormwater drains. Onsite sewage treatment with a capacity to treat 100% wastewater will be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry / SEIAA before the project is commissioned for operation. Treated wastewater shall be reused on-site for landscape, flushing, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by the Ministry of Environment, Forest, and Climate Change. Natural treatment systems shall be promoted.

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

xxii) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed of as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

i) Ambient noise levels shall conform to the commercial area both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during the construction phase. Adequate measures shall be made to reduce noise levels during the construction phase, so as to conform to the stipulated standards by CPCB/SPCB.

ii) A noise level survey shall be carried out as per the prescribed guidelines and a report in this regard shall be submitted to the Regional Officer of the Ministry as a part of a six-monthly compliance report.

iii) Acoustic enclosures for DG sets, noise barriers for ground-run bays, earplugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

i) Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.

ii) Outdoor and common area lighting shall be LED.

iii) Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased 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) 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.

iii) 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.

iv) Organic waste compost/ Vermiculture pit/ Organic Waste Converter/Mechanical Composter within the premises must be installed for treatment and disposal of the solid waste.

v) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie-up must be done with the authorized recyclers.

vi) 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.

vii) 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.

viii) 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.

ix) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.

x) 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 425 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. The Environmental Management Plan (EMP) of the proposed project as per the details given in Table below:

Construction Phase:

Sr. No.	Description	Capital Rs. Lakhs	Recurring Cost Rs. Lakhs/annum
1.	Waste Water Management (STP of 300 KLD, MBBR-UF)	50	3
2.	Air & Noise Pollution Management: (Tarpaulin sheets, Acoustics enclosures for DG sets).	10	1
3.	Landscaping	10	1
4.	Rainwater Recharging (3 pits)	10	1
5.	Environmental Monitoring	4	4
6.	Solid Waste Management (including mechanical composter of size 500 kg)	30	2
7.	Energy Conservation Measures (Solar lighting, CFL & solar panel system)	150	1
	TOTAL	**264 Lakhs**	**13 Lakhs**

Operation Phase

Sr. No.	Description	Recurring Cost (Rs. In Lakhs/annum)
1.	Waste water Management (STP of 300 KLD, MBBR-UF)	5
2.	Air & Noise Pollution Management (Tarpaulin sheets, Acoustics enclosures for DG sets).	0.5
3.	Landscaping	3
4.	Rainwater Recharging (6 pits)	1.5
5.	Environmental Monitoring	4
6.	Solid Waste Management (including mechanical composter of size 500 kg)	3
7.	Miscellaneous	2
	TOTAL	**Rs. 19 Lakhs**

XI. Validity

i. This environmental clearance will be valid for a period of 10 (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 Bio-Medical wastes shall be managed in accordance with the Bio-Medical Waste Management Rules 2016 as amended from time to time.

v) 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.

vi) 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.

vii) This Environmental Clearance is liable to be revoked without any further notice to the Project Proponent in case of failure to comply with condition (vi) above.

Item No.221.11: Application for TOR for Expansion of existing Steel Manufacturing Unit Namely M/s P.P Castings located at Village Kumbh, Amloh Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab (Proposal No. SIA/PB/IND/76783/2022).

The industry has applied for issuance of TOR for expansion of the existing Steel Manufacturing Unit Namely M/s P.P Castings for increasing the production capacity to 300 TPD of Billets/ Ingots or Strips/ Patra with 2 IF's of capacity 10 TPH each & rolling mill located at Village Kumbh, Amloh Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab.

The industry was granted Consent to Operate under the provisions of the Water Act 1974 & Air Act 1981 for the manufacturing of 84 MTD of steel ingots which is valid up to 30.09.2023. The Project is covered under Schedule 3(a) & Category 'B1' as per EIA Notification, 2006.

The industry has submitted the Form I, Pre-feasibility report and other additional documents on online portal. The cost of project is Rs. 19.8713 Crore. The industry has deposited fees Rs. 49,545/- (25%) vide NEFT No. PUNBH2126606278 dated 06.05.2022 as verified by the supporting staff of SEIAA.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

Deliberations during 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Sh. Vijay Data, Partner, M/s P.P Casting.

(ii) Mr. Sandeep Garg, EIA Coordinator, M/s Eco laboratories Pvt Ltd.

(iii) Mrs. Simranjit Kaur, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.

SEAC allowed the Environmental Consultant of the Project Proponent to present the salient features of the project. He, thereafter, presented the case as under:

S. No.	Description	Details
1	**Basic Details**	
1.1	Name of Industry & Project Proponent:	M/s P.P Castings Project Proponent: Mr. Vijay Data S/o Sh. Shiv Charan Data (Partner)
1.2	Proposal:	SIA/PB/IND/76783/2022

<table>
<tr><td>1.3</td><td>Location of Industry:</td><td>Village Kumbh, Amloh Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab</td></tr>
<tr><td>1.4</td><td>Details of Land area & Built up area:</td><td>The breakup of the project area is given below:
<table><tr><th>S. No.</th><th>Description</th><th>Area (in sq.m.)</th></tr><tr><td>1.</td><td>Total area of the plot</td><td>18,736.78</td></tr><tr><td>2.</td><td>Area left for road widening</td><td>961.53</td></tr><tr><td>3.</td><td>Net area of the project</td><td>17,775.25</td></tr><tr><td>(a)</td><td>Shed covered area</td><td>5,035.31</td></tr><tr><td>(b)</td><td>Office Block covered area</td><td>228.53</td></tr><tr><td>(c)</td><td>Stores, Canteen, Toilet block & Security room, etc covered area</td><td>250.37</td></tr><tr><td>(d)</td><td>Plantation area</td><td>5,871.43</td></tr><tr><td>(e)</td><td>Road area</td><td>3,298.04</td></tr><tr><td>(f)</td><td>Parking area</td><td>1,092.62</td></tr><tr><td>(g)</td><td>Other Utility area</td><td>1,998.95</td></tr><tr><td colspan="2">Total area</td><td>18,736.78 sq.m. (4.63 acres)</td></tr></table></td></tr>
<tr><td>1.5</td><td>Category under EIA notification dated 14.09.2006</td><td>3(a): Metallurgical Industries (ferrous & non ferrous).</td></tr>
<tr><td>1.6</td><td>Cost of the project</td><td>Existing project cost: Rs. 15.50 Crores
Proposed Cost: Rs. 4.31 Crores
Total Cost after expansion: Rs. 19.81 Crores.</td></tr>
<tr><td>1.7</td><td>Compliance of Public Hearing Proceedings</td><td>To be submitted with final EIA report.</td></tr>
<tr><td>2.</td><td colspan="2">Site Suitability Characteristics</td></tr>
<tr><td>2.1</td><td>Whether site of the industry is suitable as per the provisions of Master Plan:</td><td>Yes, the site of the industry falls within the Industrial Zone as per Master Plan of Mandi Gobindgarh.</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>Master Plan showing project location has been submitted with the report. Further, a copy of letter issued by DTP vide no. 127 dated 31.01.2022 regarding land use classification, wherein it has been mentioned that the site of the industry falls in the industrial zone as per the notified Master Plan of Mandi Gobindgarh submitted.</td></tr>
<tr><td>3</td><td colspan="2">Forest, Wildlife and Green Area</td></tr>
<tr><td>3.1</td><td>Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:</td><td>No clearance is required under the provisions of Forest (Conservation) Act 1980. A self-declaration in this regard submitted.</td></tr>
</table>

3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No PLPA land is involved.
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife sanctuary falls within the 10 km radius of the project. Bir Bhadson Wildlife Sanctuary is located at a distance of 12.5 km from the project site. Therefore, no clearance is required under the provisions of Wildlife Protection Act 1972. A self-declaration in this regard submitted.
3.4	Distance of the industry from the Critically Polluted Area.	Nearest Critically Polluted area is Ludhiana located at a distance of approx. 46 km from the project.
3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. *(Specify the distance from the nearest Eco sensitive zone)*	No; as no Eco-sensitive zone falls within 10 km of the project location.
3.6	Green area requirement and proposed No. of trees:	Green area of 5,871.43 sq.m. **(@ 31.3%) has been proposed within the project premises.** Approx. 881 no. of trees shall be planted.

4. Raw Material & Products:

4.1 **Raw material details:**

Sr. No.	Raw Material	Existing	Proposed	Total after expansion
1	Scrap & Ferro Alloys	89 TPD	231 TPD	320 TPD

Products Details:

Sr. No.	Product Name	Existing	Proposed	Total after expansion
1	Billets/Ingots or Strips/Patra	84 TPD	216 TPD	300 TPD

Machinery Details:

Sr. No.	Equipment's/Machinery	Existing	Proposed	Total
1.	Induction Furnace	1 (7 TPH capacity)	1 (10 TPH)	2 (7 TPH to be replaced with 10 TPH and one new 10 TPH shall be installed after expansion)
2.	Rolling Mill	1	--	1

4.2	Population details	No. of existing workers = 30 workers No. of additional workers to be hired = 50 workers Total No. of workers after expansion = 80 workers

		No workers residing within the project premises.
5	**Water**	
5.1	Total fresh water requirement:	**Existing scheme:** Total water requirement for the existing project is 12 KLD. Out of this, 10 KLD is the make-up water demand for cooling purpose & 2 KLD is domestic water demand. **Proposed scheme:** After expansion, the total water requirement of the project will be 72 KLD which will be met through existing borewells. Out of this, 36 KLD will be make-up water demand for cooling purpose, 4 KLD will be the domestic water demand & 32 KLD will be green area water demand for green area of 5,871.43 sq.m.
5.2	Source:	Ground water (2 No. borewells)
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) *Details thereof*	No, permission will be obtained from PWRDA for abstraction of ground water and copy of the same will be submitted with EIA report.
5.4	Total water requirement for domestic purpose:	Domestic water requirement for the existing unit is 2 KLD and after expansion the requirement will be 4 KLD.
5.4.1	*Total wastewater generation:*	Approx. 1.6 KLD of domestic wastewater is being generated from the unit. After expansion, 3.2 KLD of domestic wastewater will be generated.
5.4.2	*Treatment methodology for domestic wastewater:* *(STP capacity, technology & components)*	Approx. 1.6 KLD of domestic effluent is being generated from the existing project which is being treated in septic tank provided within the project premises. After expansion, the quantity of domestic effluent is estimated to be 3.2 KLD which will be treated in proposed STP of capacity 5 KLD to be installed within project premises. Treated water will be reused for horticulture purpose.
5.5	Total water requirement for industrial purpose:	Make-up water demand for cooling purpose for the existing unit is 10 KLD. After expansion, 36 KLD will be make-up water demand for cooling purpose.
5.5.1	*Total effluent generation:*	No industrial effluent is being generated and even after expansion, no industrial effluent will be generated.
5.5.2	Treatment methodology for industrial wastewater: *(ETP capacity, technology & components)*	Not applicable, as no industrial effluent will be generated.

<table>
<tr><td>5.6</td><td>Details of utilization of treated wastewater into green area in summer, winter and rainy season:</td><td>The treated wastewater will be reused for horticulture purpose.
<table>
<tr><th>S. No.</th><th>Season</th><th>Flushing purposes (KLD)</th><th>Green area sq.m (KLD)</th><th>Cooling purpose (KLD)</th><th>MC Sewer (KLD)</th></tr>
<tr><td>1.</td><td>Summer</td><td>-</td><td>3</td><td>-</td><td>-</td></tr>
<tr><td>2.</td><td>Winter</td><td>-</td><td>3</td><td>-</td><td>-</td></tr>
<tr><td>3.</td><td>Monsoon</td><td>-</td><td>3</td><td>-</td><td>-</td></tr>
</table></td></tr>
<tr><td>5.7</td><td>Utilization/Disposal of excess treated wastewater.</td><td>Not applicable, as treated water will be reused for horticulture purpose within project premises.</td></tr>
<tr><td>5.8</td><td colspan="2">Cumulative Details:
<table>
<tr><th>Total water Requirement</th><th>Total wastewater generated</th><th>Treated wastewater</th><th>Treated wastewater reuse</th><th>Green area requirement</th><th>Into sewer</th></tr>
<tr><td>72 KLD
• Domestic water demand 4 KLD
• Make-up water demand for cooling purpose 36 KLD
• Green area water demand 32 KLD</td><td>3.2 KLD</td><td>3 KLD</td><td>3 KLD (Reused for horticulture purpose)</td><td>32 KLD
(for Summer season @ 5.5 lt/sq.m./day)</td><td>0</td></tr>
</table></td></tr>
<tr><td>5.9</td><td>Rain water harvesting proposal:</td><td>No rain water recharging pits has been proposed within project premises. Thus, rain water recharging will be done outside of project premises by adopting pond. NOC will be obtained from Sarpanch of the Village regarding pond adoption and copy of the same along with detailed rain water recharging proposal will be submitted with EIA report.</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>Source of air pollution are given below:
<table>
<tr><th>S. No.</th><th>Machinery</th><th>Description</th></tr>
<tr><td>1.</td><td>Induction Furnaces</td><td>2 × 10 TPH</td></tr>
<tr><td>2.</td><td>DG sets</td><td>125 KVA & 350 KVA</td></tr>
</table></td></tr>
</table>

6.2	Measures to be adopted to contain particulate emission/Air Pollution	The details of the sources of pollution and its mitigation measures are given below:

S. No.	Source	Capacity	Chimney Height	APCD
1.	Induction Furnaces	2 × 10 TPH	30 m each	Side Suction Hood followed by Pulse Jet Bag Filter of capacity 50,000 CMH on each IF
2.	DG Sets	125 KVA & 350 KVA	3 m & 5 m	Canopy shall be provided

The Committee observed that the industry falls in the industrial zone as per the Master Plan of Mandi Gobindgarh. After detailed deliberations, SEAC decided to categorize the project under Activity 3(a); B-1 with public consultation as required for the project. The Committee recommended the case to SEIAA to approve the Terms of Reference for Expansion of existing Steel Manufacturing Unit Namely M/s P.P Castings located at Village Kumbh, Amloh Road, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the following TORs:

STANDARD TERMS OF REFERENCE

I) <u>Executive Summary</u>

Report in about 8-10 pages incorporating the following:

i) Introduction of the Project and Promoter Company.

ii) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EC.

iii) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)

iv) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.

v) Measures for mitigating the impact on the environment and mode of discharge or disposal.

vi) Capital cost of the project, estimated time of completion

vii) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./private land, status of is acquisition, nearby (in 2-3 km.) water body,

population, within 10 km other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)

viii) Baseline environmental data - air quality, surface and groundwater quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.

ix) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk

x) Likely impact of the project on air, water, land, flora-fauna and nearby population

xi) Emergency preparedness plan in case of natural or in plant emergencies

xii) Issues raised during public hearing (if applicable) and response given

xiii) CSR/CER plan with proposed expenditure.

xiv) Occupational Health Measures

xv) Post Project monitoring plan

xvi) Synopsis of the project (Available on https://decc.punjab.gov.in/)

II) Introduction

i) Details of the EIA Consultant including NABET accreditation

ii) Information about the project proponent

iii) Importance and benefits of the project

III) Project Description

i) Cost of project and time of completion.

ii) Products with capacities for the proposed project.

iii) If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.

iv) List of raw materials required and their source along with mode of transportation.

v) Other chemicals and materials required with quantities and storage capacities.

vi) Details of Emission, effluents, hazardous waste generation and their management.

vii) Requirement of water (breakup for induction and rolling mill), power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).

viii) Process description along with major equipment and machineries, process flow sheet (quantitative) from raw material to products to be provided

ix) Hazard identification and details of proposed safety systems.

x) In case of Expansion/modernization proposals:

a) Status of compliance of Consent to Operate for the ongoing /existing operation of the project from SPCB shall be attached with the EIA-EMP report.

b) In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

IV) <u>Site Details</u>

i) Location of the project site covering village, Taluka / Tehsil, District and State, Justification for selecting the site, whether other sites were considered. Copy of Master Plan indicating a land use pattern of the site is in conformity of proposals of Master Plan shall be attached with EIA report.

ii) A top sheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (Including all eco-sensitive areas and environmentally sensitive places)

iii) Details w.r.t. option analysis for selection of site.

iv) Co-ordinates (lat-long) of all four corners of the site.

v) Google map-Earth downloaded of the project site

vi) Layout maps indicating existing unit as well as proposed unit indicating storage area of raw material, finished products, greenbelt area with marking of tree, Location of STP/ETP, Solid waste storage area, Parking space, Firefighting equipment layout, First aid room, Location of Tube wells, DG Sets & Transformers and any other utilities

vii) If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

viii) Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

ix) Land use break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc. shall be included. (not required for industrial area)

x) A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.

xi) Geological features and Geo-hydrological status of the study area shall be included.

xii) Details of Drainage of the project up to 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xiii) Status of acquisition of land. lf acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xiv) R&R details in respect of land in line with state Government policy

V) <u>Forest and wildlife related issues (if applicable):</u>

i) Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (If applicable).

ii) Land use map based on High resolution satellite imagery (OPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).

iii) Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv) The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

v) Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.

vi) Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

vii) In case, no diversion of Forest land, Eco Sensitive area/ National park/Wild Life Sanctuary within 10 Km then the project proponent will submit the NOC from the concerned territorial / wildlife DFO's that no Forest/PLPA/Wildlife areas are involved, at the time of submission of EIA report

VI) <u>Environmental Status</u>

i) Determination of atmospheric inversion level at the project site and site specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii) AAQ data (except monsoon) at 8 locations for PM 10, PM2.5, S02, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre dominant wind direction, population zone and sensitive receptors including reserved forests.

iii) Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

iv) Surface water quality of nearby River (100m upstream and downstream) and other surface drains at eight locations as per CPCB/MoEF& CC guidelines.

v) Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF& CC.

vi) Groundwater monitoring at minimum at 8 locations shall be included.

vii) Noise levels monitoring at 8 locations within the study area.

viii) Soil Characteristic as per CPCB guidelines.

ix) Traffic feasibility / serviceability study for at least 5 days based on Indian Standard Codes. Further it shall also include the details of cross section of the road on which industry is located, vehicles movement w.r.t. the industry, traffic load of other vehicles on the road incorporating the haulage time for the vehicles for loading/unloading within the premises and parking requirement to avoid the traffic congestions on the link and adjoining roads. Traffic study shall be conducted considering the traffic of the industries located in the vicinity.

x) Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

xi) Socio-economic status of the study area.

xii) Baseline data should not be older than 3 years.

VII) <u>Impact Assessment and Environment Management Plan</u>

i) Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modeling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be well assessed. Details of the model used and the input data used for modeling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii) Water Quality modelling.

iii) Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.

iv) A note on treatment, recycling and reuse of wastewater from different plant operations, extent for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under EPA Rules.

v) Details of stack emission and action plan for control of emissions to meet standards.

vi) Measures for fugitive emission control

vii) Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii) Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix) Action plan for the green belt development in 33 % area with not less than 1,500 trees per hectares giving details of species, width of plantation, planting schedule, post plantation maintenance plan for 3 years shall be included. The green belt shall be around the boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x) Action plan for rainwater harvesting measures at alternative sites shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the groundwater and also to use for the various activities to conserve freshwater and reduce the water requirement from other sources.

xi) Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

xii) Action plan for post-project environmental monitoring shall be submitted.

xiii) Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with the District Disaster Management Plan.

VIII) <u>Occupational health</u>

i) Details of existing Occupational & Safety Hazards. What are the exposure levels of above-mentioned hazards and whether they are within the Permissible Exposure Level (PEL)? If these are not within PEL, what measures the company has adopted to keep them within PEL so that the health of the workers can be preserved.

ii) Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre-designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analysed data of above-mentioned parameters as per age, sex, duration of exposure and department wise.

iii) Annual report of the health status of workers with special reference to Occupational Health and Safety.

iv) Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.

IX) <u>Corporate Environment Policy</u>

i) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

ii) Does the Environment Policy prescribe for standard operating processes/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? If so, it may be detailed in the EIA.

iii) What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv) Does the company have a system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

v) Details regarding infrastructure facilities such as sanitation, fuel, restroom, etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during the operation phase.

X) <u>Enterprise Social Commitment (ESC)</u>

i) The project proponent shall propose activities in lieu of Corporate Environmental Responsibility (CER) in the Environmental Management Plan as per the provisions of OM dated 25.02.2021 issued by the MoEF&CC.

ii) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

iii) A tabular chart with index for points wise compliance of above TORs.

XI) <u>STANDARDISED SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR INDUCTION/ ARC FURNACES/CUPOLA FURNACES 5TPH OR MORE</u>

i) Details of proposed layout clearly demarcating existing & proposed features of the project within the plant.

ii) Total no. of furnaces & details including capacity of each furnace.

iii) Detail of the mechanical shredder to reduce the size of the raw material.

iv) Complete process flow diagram describing each unit, its processes, and operations, along with material and energy inputs and outputs (material and energy balance).

v) Details on the design and manufacturing process for all the units.

vi) Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other ·recycled materials.

vii) Details on the requirement of raw materials, its source, and storage at the plant.

viii) Details on the requirement of energy and water along with its source and authorization from the concerned department. Location of water intake and outfall points (with coordinates).

ix) Details on toxic metal content in the waste material and its composition and end-use (particularly of slag).

x) Details on toxic content (TCLP), composition and end-use of chrome slag. Details on the recovery of the Ferro chrome from the slag and its proper disposal.

XII) <u>ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC AND SEIAA</u>

i) Public consultation is required for the project as it is not located in a notified industrial park/estate.

ii) The project proponent shall submit complete proposal for the management of ash at the time of submission of EIA report for obtaining environmental clearance

iii) Submit proof of ownership of land (existing owner) such as copy of latest Jamabandi (not more than one month old) and credible document showing status of land acquisition w.r.t. project site (as prescribed in OM dated 07.10.2014 issued by MoEF)

iv) Submit dully filled prescribed field data sheets and analysis reports along with exact location of sampling / monitoring point marked on the layout map. Also submit the status of approvals of Laboratories.

v) Submit cost of the project duly certified by Chartered Engineer/ Approved valuer / Chartered Accountant. In the absence of above, the project proponent may submit self-certified detail of cost of the project mentioning the cost of Land, building, infrastructure and plant and machinery.

vi) Certificate from the concerned authority w.r.t the location of protected areas as notified under the Wildlife Protection Act, 1972 within 5 km radius from the boundary of the project site.

vii) Certificate from the Department of Town & Country Planning or concerned authorities to support the claim made by project proponent that the project site is located in the industrial zone as per the provisions of Master Plan of Town/City in the jurisdiction of which the project site is located or the project proponent shall submit the Change of land use of the project site for total land area.

viii) Compliance of 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.

ix) Necessary permissions from the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA)/concerned authority for the abstraction of groundwater for the existing requirements as well as for the expanded unit. In case of not allowing such permission by the concerned authority for the abstraction of additional groundwater for the expanded project, the project proponent shall propose alternative arrangements to meet out the additional water requirements. It shall be ensured that: -

a) In the projects where groundwater is proposed as a water source, the project proponent shall apply to the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC) if applicable.

b) Approval /permission of the CGWA/SGWA shall be obtained before drawing groundwater for the project activities.

c) In the absence of approval, submit a copy of acknowledgment along with a set of application filed to CGWA /Competent Authority for obtaining permission for the abstraction of groundwater

x) Minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

xi) STP for treatment of wastewater & re-utilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09/08/2018 issued by the MoEF&CC for such units.

xii) Reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.

xiii) In case of any acid pickling activity, the spent acid/effluents generated from such activities shall be utilized through authorized re-processors for converting the same into useful by-products like $FeSO_4$ etc. An agreement to this effect shall be made with the authorized agencies.

xiv) Adequate area to be reserved and marked on the layout plan for the green belt as per the conditions laid down by the MoEF&CC as per the Standard EC Conditions prescribed for Induction/ Electric Arc Furnace & Rolling Mills circulated vide OM dated 09/08/2018.

xv) Detailed study report along with calculation for reserving land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking incorporating the time

required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.

xvi) Action plan for the compliance of standard operating procedures and up-gradation of suction and treatment arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.

xvii) Compliance of standard operating procedures and up-gradation of suction/treatment systems for the control of secondary emissions within the time frame prescribed by the State Pollution Control Board. Similar action is to be implemented in the proposed expansion project.

xviii) Whole of the vehicle movement area as well as the approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.

xix) The vehicles to be used for loading/unloading purposes shall not be parked along the roadside so as to avoid the traffic congestion and dedicated parking place to be provided for the same.

xx) Adopt green technologies to conserve the water and energy including shearing/cutting / bundling machines. Also, to provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.

xxi) Use of natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.

xxii) Submit compliance w.r.t. condition no.II [(i) & (iii)] subtitled as "Air Quality Monitoring & Preservation" regarding continuous emission monitoring system and continuous ambient air quality monitoring as prescribed in the Standard EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills issued by the MoEF&CC, New Delhi vide OM dated 09/08/2018.

xxiii) Examine and submit the proposal for: -

a) Recovery of iron from slag before disposing of it.

b) Identify the areas for utilization of slag in a scientific manner and explore its usage in cement/construction industry/manufacturing of pavers & tiles/road laying etc.

c) Recovery of precious metals like Zinc, lead and iron etc. from the APCD dust (Hazardous waste) through authorized re-processor.

xxiv) Air Pollution Control Arrangement details shall be provided as below:

Plant /Unit	Pollutants	Qty generated	Method used to Control /specifications (attach Separate Sheet to furnish Details)	Number of units planned & Capacity	Budget	Estimated Post Control Qty Pollutant	
						Per Unit	Per day

xxv) Submit compliance regarding the installation of Pulse jet bag filter with offline cleaning technology as APCD with the proposed induction furnace.

xxvi) List the species with heavy foliage, broad leaves and wide canopy cover. The landscape planning should include plantation of native species. Water intensive and/or invasive species should not be used for landscaping.

xxvii) The project proponent shall collect the baseline data for three months (except monsoon season) as per MOEF&CC office memorandum dated 29.08.2017. For this, monitoring data of M/s Devbhoomi Casting Pvt. Ltd. falls within the buffer zone of the project collected during the period from 1st October 2021 to 31st December, 2021 may be utilized. Besides this, one-month additional study shall be undertaken at the project site from 15th January 2022 to 15th February, 2022.

XIII) <u>General Guidelines:</u>

(i) The EIA document shall be printed on both sides.

(ii) All documents shall be properly indexed, page numbered.

(iii) Period/date of data collection shall be clearly indicated.

(iv) The letter/application for environmental clearance shall quote the SEIAA file No. and also attach a copy of the letter.

(v) The copy of the letter received from SEIAA shall be also attached as an annexure to the final EIA-EMP Report.

(vi) The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report.

Item No. 221.12: Application for amendment in Environmental Clearance under EIA Notification dated 14.09.2006 of "City of Dream 115" at Kharar, District SAS Nagar by M/s GK Residency Private Limited (Proposal No. SIA/PB/MIS/268583/2022).

The Project Proponent was granted Environmental Clearance vide letter number DECC/SEIAA/MS/2019/336 dated 02.04.2019 under EIA notification dated 14.09.2006 for the establishment of residential group housing project in the land area of 5.02 acres having built up area 41054 sqm. The Environmental Clearance was granted for the construction of 412 number of flats and 10 number of shops.

The Project Proponent has filed an application for amendment in Environmental Clearance and submitted Form-4 along with the revised layout plan approved by Municipal Engineer, Municipal Council, Kharar and copy of compliance report of the conditions imposed in the earlier Environmental Clearance granted. As per the revised layout plan, the total number of flats to be constructed shall be 414 and 10 number of shops having built up area of 41174 sqm.

The Project Proponent undertake that the information given in the application are true to the best of his knowledge & belief and no facts have been concealed thereof. Further, he is aware that in case, if any information submitted was found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at their risk and cost.

Deliberations during 221st meeting of SEAC held on 27.05.2022.

The meeting was attended by the following:

(i) Mr. Vikas Sharma, Legal Advisor.
(ii) Mr. Deepak Gupta, Environmental Advisor.
(iii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(iv) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of Project Proponent to present the salient features of the project seeking amendment in Environmental Clearance. Thereafter, Environmental Consultant presented the environmental parameters as per earlier and present proposal as under: -

Sr. No.	Description	As per earlier EC	As per amendment proposal
1.	Number of Flats	412	414
2.	Built up area	41054 sqm	41174 sqm
3.	Population	2060 persons	2090 Persons
4.	Domestic water requirement	279 KLD	280 KLD

5.	Flushing requirement	64 KLD	93 KLD

After deliberations, SEAC decided to forward the case to SEIAA with the recommendation to grant amendment in Environmental Clearance issued earlier vide letter No. DECC/SEIAA/MS/2019/336 dated 02.04.2019.