

**Proceedings of 232<sup>nd</sup> meeting of State Expert Appraisal Committee (SEAC) held on 14.11.2022 (Monday) at 11:00 AM in the Conference Hall No. 2, MGSIPA Complex, Sector-26, Chandigarh.**

The following were present:

<b>Sr. No.</b>	<b>Name of SEAC Member</b>	<b>Designation in SEAC</b>
1.	Er. Yogesh Gupta	Chairman
2.	Sh. Pardeep Garg	Member Secretary
3.	Sh. K.L Malhotra	Member
4.	Sh. Anil Kumar Gupta	Member
5.	Sh. Parminder Singh Bhogal	Member
6.	Sh. Sunil Mittal	Member
7.	Sh. Satish Kumar Gupta	Member
8.	Sh. Pawan Krishan	Member

**Item No. 01: Confirmation of the proceedings of 231<sup>st</sup> meeting of State Level Expert Appraisal Committee held on 28.10.2022.**

The proceedings of 230<sup>th</sup> meeting of State Level Expert Appraisal Committee held on 08.10.2022 were prepared and circulated through email on 12.10.2022. Following Comments were received from Sh. K.L Malhotra, Member (SEAC) vide email dated 02.11.2022.

- (i) The Project Proponent has proposed to spend 75 lacs on tree plantation in only 0.5 acres. It was pointed out during the meeting that the PP should give the area where the proposed plantation shall be carried out. Secondly, the expenditure of 75 lacs on a small area of 0.5 acre is highly exaggerated and irrational. This should be got rationalized before sending the case for SEIAA.
- (ii) The rationale for demanding 75 lac of bank guarantee for implementing the remediation plan is not clear in the draft proceedings. I think that even the amount of the remediation plan needs to be deliberated again in the light of the Govt. of India's circular dated 1.5.2018.
- (iii) It was also pointed out during the meeting that the consultant and PP has not given the basic parameters of the ponds being proposed for rejuvenation have not been given. This should also be considered.

The Comments were discussed and the pointwise reply of the observations raised by the Member SEAC are as under:

- (i) The Project Proponent has proposed to develop 0.75 acres of the land area in Village Bakarpur for carrying out plantation and develop Mini Forest. The total no of 9105 trees have been proposed to be planted in the said area and total cost to be spent on the plantation shall be Rs 7500000/- which includes the cost for maintenance for three years.
- (ii) The environmental parameters pertaining to Water, soil, Air, Noise & Vibration, Green Belt, RH/OHS etc were considered while assessing the environmental damage done due to construction activity. The total recurring cost assessed after taking cognizance of the aforesaid parameters is Rs 61.3 lacs and total non-recurring cost is Rs 11.16 lacs. Thus, the total damage assessment cost estimated to be Rs 75 lacs.
- (iii) The Project Proponent has submitted the details pertaining to the rejuvenation of pond, wherein, it has been mentioned after treatment, the environmental parameters such as BOD and DO shall meet the prescribed standards of 30 mg/l and >5 mg/l.

SEAC perused the reply & was satisfied with the same. Therefore, SEAC confirmed the proceedings.

**Item No. 02: Action taken on the proceedings of the 231<sup>st</sup> meeting of State Level Expert Appraisal Committee held on 28.10.2022.**

The action taken on the decisions of 231<sup>st</sup> meeting of State Level Expert Appraisal Committee held on 28.10.2022 has been completed. SEAC noted the same.

**Item No. 232.01: Application for Terms of Reference for establishment of residential housing Project “Affordable Group Housing” at Village Qadianwali, Tehsil & District Jalandhar, Punjab by M/s Mexmon Global Developers Private Limited (Proposal No. SIA/PB/INFRA2/401023/2022).**

The Project Proponent has submitted application for obtaining Terms of Reference for establishment of residential housing Project “Affordable Group Housing” at Village Qadianwali, Tehsil & District Jalandhar, Punjab. The total land area of the project is 40,176.492 sqm (9.96 acres) having built up area 1,63,736.845 sqm. The built-up area of the project is more than 1,50,000 sqm as such the project attracts the provisions of category 8(b) of the schedule appended with EIA notification dated 14.09.2006.

The project proponent submitted the Form I, 1A, layout plan approved by Senior Town Planner, Jalandhar and other additional documents along with processing fee amounting to Rs. 40,935/- vide UTR No. N264220158752832 dated 21.09.2022, as checked & verified by the supporting staff SEIAA.

**Deliberations during 232<sup>nd</sup> meeting of SEAC held on 14.11.2022.**

The meeting was attended by the following:

- (i) Sh. Kamaljeet, Project Manager M/s Mexmon Global Developers Private Limited.
- (ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
- (iii) Sh. Sandeep Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of the project proponent to present the reply to the observations made by it in the meeting of SEAC as under:

Sr. No.	Description	Details
<b>1</b>	<b>Basic Details</b>	
1.1	Name of Project & Project Proponent:	Residential Project “AFFORDABLE GROUP HOUSING” by M/s Mexmon Global Developers Pvt. Ltd.
1.2	Proposal:	SIA/PB/INFRA2/401023/2022
1.3	Location of Industry:	Village Qadianwali, Tehsil & District Jalandhar, Punjab
1.4	Details of Land area & built-up area:	Total Plot area –40,176.492 sqm Built up area- 1,63,736.845 sqm
1.5	Category under EIA notification dated 14.09.2006	8 (b) and B1
1.6	Cost of the project	Rs. 200 Crores
<b>2.</b>	<b>Site Suitability Characteristics</b>	
2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	Permission for CLU accorded to the Project Proponent.

2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	Permission for Change of Land use for the land measuring 9.96 acres at village Kadian wala, Tehsil Jalandhar-1, District Jalandhar for residential purpose is granted vide memo no.- CA-JDA-CLU-2022/542 dated 28.03.2022 by the Chief Administrator, JDA, Jalandhar. A copy of the said letter submitted.																															
<b>3</b>	<b>Forest, Wildlife and Green Area</b>																																
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No Forest/PLPA land is involved. An undertaking in this regard submitted.																															
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, the Project Proponent does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900. An undertaking in this regard submitted.																															
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	The project does not require clearance under the provisions of Wildlife Protection Act 1972. An undertaking in this regard submitted.																															
3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. <i>(Specify the distance from the nearest Eco sensitive zone)</i>	Not applicable.																															
3.6	Green area requirement and proposed No. of trees:	Green area: 10522.40 sqm (as per the approved layout plan) Proposed number of trees- 502																															
<b>4.</b>	<b>Configuration &amp; Population</b>																																
4.1	Proposal & Configuration	<table border="1"> <thead> <tr> <th>Sr. NO.</th> <th>PARTICULARS</th> <th>AREA (m<sup>2</sup>)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Total Plot Area</td> <td>40,176.492 (as per approved layout plan)</td> </tr> </tbody> </table> <p><b>Tower Details</b></p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of the Tower</th> <th>No. of Flats</th> <th>No. of Tower</th> <th>No. of Floors</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Tower A, B, C, D (Typical)3BHK</td> <td>608</td> <td>4</td> <td>S+19</td> </tr> <tr> <td>2.</td> <td>Tower E, F, G, H (Typical) 2BHK</td> <td>448</td> <td>4</td> <td>S+14</td> </tr> <tr> <td>3.</td> <td>Tower I 1BHK</td> <td>104</td> <td>1</td> <td>S+13</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>1160</b></td> <td><b>9</b></td> <td></td> </tr> </tbody> </table> <p><b>Built Up Area</b></p>	Sr. NO.	PARTICULARS	AREA (m <sup>2</sup> )	1	Total Plot Area	40,176.492 (as per approved layout plan)	Sr. No.	Name of the Tower	No. of Flats	No. of Tower	No. of Floors	1.	Tower A, B, C, D (Typical)3BHK	608	4	S+19	2.	Tower E, F, G, H (Typical) 2BHK	448	4	S+14	3.	Tower I 1BHK	104	1	S+13	<b>Total</b>		<b>1160</b>	<b>9</b>	
Sr. NO.	PARTICULARS	AREA (m <sup>2</sup> )																															
1	Total Plot Area	40,176.492 (as per approved layout plan)																															
Sr. No.	Name of the Tower	No. of Flats	No. of Tower	No. of Floors																													
1.	Tower A, B, C, D (Typical)3BHK	608	4	S+19																													
2.	Tower E, F, G, H (Typical) 2BHK	448	4	S+14																													
3.	Tower I 1BHK	104	1	S+13																													
<b>Total</b>		<b>1160</b>	<b>9</b>																														

		<b>Sr. No.</b>	<b>Building Block Name</b>	<b>No. of Flats</b>	<b>No. of Tower</b>	<b>Total Built up Area</b>
		1.	Tower A, B, C, D (Typical)3BHK	608	4	81,276.751
		2.	Tower E, F, G, H (Typical) 2BHK	448	4	46,980.760
		3.	Tower I 1BHK	104	1	6,534.13
		4.	Area Under Podium	-	-	13,809.36
		5.	Area Under basement	-	-	15,135.839
		<b>Total</b>		<b>1160</b>	<b>9</b>	<b>1,63,736.84</b>
4.2	Population details	6,970				
<b>5</b>	<b>Water</b>					
5.1	Total water requirement:	819 KLD				
5.2	Source:	Tubewell				
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) <i>Details thereof</i>	Application for obtaining permission for abstraction of ground water is filed to PWRDA.				
5.4	Total water requirement for domestic purpose:	Total Water requirement for domestic purpose – 819 KLD				
5.4.1	<i>Total wastewater generation:</i>	655 KLD				
5.4.2	<i>Treatment methodology for domestic wastewater: (STP capacity, technology &amp; components)</i>	STP of capacity 920 KLD shall be installed for treatment of the domestic effluent.				
5.5	Rain water harvesting proposal:	10 No. pits shall be provided.				

During meeting, the project proponent apprised the Committee that the public sewer is located at a distance of 500 m from the project site and the excess treated wastewater shall be discharged into that sewer after laying down the sewer line at its own cost. The Committee asked the Project Proponent to prepare the detailed plan for utilization of treated waste water generated from the project viz-a-viz disposal of treated sewage into public sewer.

After detailed deliberations, the Committee decided to forward the application of the project proponent to SEIAA with the recommendation to grant Terms of References (ToR) for the establishment of residential housing Project "Affordable Group Housing" at Village Qadianwali, Tehsil & District Jalandhar, Punjab subject to the standard ToRs along with specific ToRs as under:

**Specific ToR**

- (i) The project proponent shall make necessary arrangements for disposal of excess treated waste water into city sewer.
- (ii) The project proponent shall obtain necessary permissions from the Competent Authorities for discharging the excess treated waste water into sewer.

**Standard TOR**

1. Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
2. Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/ villages and present status of such activities.
3. Examine baseline environmental quality along with projected incremental load due to the project.
4. Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
5. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project
6. Submit the details of the trees to be felled for the project.
7. Submit the present land use and permission required for any conversion such as forest, agriculture etc.
8. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
9. Ground water classification as per the Central Ground Water Authority.
10. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.

11. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.
12. Examine soil characteristics and depth of ground water table for rainwater harvesting.
13. Examine details of solid waste generation treatment and its disposal.
14. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
15. DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
16. Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city
17. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
18. Examine the details of transport of materials for construction which should include source and availability.
19. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
20. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
21. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
22. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
23. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Townships>".

**Item No. 232.02: Application for Terms of Reference for expansion in the existing Steel Manufacturing Unit having capacity 2,10,000 TPA of Rounds, Square, TMT Bars, Flats, Patra, Angle, Channels with rolling mill of 25Ton/hr by addition of 01 No. Induction Furnace of 25TPH, Ladle Refining Furnace of 25TPH for production of 1,31,250TPA of Steel Ingots/Billets at Village Kumbra, near Truck Stand, Mandi Gobindgarh, Tehsil Amloh, District Fatehgarh Sahib by M/s Kuber Concast (Proposal No. SIA/PB/IND1/405285/2022).**

The industry is an existing Steel Rolling Mill having production capacity of 25TPH of MS squares, flats, angles, channels, rounds, bars, TMT, structures, etc. The industry was granted consent to operate under the provisions of the Water Act, 1974 and Air Act 1981 which is valid upto 31.12.2036.

The industry has submitted application for obtaining Terms of Reference for expansion in the Steel Manufacturing Unit having existing capacity of 2,10,000 TPA of Rounds, Square, TMT Bars, Flats, Patra, Angle, Channels with rolling mill of 25Ton/hr by addition of 01 No. Induction Furnace of 25TPH, Ladle Refining Furnace of 25TPH for production of 1,31,250TPA of Steel Ingots/Billets.

The industry submitted the Application Form, pre-feasibility report, valid consent to operate and other documents as per the checklist approved by SEIAA. The total cost after expansion shall be Rs. 32.54 Cr. The industry has deposited Rs. 81350/- vide UTR No. BARBX22304865268 dated 31.10.2022 as checked & verified by the supporting staff SEIAA.

**Deliberations during 232<sup>nd</sup> meeting of SEAC held on 14.11.2022.**

The meeting was attended by the following:

- (i) Sh. Navdeep Kumar, General Manager M/s Kuber Concast
- (ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
- (iii) Sh. Sandeep Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of the project proponent to present the reply to the observations made by it in the meeting of SEAC as under:

Sr. No.	Description	Details
<b>1</b>	<b>Basic Details</b>	
1.1	Name of Project & Project Proponent:	M/s Kuber Concast, Village Kumbra, near Truck Stand, Mandi Gobindgarh, Tehsil Amloh, District Fatehgarh Sahib Sh. Rakesh Kumar, Partner (Partnership deed submitted)
1.2	Proposal:	SIA/PB/IND1/405285/2022
1.3	Location of Industry:	Village-Kumbra, Near truck stand, Mandi Gobindgarh Tehsil- Amloh, District Fatehgarh Sahib, Punjab.



1.4	Details of Land area & Built up area:	Total land area – 5.014 acre or 20,287sqm
1.5	Category under EIA notification dated 14.09.2006	B1
1.6	Cost of the project	Rs. 32.54 Crores
1.7	Compliance of Public Hearing Proceedings	NA
<b>2.</b>	<b>Site Suitability Characteristics</b>	
2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	The site of the industry is located in the industrial zone as per the Masterplan of Mandi Gobindgarh
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	Permission for change of Land use vide Memo no. 2254 – STP(S)/SS-11(FI) dated 23/12/2009 has been accorded to the industry for the total land area measuring 4.484 acres has been obtained.  Further, permission for remaining land area of 0.526 acre located at village Kumbhra, Tehsil Amloh, District Fatehgarh Sahib accorded vide memo no. 1920-STP(s)99-11(FI) dated 26.07.2016.
<b>3</b>	<b>Forest, Wildlife and Green Area</b>	
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No Forest land is involved. An undertaking in this regard submitted
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, PLPA land is involved. Undertaking for the same submitted.
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife area 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
3.4	Distance of the industry from the Critically Polluted Area.	Not applicable

3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. <i>(Specify the distance from the nearest Eco sensitive zone)</i>	Site does not fall in eco-sensitive zone.																									
<b>4.</b>	<b>Configuration &amp; Population</b>																										
4.1	Proposal & Configuration	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Equipment's / Machinery</th> <th>Existing</th> <th>Proposed</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Induction Furnace</td> <td>Nil</td> <td>1X25TPH</td> <td>1X25TPH</td> </tr> <tr> <td>2.</td> <td>Ladle Refining Furnace</td> <td>Nil</td> <td>1X25TPH</td> <td>1X25TPH</td> </tr> <tr> <td>3.</td> <td>Concast</td> <td>Nil</td> <td>1X25TPH</td> <td>1X25TPH</td> </tr> <tr> <td>4.</td> <td>Rolling mill</td> <td>1X25Ton/hr</td> <td>Nil</td> <td>1X25Ton/hr</td> </tr> </tbody> </table>	Sr. No.	Equipment's / Machinery	Existing	Proposed	Total	1.	Induction Furnace	Nil	1X25TPH	1X25TPH	2.	Ladle Refining Furnace	Nil	1X25TPH	1X25TPH	3.	Concast	Nil	1X25TPH	1X25TPH	4.	Rolling mill	1X25Ton/hr	Nil	1X25Ton/hr
Sr. No.	Equipment's / Machinery	Existing	Proposed	Total																							
1.	Induction Furnace	Nil	1X25TPH	1X25TPH																							
2.	Ladle Refining Furnace	Nil	1X25TPH	1X25TPH																							
3.	Concast	Nil	1X25TPH	1X25TPH																							
4.	Rolling mill	1X25Ton/hr	Nil	1X25Ton/hr																							
4.2	Population details	Employment- 150																									
<b>5</b>	<b>Water</b>																										
5.1	Total fresh water requirement:	Total Water requirement- 37 KLD Domestic water demand- 7.0KLD																									
5.2	Source:	Tubewell																									
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) <i>Details thereof</i>	Application for permission for abstraction of ground water is filed to PWRDA.																									
5.4	Total water requirement for domestic purpose:	Total Water requirement for domestic purpose – 7.0 KLD																									
5.4.1	<i>Total wastewater generation:</i>	Effluent Generation-5.6 KLD																									

5.4.2	<i>Treatment methodology for domestic wastewater: (STP capacity, technology &amp; components)</i>	Treatment for domestic wastewater- STP of 10 KLD and used for plantation								
5.5	Total water requirement for industrial purpose:	NA								
5.5.1	<i>Total effluent generation:</i>	NA								
5.5.2	<i>Treatment methodology for industrial wastewater: (ETP capacity, technology &amp; components)</i>	NA								
5.6	Utilization/Disposal of excess treated wastewater.	Treated waste water from STP will be used for plantation within the industrial premises								
5.8	Cumulative Details:									
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Total water Requirement</th> <th>Domestic water</th> <th>Total wastewater generated</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>37 KLD</td> <td>7.0KLD</td> <td>5.6 KLD</td> </tr> </tbody> </table>		Sr. No.	Total water Requirement	Domestic water	Total wastewater generated	1.	37 KLD	7.0KLD	5.6 KLD
Sr. No.	Total water Requirement	Domestic water	Total wastewater generated							
1.	37 KLD	7.0KLD	5.6 KLD							
6	<b>Air</b>									
6.1	Details of Air Polluting machinery:	D.G. set, Induction Furnace, Ladle Refining Furnace								
6.2	Measures to be adopted to contain particulate emission/Air Pollution	D.G. Set: - Canopy equipped DG set with adequate height will be installed Induction Furnace & Ladle Refining Furnace: - Side suction hood, Pulse jet bag filter with offline cleaning technology.								
7	<b>Waste Management</b>									
7.1	Total quantity of solid waste generation	Slag- 12TPD.								

7.2	Details of management and disposal of solid waste (Mechanical Composter/Compost pits)	Will be sent to cement manufacturing unit/manufacturers of tiles/paver under proper agreement.
7.3	Details of management of Hazardous Waste.	APCD Dust- 0.2TPD will be sent to TSDF site/M/s Madhav Alloys
8	<b>Energy Saving &amp; EMP</b>	
8.1	Power Consumption:	16500 KW
8.2	Energy saving measures:	LEDs will be used

During meeting, the Committee perused the KML file of the project and observed that the industry is an existing unit and substantial construction activity has already been carried out at the proposed site. The Committee asked the industry as to whether it shall be possible to develop 33% of green area within the industrial premises or not. In this regard, the project proponent gave an assurance to the Committee that out of the total land area of the industry, 33% of the land area shall be developed into green area within the project site. The Committee noted the same.

After detailed deliberations, the Committee decided to forward the application of the industry to SEIAA with the recommendation to grant Terms of References (ToR) for the expansion in the existing Steel rolling mill Unit by addition of 01 Induction Furnace, Ladle Refining Furnace for production of 1,31,250TPA of Steel Ingots/Billets at Village Kumbra, near Truck Stand, Mandi Gobindgarh, Tehsil Amluh, District Fatehgarh Sahib subject to the standard ToR along with specific ToR as under:

### **Specific ToR**

- (i) At least 33% of green area out of the total land area shall be developed within the industry.

### **Standard ToR**

#### **1. Introduction**

- i. Background about the project
- ii. Need of the project
- iii. Purpose of the EIA study
- iv. Scope of the EIA study

#### **2. Project description**

##### **A. Site Details**

- i. Location of the project site covering village, Taluka/Tehsil, District and State.
- ii. Site accessibility
- iii. A digital toposheet in pdf or shape file compatible to google earth of the study area of radius of 10km and site location preferably on 1:50,000 scale. (including all eco-sensitive areas and environmentally sensitive places).
- iv. Latest High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc., along with delineation of plant boundary co-ordinates. Area must include at least 100m all around the project location.
- v. Environment settings of the site and its surrounding along with map.
- vi. A list of major industries with name, products and distance from plant site within study area (10km radius) and the location of the industries shall be depicted in the study area map.
- vii. In case if the project site is in vicinity of the water body, 50 meters from the edge of the water body towards the site shall be treated as no development/construction zone. If it's near the wetland, Guidelines for implementing Wetlands (Conservation and Management) Rules, 2017 may be followed.
- viii. In case if the project site is in vicinity of the river, the industry shall not be located within the river flood plain corresponding to one in 25 years flood, as certified by concerned District Magistrate/Executive Engineer from State Water Resources Department (or) any other officer authorized by the State Government for this purpose as per the provisions contained in the MoEF&CC Office Memorandum dated 14/02/2022.
- ix. Type of land, land use of the project site.
- x. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process as per the MoEF&CC O.M. dated 7/10/2014 shall be furnished.
- xi. Engineering layout of the area with dimensions depicting existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

**B. Forest and wildlife related issues (if applicable):**

- i. Status of Forest Clearance for the use of forest land shall be submitted.
- ii. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife if the project site located within notified Eco-Sensitive Zone, 10km radius of national park/sanctuary wherein final ESZ notification is not in place as per MoEF&CC Office Memorandum dated 8/8/2019.
- iii. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, Eco-sensitive Zone and Eco-sensitive areas, the project proponent shall submit the map duly authenticated by Divisional Forest Officer showing the distance between the project site and the said areas.
- iv. Wildlife Conservation Plan duly authenticated by the Competent Authority of the State Government for conservation of Schedule I fauna, if any exists in the study area.

**C. Salient features of the project**

- i. Products with capacities in Tons per Annum for the proposed project.
- ii. If expansion project, status of implementation of existing project, details of existing/proposed

- products with production capacities in Tons per Annum.
- iii. Site preparatory activities.
  - iv. List of raw materials required and their source along with mode of transportation.
  - v. Other than raw materials, other chemicals and materials required with quantities and storage capacities.
  - vi. Manufacturing process details along with process flow diagram of proposed units.
  - vii. Consolidated materials and energy balance for the project.
  - viii. Total requirement of surface/ ground water and power with their respective sources, status of approval.
  - ix. Water balance diagram
  - x. Details of Emission, effluents, hazardous waste generation and mode of disposal during construction as well as operation phase.
  - xi. Man-power requirement.
  - xii. Cost of project and scheduled time of completion.
  - xiii. Brief on present status of compliance (Expansion/modernization proposals)
    - a. Cumulative Environment Impact Assessment for the existing as well as the proposed expansion/modernization shall be carried out.
    - b. In case of ground water drawl for the existing unit, action plan for phasing out of ground water abstraction in next three years except for domestic purposes and shall switch over to 100 % use of surface water from nearby source.
    - c. Copy of all the Environment Clearance(s) including Amendments thereto obtained for the project from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environment clearances including amendments shall be provided.
    - d. In case the existing project has not obtained Environment 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 Regional Office of the SPCB shall be submitted.

### 3. Description of the Environment

- i. Study period
- ii. Approach and methodology for data collection as furnished below.

Attributes	Sampling		Remarks
	Network	Frequency	
<b>A. Air Environment</b>			
Micro- Meteorological . Wind speed (Hourly) . Wind direction . Dry bulb temperature . Wet bulb temperature . Relative humidity . Rainfall	Minimum 1 site in the project impact area	1 hourly continuous	. IS 5182 Part 1-20 . Site specific primary data is essential . secondary data from IMD, New Delhi . CPCB guidelines to be considered.

<ul style="list-style-type: none"> <li>. Solar radiation</li> <li>. Cloud cover</li> <li>. Environmental Lapse Rate</li> </ul>			
Pollutants <ul style="list-style-type: none"> <li>. PM2.5</li> <li>. PM10</li> <li>. SO2</li> <li>. NOx</li> <li>. CO</li> <li>. HC</li> <li>. Other parameters relevant to the project and topography of the area</li> </ul>	At least 8-12 locations	As per National Ambient Air Quality Standards, CPCB Notification.	<ul style="list-style-type: none"> <li>. Sampling as per CPCB guidelines</li> <li>. Collection of AAQ data (except in monsoon season)</li> <li>. Locations of various stations for different parameters should be related to the characteristic properties of the parameters.</li> <li>. The monitoring stations shall be based on the NAAQM standards as per GSR 826(E) dated 16/11/2009 and take into account the predominant wind direction, population zone and sensitive receptors including reserved forests,</li> <li>. Raw data of all AAQ measurement for 12 weeks of all stations as</li> </ul>
<b>Attributes</b>	<b>Sampling</b>		<b>Remarks</b> per frequency given in the NAAQM Notification of 16/11/2009 along with min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as can annexure to the EIA Report.
	<b>Network</b>	<b>Frequency</b>	
<b>B. Noise</b>			
<ul style="list-style-type: none"> <li>. Hourly equivalent noise levels</li> </ul>	At least 8-12 locations	As per CPCB norms	
<b>C. Water</b>			
Parameters for water quality <ul style="list-style-type: none"> <li>. pH, temp, turbidity, magnesium hardness, total alkalinity, chloride, sulphate, nitrate, fluoride, sodium, potassium, salinity</li> <li>. Total nitrogen, total phosphorus, DO, BOD, COD, Phenol</li> <li>. Heavy metals</li> </ul>	Samples for water quality should be collected and analyzed as per: <ul style="list-style-type: none"> <li>. IS: 2488 (Part 1-5) methods for sampling and testing of Industrial effluents</li> <li>. Standard methods for examination of water and wastewater analysis published by American Public Health Association.</li> </ul>		

<ul style="list-style-type: none"> <li>. Total coliforms, faecal coliforms</li> <li>. Phyto plankton</li> <li>. Zoo plankton</li> </ul>			
<p>For River Bodies</p> <ul style="list-style-type: none"> <li>. Total Carbon</li> <li>. pH</li> <li>. Dissolved Oxygen</li> <li>. Biological Oxygen Demand</li> <li>. Free NH4</li> <li>. Boron</li> <li>. Sodium Absorption Ratio</li> <li>. Electrical</li> </ul>	<ul style="list-style-type: none"> <li>. Surface water quality of the nearest River (60m upstream and downstream) and other surface water</li> </ul>	<ul style="list-style-type: none"> <li>. Yield of water sources to be measured during critical season</li> <li>. Standard methodology for collection of surface water (BIS standards)</li> </ul>	
<b>Attributes</b>	<b>Sampling</b>		<b>Remarks</b>
	<b>Network</b>	<b>Frequency</b>	
Conductivity	bodies		
For Ground Water	<ul style="list-style-type: none"> <li>. Ground water monitoring data should be collected at minimum of 8 locations (from existing wells/tube wells/ existing current records) from the study area and shall be included.</li> </ul>		
<b>D. Traffic Study</b>			
<ul style="list-style-type: none"> <li>. Type of vehicles</li> <li>. Frequency of vehicles for transportation of materials</li> <li>. Additional traffic due to proposed project</li> <li>. Parking arrangement</li> </ul>			
<b>E. Land Environment</b>			
<p>Soil</p> <ul style="list-style-type: none"> <li>. Particle size distribution</li> <li>. Texture</li> <li>. pH</li> <li>. Electrical conductivity</li> <li>. Cation exchange capacity</li> <li>. Alkali metals</li> <li>. Sodium Absorption Ratio (SAR)</li> <li>. Permeability</li> <li>. Water holding capacity</li> <li>. Porosity</li> </ul>	Soil samples be collected as per BIS specifications		
<p>Land use/ Landscape</p> <ul style="list-style-type: none"> <li>. Location code</li> <li>. Total project area</li> <li>. Topography</li> <li>. Drainage (natural)</li> <li>. Cultivated, forest, plantations, water bodies, roads and settlements</li> </ul>			
<b>F. Biological Environment</b>			



Attributes	Sampling		Remarks
	Network	Frequency	
Aquaric . Primary productivity . Aquatic weeds . Enumeration of phyto plankton, zoo plankton and benthos . Fisheries . Diversity indices . Trophic levels . Rare and endangered species . Marine parks/ Sanctuaries/ closed areas/ coastal regulation zone (CRZ) Terrestrial . Vegetation-species list, economic importance, forest produce, medicinal value . Importance value index (IVI) of trees . Fauna . Avi fauna . Rare and endangered species . Sanctuaries/ National park/ Biosphere reserve . Migratory routes			. 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. Indicator species which indicate ecological and environment degradation should be identified and included to clearly state whether the proposed project would result in to any adverse effect on any species. . Samples to collect from upstream and downstream of discharge point, nearby tributaries at downstream, and also from dug wells close to activity site. . For forest studies, direction of wind should be considered while selecting forests. . Secondary data to collect from Government offices, NGOs, published literature.
<b>F. socio-economic</b>			
. Demographic structure . Infrastructure resource base . Economic resource base . Health status: Morbidity pattern . Cultural and aesthetic attributes			. Socio-economic survey is based on proportionate, stratified and random sampling method. . Primary data collection through questionnaire . Secondary data from census records, statistical hard books, topo sheets, health records and relevant official records available with Govt. Agencies

Attributes	Sampling		Remarks
	Network	Frequency	
Education			

- i. Interpretation of each environment attribute shall be enumerated and summarized as given below:
- Ambient air quality
  - Ambient Noise quality
  - Surface water quality

- Ground water quality
- Soil quality
- Biological Environment
- Land use
- Socio-economic environment

**4. Anticipated Environment Impacts and mitigation measures (In case of expansion, cumulative impact assessment shall be carried out)**

- i. Identification of potential impacts in the form of a **matrix** for the construction and operation phase for all the environment components

Activity	Environment	Ecological	Socio-economic
Construction phase			
Operation phase			

- ii. Impact on ambient air quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
  - Operation phase
    - Details of stack emissions from the existing as well as proposed activity.
    - Assessment of ground level concentration of pollutants from the stack emission based on AQIP Modelling The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any along with wind rose map for respective period
    - Impact on ground level concentration, under normal, abnormal and emergency conditions. Measures to handle emergency situations in the event of uncontrolled release of emissions.
- iii. Impact on ambient noise quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
  - Operation phase
- iv. Impact on traffic (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
- Construction phase
  - Operation phase
- v. Impact on soil quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)

- a. Construction phase
- b. Operation phase
- vi. Impact on land use (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- vii. Impact on surface water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- viii. Impact on ground water resource and quality (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- ix. Impact on terrestrial and aquatic habitat (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- x. Impact on socio-economic environment (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase
- xi. Impact on occupational health and safety (Sources; Embedded control measures; Assessment; Mitigation measures; Residual impact)
  - a. Construction phase
  - b. Operation phase

## **5. Analysis of Alternatives (Technology & Site)**

- i. No project scenario
- ii. Site alternative
- iii. Technical and social concerns
- iv. Conclusion

## **6. Environmental Monitoring Program**

- i. Details of the Environment Management Cell
- ii. Performance monitoring schedule for all pollution control devices shall be furnished.
- iii. Corporate Environment Policy
  - a. 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.
  - b. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environment or forest norms / conditions? If so, it may be detailed in the EIA.
  - c. What is the hierarchical system or Administrative order of the company to deal with the environment issues and for ensuring compliance with the environment clearance conditions? Details of this system may be given.
  - d. Does the company have system of reporting of non-compliances / violations of environment 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

- iv. Action plan for post-project environment  
Monitoring matrix:

Activity As	Aspect	Monitoring Parameter	Location	Frequency	Responsibility
Construction phase					
Operation phase					

## 7. Additional Studies

- i. Public consultation details (Entire proceedings as separate annexure along with authenticated English Translation of Public Consultation proceedings).
- ii. Summary of issues raised during public consultation along with action plan to address the same as per MoEF&CC O.M. dated 30/09/2020

S · N O	Physical activity and action plan		Year of implementation (Budget in INR)			Total Expenditure (Rs. in Crores)
	Name of the Activity	Physical Targets	1st	2nd	3rd	

- iii. Risk assessment
  - Methodology
  - Hazard identification
  - Frequency analysis
  - Consequence analysis
  - Risk assessment outcome
- iv. Emergency response and preparedness plan

## 8. Project Benefits

- i. Environment benefits
- ii. Social infrastructure
- iii. Employment and business opportunity
- iv. Other tangible benefits

## 9. Environment Cost Benefit Analysis

- i. Net present value
- ii. Internal rate of return
- iii. Benefit cost ratio
- iv. Cost effectiveness analysis

## **10. Environment Management Plan (Construction and Operation phase)**

- i. Air quality management plan
- ii. Noise quality management plan
- iii. Solid and hazardous waste management plan
- iv. Effluent management plan
- v. Storm water management plan
- vi. Rain water harvesting plan
- vii. Occupational health and safety management plan
- viii. Green belt development plan
- ix. Socio-economic management plan
- x. Wildlife conservation plan (In case of presence of schedule I species)
- xi. Total capital cost and recurring cost/annum for environment pollution control measures shall be included.

## **11. Conclusion of the EIA study**

12. In addition to the above, 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.

### **SPECIAL CONDITIONS-**

1. For Large ISPs, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site. MRL details of project site and RL of nearby sources of water shall be indicated.
2. Plan for the implementation of the recommendations made for the steel plants in the CREP guidelines.
3. Plan for solid wastes utilization
4. Plan for utilization of energy in off gases (coke oven, blast furnace)
5. System of coke quenching adopted with justification.
6. 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.
7. Details on toxic metal content in the waste material and its composition and end use (particularly of slag).
8. Details on toxic content (TCLP), composition and end use of slag.
9. 100 % dolo char generated in the plant shall be used to generate power.
10. Fourth Hole fume extraction system shall be provided for SAF.WHR system shall be installed to recover sensible heat from flue gases of EAF. Provision for installation of jigging and briquetting plant to utilise the fines generated in the process.
11. No tailing pond is permitted for Iron ore slimes. Dewatering and filtration system shall be provided.
12. Emission/effluent norms as per G.S.R 894 (E) dated 4/12/2019.

**Item No. 232.03: Application for Environmental Clearance for Expansion of Group Housing Project namely “Casa Espana” located at Village-Badmajra, Sector 121, Mohali, Punjab by M/s Shiwalik Site Planners Pvt. Ltd (Proposal No. SEIAA/PB/MIS/82060/2022)**

The Project Proponent was granted Environmental Clearance under EIA notification dated 14.09.2006 for the development of commercial project namely “ATS Casa Espana” in Sector 121, Mohali vide letter no. SEIAA/MS/2014/9014 dated 05.02.2014. The Environmental Clearance was granted for the total plot area of 101171.411 sqm (25 acres) having built up area of 194402.741 sqm.

Thereafter, the said Environmental Clearance was transferred in the name of M/s Shivalik site Planners Private Limited vide SEIAA letter no. SEIAA/2018/64 dated 07.01.2019 for the development of Group Housing project namely “Casa Espana” in the total land area of 101171.411 sqm (25 acres) having built up area of 194402.741 sqm.

The Project Proponent was granted Terms of Reference (ToR) for carrying out expansion of the group housing project “Casa Espana” vide letter dated 07.02.2022.

The Project Proponent has applied for Environmental Clearance under EIA notification dated 14.09.2006 for development of group housing project namely “Casa Espana” in the total land area of 101171.411 sqm (25 acres) having built up area of 3,27,021.70 sqm. The Project Proponent has proposed to carryout expansion in such a way that there will be 17 residential towers, 6 row houses, club, commercial, community centre and sports centre. The Project is covered under Category 8(b) of the schedule appended with EIA notification-2006. The Project Proponent has submitted revised layout plan approved from Chief Town Planner; Punjab vide No. 7277CTP (PB) CR-15 dated 25.11.2021. As per the said layout plan the total land area of the project is 25 acres. The Project Proponent has submitted the EIA report inclusive of the compliance of the Terms of reference issued, certified compliance report issued by MoEF&CC and EIA study conducted for the project.

The project proponent submitted Form I, IA EIA report, compliance of ToRs and other additional documents through online portal. The Project Proponent has deposited Rs. 1,32,620/- for the expansion proposal vide UTR No. KKBKH22032722249 dated 01.02.2022, as checked & verified by the supporting staff of SEIAA.

Punjab Pollution Control Board vide letter no. 5315 dated 05.09.2022 has sent the latest construction status report with details as under:

“It is further intimated the proposed site of the subject cited project was visited by officer of the Board on 31/08/2022 and the point wise reply of the comments sought by SEIAA from this officer relating to the propose of the subject cited [project is given as under:

<b>Sr. No.</b>	<b>Reports of point sought by SEIAA</b>	<b>Remarks</b>
<b>1.</b>	<i>Construction status of the proposal</i>	<ol style="list-style-type: none"> <li>1. The proposed site is located at village-Badmajra, Sector 121 adjoining Verka Milk Plant, Distt. S.A.S Nagar.</li> <li>2. The GPS coordinates of the site are 30°43'59"N,76°42'06"E.</li> <li>3. The Proposed site is situated in front of the existing project site. The project proponent has earmarked the front boundary wall if the project with flex hoardings. The project proponent has not started any construction activity at the proposed site.</li> </ol>
<b>2.</b>	<i>Status of physical structures within 500 m radius of the site including the status of industries, drain, river, eco sensitive structure, if any.</i>	<p>The following units are located within 500 m radius of the unit:</p> <ol style="list-style-type: none"> <li>1. No rice sheller/ stone crusher / hot mix plant/ cement grinding unit/ brick kiln exist within 500 mtr from the proposed site.</li> <li>2. There is no jaggery, petroleum outlet exist within 100 mtr of the site.</li> <li>3. There is drain/ nallah/ choe namely Patiala ki Rao exist adjoining the site (i.e, within 50-100 mtr. )</li> <li>4. There is no common bio-medical treatment facility within 500 mtr.</li> <li>5. There is no eco sensitive area within 500 mtr.</li> <li>6. There is no MAH industry existing within 300 mtr</li> <li>7. There is only one air polluting unit namely M/s Verka milk Plant and air polluting source (i.e. chimney of Boiler) exist more than within 250 mtr from the proposed site.</li> </ol>
<b>3.</b>	<i>Whether the site meets with the prescribed criteria for setting up such projects.</i>	<i>The propose site is complying with the sitting guidelines frames by the Government of Punjab for such project.</i>

--	--	--

As mentioned above, the project proponent has started construction work without obtaining the environmental clearance, as such the project proponent has not comply with the Office Memorandum F.no. 22-21/2020-IA.III dated 7/07/2021 issued by MoEF&CC.

It is further intimated that the capacity of the existing terminal STP of Kharar is already short for the present domestic effluent being generated form the area and more effluent load can't be submitted any alternate scheme for the disposal of treated effluent.”

### **Deliberations during 232<sup>nd</sup> meeting of SEIAA held on 14.11.2022.**

The case was considered by the following:

- (i) Mr. Harmanjit Singh Malhotra, M/s Shiwalik Site Planner Private Limited.
- (ii) Mrs. Simranjit Kaur, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.

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

<b>Sr. No.</b>	<b>Description</b>	<b>Details</b>
<b>1</b>	<b>Basic Details</b>	
1.1	Name of Project & Project Proponent	Expansion of Group Housing Project “Casa Espana” located at Village Badmajra, Sector 121, District SAS Nagar (Mohali), Punjab. Mr. Ghansham Sharma (Director)
1.2	Proposal No.	SEIAA/PB/MIS/82060/2022
1.3	Location of Project	Village- Badmajra, Sector 121, Mohali, Distt. S.A.S Nagar, Punjab
1.4	Details of Land area & Built up area	Total Plot Area = 25 acres Total Built up area = 3,27,021.70 m <sup>2</sup>
1.5	Category under EIA notification dated 14.09.2006	The project falls under category 8(b) – “Township & Area Development Projects”; Category B1 as per EIA Notification dated 14 <sup>th</sup> September, 2006 and its subsequent amendments as the total built-up area of the project after expansion will be 3,27,021.39 sq.m.
1.6	Cost of the project	Rs. 1,011.50 Crores
<b>2.</b>	<b>Site Suitability Characteristics</b>	
2.1	Whether project is suitable as per the	Yes, the project falls within residential zone as per Master plan of SAS Nagar. Copy of Master plan of SAS Nagar



	provisions of Master Plan	showing the 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)	Permission for Change of Land Use (CLU) has been issued by Senior Town Planner, Department of Town & Country Planning, Punjab for land measuring 25 acres vide memo no. 1654-STP(S)/SS-11(GR) dated 27.07.2012 in the name of M/s Shivalik Site Planners Private Limited. A copy of said permission submitted.
<b>3</b>	<b>Forest, Wildlife and Green Area</b>	
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. NOC has been issued by DFO vide letter no. 7512 dated 7.01.2013. A copy of NOC issued by DFO submitted.
3.2	Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA), 1900.	No. Project is not covered under PLPA, 1900. NOC has been obtained from DFO vide letter no. 7512 dated 7.01.2013.
3.3	Whether project required clearance under the provisions of Wildlife Protection Act, 1972 or not:	No. City Bird Sanctuary & Sukhna Wildlife Sanctuary are located at distance of approx. 7 km and 15 km from the project location respectively. Thus, project falls outside eco-sensitive zone of the sanctuary. Thus, no wildlife clearance is involved in the project. Undertaking in this regard is attached along with application.
3.4	Whether the project falls within the influence of Eco-Sensitive Zone or not.	No. Project falls outside the eco-sensitive zone of Sukhna Wildlife Sanctuary and City Bird Sanctuary.
3.5	Green area requirement and proposed No. of trees:	Total green area: 27,836.802 sq.m. Out of the total area, 17841.067 sqm (4.4 acres) has been reserved for Karnal Technology and 9995.735 sqm has been reserved for Green area. No. of trees required = 1265 trees Proposed trees to be planted: 1511 trees
<b>4.</b>	<b>Configuration &amp; Population</b>	

4.1	Configuration & Population details:	<p>Total after expansion: 17 Residential Towers, 6 Row Houses, Club, Commercial, Community center &amp; Sports Centre.</p> <p>The comparison between earlier accorded Environmental Clearance, proposed as well as Expansion in EC application attached as <b>Annexure-1</b>.</p>	
<b>5 Water</b>			
5.1	Overall Water Demand and Wastewater generation details:		
Sr. No.	Details	Population / Area	Water Demand (in KLD)
1.	Residential @ 86 lpcd	4,510	388
2.	Visitors @ 15 lpcd	451	7
3.	Floating population @ 45 lpcd	60	3
	Water Requirement		398 KLD
	Flushing water req. (@ 21 lpcd for residential, 10 lpcd for visitors & 20 lpcd for floating)	4,510 + 451 + 60	95 + 5 + 1 = 101 KLD
4.	Net Fresh Water Demand		398 – 101= 297 KLD
5.	Waste water generation (@ 80%)		318 + 12 KLD* = 330 KLD
6.	Treated Sewage (@ 98%)		323 KLD
7.	Total Green Area		27,836.802 sq.m.
	<ul style="list-style-type: none"> <li>Area reserved for Karnal Technology within the project</li> </ul>		17,841.067 sq.m. (4.4 acres)
	<ul style="list-style-type: none"> <li>Remaining Green area water req.</li> </ul>		9,995.735 sq.m. (2.47 acres)
	Summer (@ 5.5 lt./m <sup>2</sup> /day)		55
	Winter (@ 1.8 lt./m <sup>2</sup> /day)		18
	Monsoon (@ 0.5 lt./m <sup>2</sup> /day)		5
<i>Infiltration rate= 200 lt/manhole/day *60=12000 lt</i>			

5.2	Total fresh water requirement:	419 KLD
5.3	Source:	Borewells
5.4	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) <i>Details thereof</i>	A copy of permission letter issued by PWRDA for abstraction of ground water for quantity of 440 KLD through 6 borewells vide permission no. PWRDA/11/2021/L2/270 dated 11.11.2021 submitted.
5.5	Total wastewater generation:	318 KLD
5.6	Treatment methodology: <i>(STP capacity, technology &amp; components)</i>	318 KLD of sewage will be generated from the project which will be treated in existing STP of 450 KLD capacity.
5.7	Treated wastewater for flushing purpose:	101 KLD
5.8	Treated wastewater for green area in summer, winter and rainy season:	Summer: 55 KLD Winter: 18 KLD Monsoon: 5 KLD
5.9	Utilization/Disposal of excess treated wastewater.	Summer: 156 KLD Winter: 193 KLD Monsoon: 217 KLD The excess treated wastewater shall be utilized in the land area of 4.4 acres to be developed as per Karnal Technology.

5.10	Cumulative Details:						
	<b>Sr. No.</b>	<b>Total water Requirement</b>	<b>Total wastewater generated</b>	<b>Treated wastewater</b>	<b>Flushing water requirement</b>	<b>Green area requirement</b>	<b>Excess will be disposed of to area reserved for Karnal Technology (4.4 acres) or to GMADA Sewer</b>
	1.	398 KLD	318 KLD	312 KLD	101 KLD	55 KLD	156 KLD
	<p>*As per the GMADA letter dated 23.10.2013, in connection with disposal of treated wastewater, the Authority has yet to provide trunk sewer w.r.t water supply, sewerage and storm water drainage in the vicinity of the project. The promoter company has to make its own arrangement till the services are laid by GMADA. An EDS in this regard was raised and the Project Proponent informed that the GMADA sewer has been laid up to VR Punjab located on NH 21, Chandigarh to Kharar road, Sector 118, Mohali which is approx. 2 Km from the project location. Further, work for laying of sewer line is in progress in full swing. However, an alternate arrangement for disposal of treated wastewater in the area of 4.4 acres has been reserved within the project for Karnal Technology, till GMADA sewer line is connected to the Terminal Sewerage System.</p>						
5.11	Rain water harvesting proposal:	30 no. of rain water recharging pits with dual bore have been proposed for artificial rain water recharging within the project premises. Out of which, 7 rain water recharging pits has already been constructed within the project.					
6	<b>Air</b>						
6.1	Details of Air Polluting machinery:	5 DG sets of total capacity 4,160 KVA (3 × 1010 KVA + 1 × 630 KVA + 1 × 500 KVA) for essential services such as STP, borewell, etc.					
6.2	Measures to be adopted to contain particulate emission/Air Pollution	DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.					
7	<b>Waste Management</b>						
7.1	Total quantity of solid waste generation	1907 kg/day					
7.2	Details of management and disposal of solid waste (Mechanical	Biodegradable waste will be composted in 2 Mechanical Composters of 500 kg each. Non-biodegradable waste (recyclable waste) will be disposed off through authorized recycler vendors. Inert waste will be dumped to authorized					

	Composter/Compost pits)	dumping site. A separate area of 100 sq.m has been earmarked for solid waste management within the project.																																							
7.3	Details of management of Hazardous Waste.	Hazardous Waste in the form of used oil from DG sets will be generated which will be managed & disposed of to authorized vendors as per the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and its amendments.																																							
8	<b>Energy Saving &amp; EMP</b>																																								
8.1	Power Consumption:	Total power demand after expansion = 4,811.30 KW (or 5,345.89 KVA) Agency: Punjab State Power Corporation Limited (PSPCL).																																							
8.2	Energy saving measures:	LEDs have been proposed instead of CFLs in the project. Further, solar water heaters & solar panels are being proposed within the project premises.																																							
8.3	<p>Details of activities under Environment Management Plan.</p> <p><b>Construction phase:</b></p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Title</th> <th>Capital Cost (Rs. Lakhs)</th> <th>Recurring Cost (Rs. Lakhs/ Annum)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Wastewater Management (2 STPs of 450 KLD and 300 KLD)</td> <td>-- (Rs. 98 Lakhs has been spent on STP of 450 KLD capacity)</td> <td>3</td> </tr> <tr> <td>2.</td> <td>Air &amp; Noise Pollution Management (Acoustic enclosure for DG sets etc.)</td> <td>20 (In addition, Rs.29 Lakhs has been spent)</td> <td>1</td> </tr> <tr> <td>3.</td> <td>Landscaping</td> <td>60 (In addition, Rs.178 Lakhs has been spent)</td> <td>2.5</td> </tr> <tr> <td>4.</td> <td>Rain water recharging (30 Pits)</td> <td>50 (Rs.34 Lakhs has already been spent on construction of 7 pits)</td> <td>2</td> </tr> <tr> <td>5.</td> <td>Environment Monitoring</td> <td>2.5</td> <td>2.5</td> </tr> <tr> <td>6.</td> <td>Solid Waste Management (2 Mechanical Composters of size 500 kg each)</td> <td>16</td> <td>1.5</td> </tr> <tr> <td>7.</td> <td>Energy Efficient measures (Solar lighting, LEDs, Solar Water Heating Systems, Solar Panel, etc.</td> <td>45 (Rs.78 Lakhs has already been spent)</td> <td>2</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>Rs. 193.5 Lakhs</b></td> <td><b>Rs. 14.5 Lakhs/annum</b></td> </tr> </tbody> </table> <p><b>Operation Phase:</b></p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Title</th> <th>Recurring Cost (Rs. Lakhs/ Annum)</th> </tr> </thead> <tbody> </tbody> </table>		S.No.	Title	Capital Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs/ Annum)	1.	Wastewater Management (2 STPs of 450 KLD and 300 KLD)	-- (Rs. 98 Lakhs has been spent on STP of 450 KLD capacity)	3	2.	Air & Noise Pollution Management (Acoustic enclosure for DG sets etc.)	20 (In addition, Rs.29 Lakhs has been spent)	1	3.	Landscaping	60 (In addition, Rs.178 Lakhs has been spent)	2.5	4.	Rain water recharging (30 Pits)	50 (Rs.34 Lakhs has already been spent on construction of 7 pits)	2	5.	Environment Monitoring	2.5	2.5	6.	Solid Waste Management (2 Mechanical Composters of size 500 kg each)	16	1.5	7.	Energy Efficient measures (Solar lighting, LEDs, Solar Water Heating Systems, Solar Panel, etc.	45 (Rs.78 Lakhs has already been spent)	2	<b>Total</b>		<b>Rs. 193.5 Lakhs</b>	<b>Rs. 14.5 Lakhs/annum</b>	S.No.	Title	Recurring Cost (Rs. Lakhs/ Annum)
S.No.	Title	Capital Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs/ Annum)																																						
1.	Wastewater Management (2 STPs of 450 KLD and 300 KLD)	-- (Rs. 98 Lakhs has been spent on STP of 450 KLD capacity)	3																																						
2.	Air & Noise Pollution Management (Acoustic enclosure for DG sets etc.)	20 (In addition, Rs.29 Lakhs has been spent)	1																																						
3.	Landscaping	60 (In addition, Rs.178 Lakhs has been spent)	2.5																																						
4.	Rain water recharging (30 Pits)	50 (Rs.34 Lakhs has already been spent on construction of 7 pits)	2																																						
5.	Environment Monitoring	2.5	2.5																																						
6.	Solid Waste Management (2 Mechanical Composters of size 500 kg each)	16	1.5																																						
7.	Energy Efficient measures (Solar lighting, LEDs, Solar Water Heating Systems, Solar Panel, etc.	45 (Rs.78 Lakhs has already been spent)	2																																						
<b>Total</b>		<b>Rs. 193.5 Lakhs</b>	<b>Rs. 14.5 Lakhs/annum</b>																																						
S.No.	Title	Recurring Cost (Rs. Lakhs/ Annum)																																							

	1.	Waste Water Management (2 STPs of 450 KLD and 300 KLD)	6
	2.	Air & Noise Pollution Management (Acoustic enclosure for DG sets etc.)	1.5
	3.	Landscaping	7
	4.	Rain water recharging (30 Pits)	6
	5.	Environment Monitoring	5
	6.	Solid Waste Management (2 Mechanical Composters of size 500 kg each)	6
	7.	Energy Efficient measures (Solar lighting, LEDs, Solar Water Heating Systems, Solar Panel, etc.)	8
		<b>Total</b>	<b>Rs. 39.5 Lakhs/annum</b>
<b>8.4</b>	<b>CER Activities:</b>		
	<b>Sl. No.</b>	<b>Description</b>	<b>Amount (Rs. in Crores)</b>
	1.	Cleaning & maintenance of seasonal rivulet	4
	2.	Jute bags distribution in nearby villages	0.5
	3.	Scientific support and awareness to local farmers to increase yield of crops and fodder	1.5
	4.	Plantation in Community Areas	2
	5.	Avenue Plantation	1.5
	6.	Solid waste management facilities	0.5
		<b>Total</b>	<b>Rs. 10 Crores</b>

### Annexure-I

S. No.	As per earlier Environmental Clearance								As per revised Proposal						
	Particulars	No. of Floors	No. of Towers	No. of units per Tower	Total No. of DUs	Total Built up area (sq.ft)	Total Built up area constructed	Population	Particulars	No. of Floors	No. of Towers	No. of units per Tower	Total No. of DUs	Total Built-up area (sq.ft)	Population
1	Tower No. 1, 2, 3, 10 & 11	G+25	5	52	260	845,551.250	729,551.250	1,300	Tower No. 1, 2, 3, 10 & 11	G+26	5	52	260	870,278.459	1,300
2	Tower No. 4, 5, 6, 7, 8 & 9	G+25	6	52	312	758,816.720	755,016.720	1,560	Tower No. 4, 5, 6, 7, 8 & 9	G+26	6	52	312	765,211.866	1,560
3	Row House 12, 13, 14 & 15	G+1	4	2	8	67,012.190	6500	40	Row House R1, R2, R3 & R4	B+G+2	4	1	4	29,007.568	20
4	-	-	-	-	-	-	-	-	Tower No. 12	G+26	1	54	54	178,782.811	270

5	-	-	-	-	-	-	-	-	Tower No. 14,15,16, 17&18	G+26	5	54	270	894,186.130	1350	
6	EWS		1	59	59	18,447.330	not started	295	Row House R5 & R6	B+G+2	2	1	2	12,788.516	10	
7	Club					24,236.240	14,593.958	718	Club	B+G	1	1	-	14,593.958	60	
8	-	-	-	-	-	-	-	-	Community Centre	G	1	-	-	5,016.454		
9	-	-	-	-	-	-	-	-	Sports Centre	LB+UB	1	-	-	5,905.394		
10	-	-	-	-	-	-	-	-	Commercial	G	1	-	-	803.699		
11	Gate House					322.130	100.000	-	Gate (G-01)	G	1	-	-	100.000	-	
12	-	-	-	-	-	-	-	-	Gate (G-02)	G	1	-	-	637.467	-	
13	Drivers Toilet					991.340	not started	-	Driver's Toilet	G	1	-	-	498.060	-	
14	School					17,424.000	not started	-	School		1	-	-	17,424.000	-	
15	Upper Basement Area					204,584.128	204,584.128	-	Upper Basement Area					358,023.131	-	
16	Lower Basement Area					155,146.473	155,146.473	-	Lower Basement Area					366,771.256	-	
	<b>Total</b>						<b>639 DU</b>	<b>20,92,531.801 sq.ft.</b>	<b>1,865,490.389</b>	<b>4,233</b>				<b>902 DU</b>	<b>35,20,028.950</b>	<b>5,021 (4,510 + 60+ 451 i.e 10% of residential population)</b>
								<b>1,94,402.741 sq.m.</b>							<b>3,27,021.707 sq.m.</b>	

During meeting, the Committee perused the compliance of ToR issued to the project proponent vide SEIAA letter dated 07.02.2022 and observed that as per ToR mentioned at point no. 3, the Environmental Consultant has considered the major portion of baseline study from the EIA study already carried out for Suntech City, Mullanpur by claiming that the same falls within the buffer zone of the proposed project. The Committee perused the KML file of the project and observed that the distance of the project namely Suntech City is more

than 5km from the proposed project site. Whereas, the Committee apprised the project proponent that as per the Guidelines for Building & Construction issued by MoEF&CC, the study area for carrying EIA study will be area with the angular distance of 500 meters surrounding the site. The Committee asked the project proponent to provide the necessary details along with documentary proof to justify their statement. The Project Proponent agreed to the same.

The Committee observed that Punjab Pollution Control Board vide letter no. 5315 dated 05.09.2022 mentioned that the project proponent has not carried out any construction activity at site, whereas, in the concluding part of the report, it has been mentioned that the Project Proponent has started construction work without obtaining environment clearance. The Committee decided to get the clarification from Punjab Pollution Control Board.

The Committee further observed that the Project Proponent has mentioned the total built-up area as 3,27,021.70 m<sup>2</sup> in the classification of built-up area under different building components however as per the application and other documents, the built-up area has been mentioned as 327021.39 sq.m. The Committee asked the Project Proponent to rectify the same.

The Project Proponent apprised the Committee that he shall discharge maximum quantity of 217 KLD of treated waste water in rainy season into 4.4 acre of the land area, to be developed as per Karnal Technology, in the absence of GMADA sewer. The Committee asked the project proponent to explore the possibility to discharge excess quantity of treated wastewater into sewer.

The Committee further observed that the Project Proponent has considered the population of only 60 persons for club, community centre, sport centre & commercial, and no population has been considered for school. The Committee asked the Project Proponent to check the same.

The Committee further observed that the Project Proponent has not submitted adequate proposal for management and disposal of storm water and also not submitted the compliance pertaining to the energy conservation measures.

After detailed deliberation, the Committee decided to defer the case, till the reply of the below mentioned observations:

- (i) The Project Proponent shall submit the documentary proof as per MoEF&CC Guidelines to substantiate that in case the project falls within the buffer zone of 5.4 KM, then in that case the baseline study already carried out within the buffer zone can be used for the proposed project.



- (ii) The Project Proponent has mentioned the total built-up area as 3,27,021.70 m<sup>2</sup> in the classification of built-up area under different building components and as per the application & other documents, the built-up area has been mentioned as 327021.39 sq.m. The Project Proponent shall rectify the same.
- (iii) The Project Proponent shall explore the possibility to discharge excess quantity of treated wastewater of the project into sewer.
- (iv) The Project Proponent shall submit the revised details of population for club, community centre, sport centre, commercial and school as per the statutory norms.
- (v) The Project Proponent shall submit the adequate proposal for management & disposal of storm water.
- (vi) The Project Proponent shall submit the compliance pertaining to the energy conservation measures adopted by the project in compliance to the conditions of the Environment Clearance granted to it.

**Item No. 232.04: 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
<b>Total</b>		<b>33000</b>	<b>1320</b>

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:*

<b>Sr. No.</b>	<b>Report of point sought by SEIAA</b>	<b>Remarks</b>
A.	<i>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.</i>	<i>No construction has been started by the industry at the expansion site.</i>
B.	<i>Status of physical structures within 500 m radius of the site including the status of industries, drain, river eco-sensitive structure if any.</i>	<ol style="list-style-type: none"> <li><i>1. The following units are located within 500 m radius of the unit:</i></li> <li><i>2. No rice sheller/ stone crusher/ hot mix plant/ brick kiln exist within 500 mtr from the proposed site.</i></li> <li><i>3. There is no jaggery, petroleum outlet exist within 100 mtr of the site.</i></li> <li><i>4. There is one perennial chosse passing adjoining the industry.</i></li> <li><i>5. There is no drain/ nallah/ chosse exist within 500 mtr of the site.</i></li> <li><i>6. There is no eco-sensitive structure within 500 mtr of the site.</i></li> </ol>
C.	<i>Whether the sites meeting the prescribed criteria for setting up of such type of projects. Please send the clear-cut recommendation.</i>	<p><i>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.</i></p> <p><i>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.</i></p>

*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 218<sup>th</sup> 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), <b>If yes</b> , 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, 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)	<p>i. Khol Hi-Raitan Wild Life Sanctuary situated at distance of 22 Km from the location of the proposed project.</p> <p>ii. The MoEF&amp;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.</p> <p>iii. The industry is located outside the eco-sensitive zone of Khol Hi-Raitan Wild Life Sanctuary.</p> <p>A self-declaration to the effect that the project does not require the clearance under the provisions of Wild Life (Protection) Act 1972 submitted.</p>																				
5.	Total Project Cost (In Crores):  Total project cost breakup at current price level duly certified by Chartered Engineer/ Approved valuer or Chartered Accountant	<p>(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.</p> <p>(b) Total project cost breakup is given below:</p> <table border="1" data-bbox="488 1585 1369 1854"> <thead> <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> </thead> <tbody> <tr> <td>1</td> <td>Cost of Land &amp; Building Building</td> <td>48.92</td> <td>-</td> <td>48.92</td> </tr> <tr> <td>2</td> <td>Plant &amp; Machinery</td> <td>91.95</td> <td>50</td> <td>141.95</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>140.87</b></td> <td></td> <td><b>190.87</b></td> </tr> </tbody> </table>	Sr. No	Description	Existing (Rs. In Crores)	Proposed (Rs. in Crores)	Total Cost (Rs. in Crores)	1	Cost of Land & Building Building	48.92	-	48.92	2	Plant & Machinery	91.95	50	141.95	<b>Total</b>		<b>140.87</b>		<b>190.87</b>
Sr. No	Description	Existing (Rs. In Crores)	Proposed (Rs. in Crores)	Total Cost (Rs. in Crores)																		
1	Cost of Land & Building Building	48.92	-	48.92																		
2	Plant & Machinery	91.95	50	141.95																		
<b>Total</b>		<b>140.87</b>		<b>190.87</b>																		

6.	Details of technology proposed for control of emissions & effluents generated from project	<p>The details of the Air Polluting machinery along with APCD after expansion is as under:</p> <table border="1" data-bbox="488 277 1364 1317"> <thead> <tr> <th>Sr. No.</th> <th>Source</th> <th>Fuel</th> <th>Capacity</th> <th>APCD</th> </tr> </thead> <tbody> <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> <tr> <td>5.</td> <td>Pilot plant</td> <td>For treatment of process/fugitive emissions</td> <td></td> <td>Packed bed scrubber with stack height of 3m above roof level.</td> </tr> <tr> <td>6.</td> <td>Manufacturing block A</td> <td>For treatment of process/fugitive emissions</td> <td></td> <td>Packed bed scrubber with stack height of 9m above roof level.</td> </tr> <tr> <td>7.</td> <td>Manufacturing block B</td> <td>For treatment of process/fugitive emissions</td> <td></td> <td>Packed bed scrubber with stack height of 9m above roof level.</td> </tr> <tr> <td>8.</td> <td>Process stack</td> <td>For treatment of process/fugitive emissions</td> <td></td> <td>Scrubber with stack height of 3m above roof level.</td> </tr> <tr> <td>9.</td> <td>Process stack</td> <td>For treatment of process/fugitive emissions</td> <td></td> <td>Scrubber with stack height of 3m above roof level.</td> </tr> </tbody> </table>	Sr. No.	Source	Fuel	Capacity	APCD	1.	Boiler	Rice Husk	5 Ton	Multi Cyclone separator with Chimney of height 30m	2.	Boiler	Rice Husk	5 Ton	Multi Cyclone separator with Chimney of height 30m	3.	Incinerator	HSD	1200 LPD	Scrubber with chimney height of 25m above roof level	4.	DG Set 1500 KVA	HSD	1*1500 KVA	Chimney height of 10m and acoustic enclosure.	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.
Sr. No.	Source	Fuel	Capacity	APCD																																																
1.	Boiler	Rice Husk	5 Ton	Multi Cyclone separator with Chimney of height 30m																																																
2.	Boiler	Rice Husk	5 Ton	Multi Cyclone separator with Chimney of height 30m																																																
3.	Incinerator	HSD	1200 LPD	Scrubber with chimney height of 25m above roof level																																																
4.	DG Set 1500 KVA	HSD	1*1500 KVA	Chimney height of 10m and acoustic enclosure.																																																
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	<p>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:</p> <table border="1" data-bbox="512 1424 1340 2027"> <thead> <tr> <th>S. No.</th> <th>Details</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Total Land Area</td> <td>95,506 sq.m. (23.6 acres)</td> </tr> <tr> <td>2.</td> <td>Administration Block (Block A)</td> <td>942 sq. m.</td> </tr> <tr> <td>3.</td> <td>Block B</td> <td>621 sq. m.</td> </tr> <tr> <td>4.</td> <td>Block C1 &amp; C2</td> <td>1725 sq. m.</td> </tr> <tr> <td>5.</td> <td>Warehouse (Block D)</td> <td>1496 sq. m.</td> </tr> <tr> <td>6.</td> <td>Solvent Recovery Plant (Block E)</td> <td>1565 sq. m.</td> </tr> <tr> <td>7.</td> <td>Utility (Block F)</td> <td>875 sq. m.</td> </tr> <tr> <td>8.</td> <td>ETP Area (Block G)</td> <td>1290 sq. m.</td> </tr> <tr> <td>9.</td> <td>Security/OHC (Block H)</td> <td>152 sq. m.</td> </tr> <tr> <td>10.</td> <td>Engineering (Block I)</td> <td>630 sq. m.</td> </tr> <tr> <td>11.</td> <td>Boiler House (Block J)</td> <td>291 sq. m.</td> </tr> <tr> <td>12.</td> <td>Transformer and DG Area</td> <td>640 sq. m.</td> </tr> <tr> <td>13.</td> <td>66 KVA Substation</td> <td>576 sq. m.</td> </tr> </tbody> </table>	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.								
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 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)	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.		
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	<p>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.</p> <p>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</p>		

		<p>KLD into the process 11 KLD for floor washing and 18 KLD domestic purpose.</p> <p>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 &amp; 11 KLD respectively.</p> <p>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.</p> <p>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.</p> <p>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</p> <p><b>Domestic wastewater treatment:</b></p> <p>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.</p> <p>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.</p>														
11.	Hazardous/Non-Hazardous Waste Generation details & their	<table border="1"> <thead> <tr> <th rowspan="2">Sr. No</th> <th rowspan="2">Name of Waste</th> <th rowspan="2">Category</th> <th colspan="2">Waste Generation</th> <th rowspan="2">Mode of Disposal</th> </tr> <tr> <th>Existing</th> <th>Total (After)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Sr. No	Name of Waste	Category	Waste Generation		Mode of Disposal	Existing	Total (After)						
Sr. No	Name of Waste	Category				Waste Generation			Mode of Disposal							
			Existing	Total (After)												

storage, utilization and its disposal. Copy of Agreement clearly mentioning the Quantity				(as per HW authorization)	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. Specification	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
		<ul style="list-style-type: none"> <li>i. The hazardous waste generated shall be stored, managed and disposed of as per Hazardous Waste Management Rules, 2016.</li> <li>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.</li> <li>iii. The spent oil shall be disposed of to authorized vendor i.e. M/s Golden Petro. Copy of agreement submitted.</li> </ul>					
12.	Solid Waste generation and its mode of disposal	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>					
13.	Rain Water utilization proposal	Pond will be adopted in the nearby village for rain water recharging of groundwater.					
14.	Blockwise details of no. of trees to be planted in proposed greenbelt area(1500 Trees to be planted @ 10000 Sqm area):	Total 31,906 sq.m. of green area has been provided within the industry.					

15.	Energy requirements & savings: Energy saving measures to be adopted within industry:	<p>a. The details of the energy are given below:</p> <table border="1" data-bbox="488 230 1370 524"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Unit</th> <th>Existing</th> <th>Proposed</th> <th>Total</th> </tr> </thead> <tbody> <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> </tbody> </table> <p>b. Energy conservation measures are being taken at the project site.</p>	S. No.	Description	Unit	Existing	Proposed	Total	1.	Power load	KW	2523	--	2523	2.	D.G sets	KVA	1×500 + 1×250	Replacement of both DG sets with 1500 kva	1 × 1500																																		
S. No.	Description	Unit	Existing	Proposed	Total																																																	
1.	Power load	KW	2523	--	2523																																																	
2.	D.G sets	KVA	1×500 + 1×250	Replacement of both DG sets with 1500 kva	1 × 1500																																																	
16.	EMP Budget details  Details of Environment Management Cell (EMC) responsible for implementation of EMP	<p>a. EMP budget details:</p> <table border="1" data-bbox="488 633 1355 1626"> <thead> <tr> <th>Sr. No.</th> <th>Details</th> <th>Capital Cost (In Lacs)</th> <th>Recurring Cost (In Lacs /annum)</th> </tr> </thead> <tbody> <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> <tr> <td>(v)</td> <td>Green belt development with maintenance plan for 3 years</td> <td>35</td> <td>6</td> </tr> <tr> <td>(vi)</td> <td>Rain Water Harvesting</td> <td>10</td> <td>0.5</td> </tr> <tr> <td>(vii)</td> <td>Environment Monitoring</td> <td>Nil</td> <td>8</td> </tr> <tr> <td>(viii)</td> <td>Solid Waste Management</td> <td>40</td> <td>15</td> </tr> <tr> <td>(ix)</td> <td>Energy Conservation</td> <td>25</td> <td>2.5</td> </tr> <tr> <td>(x)</td> <td>Disaster and Risk Management</td> <td>-</td> <td>10</td> </tr> <tr> <td>(xi)</td> <td>Any other</td> <td>-</td> <td>-</td> </tr> <tr> <td colspan="2"><b>Total</b></td> <td><b>485</b></td> <td><b>88.5</b></td> </tr> </tbody> </table> <p>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.</p>	Sr. No.	Details	Capital Cost (In Lacs)	Recurring Cost (In Lacs /annum)	(i)	APCD	25	6	(ii)	STP	25	10	(iii)	MEE upgradation	325	25	(iv)	OCEMS	-	1	(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	-	-	<b>Total</b>		<b>485</b>	<b>88.5</b>
Sr. No.	Details	Capital Cost (In Lacs)	Recurring Cost (In Lacs /annum)																																																			
(i)	APCD	25	6																																																			
(ii)	STP	25	10																																																			
(iii)	MEE upgradation	325	25																																																			
(iv)	OCEMS	-	1																																																			
(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	-	-																																																			
<b>Total</b>		<b>485</b>	<b>88.5</b>																																																			
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 221<sup>st</sup> 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:

<b>Sr. No.</b>	<b>Observations</b>	<b>Reply</b>
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.

		<p>2. No critically polluted area falls within 5 km of project location.</p> <p>3. No eco-sensitive area falls within 5 km of project location.</p> <p>4. Punjab-Haryana Boundary is situated at a distance of approx. 400 m from the project location.</p> <p>As per MoEF&amp;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.</p>																				
5.	The Project Proponent shall submit the details of reply submitted to PPCB for the show cause notice issued to the industry.	Submitted.																				
6.	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.	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, two stages scrubbing system will be provided as APCD on incinerator.																				
7.	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.	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Description</th> <th>Fugitive emissions</th> <th>Existing APCD</th> <th>Proposed APCD</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Pilot plant</td> <td>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></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></td> <td>Packed bed scrubber</td> <td>-</td> </tr> </tbody> </table>	Sl. No.	Description	Fugitive emissions	Existing APCD	Proposed APCD	1.	Pilot plant	Acid mist as HCL and VOCs from use of ethanol, etc. will be generated as fugitive emissions	Packed bed scrubber with stack ht. of 3 m above roof.	-	2.	Manufacturing Block A		Packed bed scrubber with stack ht. of 9 m above roof.	-	3.	Manufacturing Block B		Packed bed scrubber	-
Sl. No.	Description	Fugitive emissions	Existing APCD	Proposed APCD																		
1.	Pilot plant	Acid mist as HCL and VOCs from use of ethanol, etc. will be generated as fugitive emissions	Packed bed scrubber with stack ht. of 3 m above roof.	-																		
2.	Manufacturing Block A		Packed bed scrubber with stack ht. of 9 m above roof.	-																		
3.	Manufacturing Block B		Packed bed scrubber	-																		



					with stack ht. of 9 m above roof.	
		4.	Process Stack		-	Scrubber with stack ht. of 3 m above roof.
		5.	Process Stack		-	Scrubber with stack ht. of 3 m above roof.
8.	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.	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.				
9.	The Project Proponent shall submit NOC for carrying out the rain water harvesting in the village pond.	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.				
10	The Project Proponent shall submit the revised water balance for the existing and proposed unit.	Water balance for the existing & proposed scenario submitted. The comparison of the total water demand and waste water generation has been tabulated as under:				
		<b>Sr. No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Revised Quantity</b>	
		1	Total water demand	373 KLD	567 KLD	
		2	Fresh Water demand	265 KLD	375 KLD	
		3	HTDS effluent	52.188 KLD	72 KLD	
		4	LTDS effluent	34.792 KLD	48 KLD	
11	The Project Proponent shall also revise the Environment Management Plan after incorporating the above said details.	<b>Sr. No.</b>	<b>Details</b>	<b>Capital Cost (Rs. Lakhs)</b>	<b>Recurring Cost (Rs. Lakhs/ annum)</b>	
		1.	APCD (Boiler & Incinerator)	55	10	
		2.	STP of 30 KLD capacity	35	10	
		3.	MEE upgradation to 130 KLD	325	50	

		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	-
		<b>Total</b>		<b>Rs. 555 Lakhs</b>	<b>Rs. 142 Lakhs/ annum</b>

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.

The Member Secretary, SEAC vide letter no. 197 dated 03.06.2022 again requested Punjab Pollution Control Board to furnish the details of the complaint received against the industry along with Action Taken by the Board against these complaints. However, no action taken report has been received from Punjab Pollution Control Board till date.

**Deliberations during 223<sup>rd</sup> meeting of SEAC held on 27.06.2022.**

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. Jyoti Rani, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.

The Committee was apprised that Punjab Pollution Control Board (PPCB) vide letter No. 81 dated 13.04.2022 was requested to furnish the Action Taken Report on the complaints received against the industry. However, no action taken report was received from PPCB. The Member Secretary, SEAC vide letter No. 197 dated 03.06.2022 again requested PPCB to furnish the details of the complaint received against the industry along with action taken by the Board against these complaints within 15 days. However, no action taken report has been received from PPCB. The Committee noted with serious concern regarding non-receipt of action taken report from PPCB.

The Committee decided to again write to Chairman, PPCB for submitting the Action Taken by the Board on the complaints received against the industry to enable the Committee to decide the case.

After deliberations, SEAC decided to defer the case till the receipt of Action Taken Report from PPCB.

Member Secretary SEAC vide letter no. 225 dated 04.07.2022 requested Chairman Punjab Pollution Control Board to furnish the Action Taken Report on the complaints received against the industry. Punjab Pollution Control Board vide email dated 08.07.2022 sent the Action Taken Report on the complaint, the contents of the same are reproduced as under:

*"It is intimated that the industry was earlier granted consent to operate under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981, valid upto 31/3/2022, subject to certain condition as mentioned therein and main additional condition that the industry shall comply with the various directions issued by the CPCB in its show cause notice dated 27/7/2015 and directions dated 3/3/2016 and not to operate without obtaining the requisite permission from CPCB.*

*A complaint was received in this office dated 24/1/2022 by M/s Saheed Udham Singh Pollution Control Society regarding dumping of untreated wastewater/ effluent of the industry through the tankers outside the industry, wherever they find the space near the industry.*

*The industry was visited on 7/2/2022 and found that it had commissioned its unit without obtaining the requisite permission from CPCB and PPCB. The industry is operating without the compliance as well as permission from CPCB. The industry is not complying with the*

*conditions of the consents granted to it under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 as well as environmental laws and SOP framed by CPCB for such type of project. The pollution control device installed by the industry does not achieve the prescribed standard by the Board.*

*Accordingly, the Board has issued notice to issue directions u/s 33-A of the Water (Prevention & Control of Pollution) Act, 1974 as amended in 1988 vide Board's letter no. 1889-90 dated 21/3/2022 along with an opportunity to submit reply within 15-days. The reply submitted by the industry is under verification and further action in the matter is in process."*

#### **Deliberations during 224<sup>th</sup> meeting of SEAC held on 11.07.2022.**

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. Jyoti Rani, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.

Punjab Pollution Control Board (PPCB) vide e-mail dated 08.07.2022 reported that the industry was visited on 07.02.2022 and found that it had commissioned without obtaining the requisite permission from CPCB and PPCB. The industry is operating without the compliance as well as permission from CPCB. The industry is not complying with the conditions of the consents granted to it under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 as well as Environmental Laws and SOP framed by CPCB for such type of project. Further, the pollution control device installed by the industry it does not achieve the prescribed standard. Further, the Board has issued notice to issue directions u/s 33-A of the Water (Prevention & Control of Pollution) Act, 1974 as amended in 1988 vide Board's letter No. 1889-90 dated 21.03.2022 along with an opportunity to submit reply within 15 days. The reply submitted by the industry is under verification and further action in the matter is in process.

The Committee discussed the report of PPCB and further observed that the consents under the provisions of the Water Act 1974 & Air Act 1981 obtained by the industry had already been expired on 31.03.2022 for the existing products and the industry has yet not obtained renewal of Consent to Operate under the provisions of Water Act, 1974 & Air Act, 1981.

After detailed deliberations, SEAC decided to defer the case till the industry carryout the necessary compliances specifically with regard to allegations made in the complaint and obtain valid consent to operate under the provisions of the Water Act 1974 & Air Act 1981 from Punjab Pollution Control Board. The decision of the meeting was conveyed to the industry through Parivesh Portal on 14.07.2022.

#### **Deliberations during 232<sup>nd</sup> meeting of SEAC held on 14.11.2022.**

The meeting was attended by the following:

- (i) Mr. Luxmipati Shriram, Vice President of M/s Akums Lifesciences Limited.
- (ii) Mrs. Simranjit Kaur, EIA Coordinator, M/s Eco laboratories Pvt. Ltd.

During meeting, the Committee perused the status report furnished by Punjab Pollution Control Board vide email dated 27.09.2022, wherein it has been mentioned as under:

*“It is intimated that the industry was given personal hearing before the Chairman of the Board on 18/8/2022, wherein, it was decided as under:*

- 1. The industry shall operate its ETP, MEE, ATF and air pollution control devices regularly & efficiently so as to achieve the prescribed standards of the Board. The industry shall also ensure that there no nuisance is caused to the public in the vicinity due to foul smell.*
- 2. The industry shall comply with the SOP prescribed for such type of industries.*
- 3. The industry shall deposit bank guarantee amounting to Rs. 5.0 Lakhs, immediately as assurance to comply with the Environmental Laws in the O/o Environmental Engineer, SAS Nagar.*
- 4. The industry shall apply for consent to operate under the Water Act, 1974 and Air Act, 1981 and authorization as required under the Hazardous & other Waste (Management & Transboundary Movement) Rules, 2016, within one week.*
- 5. The Environmental Engineer, Regional Office, SAS Nagar shall visit the industry to monitoring the pollution control devices and to verify the statements of the industry and verify the compliance of environmental laws.*
- 6. The Environmental Engineer, Regional Office, SAS Nagar shall process the consent and authorization applications to be applied by the industry on merits.*

*To verify the compliance made by the industry, the industry was visited by the officer of the Board on 27/9/2022 and reported that the industry is complying with all the decisions of hearing except decision no. 2 (i.e. partially comply with the SOP framed by the Board for solvent recovery plants). However, the industry is doing best efforts to comply with the SOPs as well as other Environmental Laws and they have given assurance they will completely complying with the SOP conditions within a period of one month.”*

Further, the industry has presented the reply of the ADS raised on 14.07.2022 and apprised the Committee that the industry has been granted varied consent to operate under the provisions of the Water Act 1974 and Air Act 1981 for manufacturing of 7 API products which is valid up to 26.04.2023.

The Committee was satisfied with the reply given by the industry and after deliberations, decided to award 'Silver Grading' to the project proposal under category B2, Activity 5 (f) and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for the establishment of new API Bulk Drug Pharmaceutical manufacturing unit at village Chhachrauli, Tehsil Dera Bassi, District SAS Nagar, Punjab as per the relevant details mentioned in the application proposal & subsequent presentation /clarifications made by the project proponent and his consultant subject to the following conditions as under:-

#### **I. Statutory compliance**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain 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.

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

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 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<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> emissions) within and outside the plant area (at least at four locations one 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.

### **III. 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 will be segregated into two streams i.e., High TDS and Low TDS streams for effective and proper treatment of the same.  
  
Low TDS industrial effluent generation will be 48 KLD, which will be treated in the ETP. High TDS effluent comprising of process stream @ 72 KLD and RO reject stream @ 10 KLD will be sent to MEE for final treatment. The capacity of MEE will be 130 KLD.
- 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 534 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.



#### **IV. 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

#### **V. 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.

#### **VI. 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

## **VII. 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.
- 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.

## **VIII. 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.

**IX 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.

**X 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. 555 Lacs towards the capital cost and Rs. 142 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 (Rs. Lakhs)	Recurring Cost (Rs. Lakhs/ annum)
1.	APCD (Boiler & Incinerator)	55	10
2.	STP of 30 KLD capacity	35	10
3.	MEE upgradation to 130 KLD	325	50

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	-
<b>Total</b>		<b>Rs. 555 Lakhs</b>	<b>Rs. 142 Lakhs/ annum</b>

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.

#### **XI. 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, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- 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 EIA /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.

**XII. 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. 232.05: Application for Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of residential Project namely “CGEWHO Residential Project” at Plot no. 3, Sector 79, SAS Nagar, Punjab by M/s Central Government Employees Welfare Housing Organization (Proposal No. SIA/PB/MIS/122453/2019).**

The Central Government Employees Welfare Housing Organization (CGEWHO) has proposed to establish residential housing project at Plot no. 3, Sector 79, SAS Nagar, Punjab, in the total land area of 22,824.27 sqm having built up area 85,402.525 sqm. The Project is covered under Activity 8(a) & Category ‘B2’ as per EIA notification-2006.

CGEWHO has submitted the Form I, 1A and other additional documents along with processing fee amounting to Rs. 1,70,805/- vide NEFT No. P042220153034510 dated 11.02.2022, as verified by the supporting staff SEIAA.

CGEWHO has submitted the conceptual plan wherein total plot area has been mentioned as 5.640 acres having built up area of 85402.525 sqm.

Punjab Pollution Control Board vide letter no. 4406 dated 18.07.2022 has sent the latest construction status report with details as under:

1. *“The site was visited by officer of the Board on 7/7/2022 and it was observed as under:*
2. *No demarcation of the site has been done. As per the site shown by the representative the site is located in front of Police Station Sohana, sector 79, Mohali and adjoining to it is Sh. Guru Singh Sabha Gurdwara Sahib, sector 79, Mohali. The site is surrounded by residential flats of sector 79 from 2 side.*
3. *No site development work has been started at the site.*
4. *No bore well has been done at the site.*
5. *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. No Air polluting industry is located within 100 mtr of the proposed site. Therefore, the site of the project is conforming to the sitting guidelines laid down by the Government of Punjab, Department of Science Technology and Environment vide order dated 25/7/2008 as amended on 30/10/2009.*
6. *As per Master plan of SAS Nagar, the classification of the area is Residential.*
7. *GMADA has laid sewer network in the area.”*

**Deliberations during 225<sup>th</sup> meeting of SEAC held on 25.07.2022.**

The meeting was attended by the following:

- (i) Sh. Bant Singh, Director, M/s CGEWHO.
- (ii) Mrs. Sadhna Singh, EIA Coordinator GRC India Private Limited.

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
<b>1</b>	<b>Basic Details</b>	
1.1	Name of Project & Project Proponent:	<b>Project Name:</b> CGEWHO Group Housing Project <b>Project Proponent:</b> Central Government Employees Welfare Housing Organization
1.2	Proposal:	SIA/PB/MIS/122453/2019
1.3	Location of Project:	Plot No.-3, Sector-79, District- SAS Nagar, Tehsil- Mohali, Punjab
1.4	Details of Land area & Built up area:	Plot area = 22,824.27 sqm Built up area = 85,402.525 sqm
1.5	Category under EIA notification dated 14.09.2006	8 (a)
1.6	Cost of the project	INR 82.73 Crores
<b>2.</b>	<b>Site Suitability Characteristics</b>	
2.1	Whether project is suitable as per the provisions of Master Plan:	The site of project falls in the residential zone as per the Master Plan of SAS Nagar.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	A copy of allotment letter issued by PUDA vide memo no. 27834 dated 30.12.2003 in the name of Chief Executive officer, Central Government Employees Welfare Housing Organization, New Delhi for the land measuring 5.64 acres at Sector-79, District- SAS Nagar, Tehsil- Mohali, Punjab for the construction of Residential Project "The CGEWHO Group Housing Project" submitted.
<b>3</b>	<b>Forest, Wildlife and Green Area</b>	
3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	A copy of letter issued by Deputy Conservator of Forest, Chandigarh Administration vide letter No. FOR/2022/3334 dated 05.01.2022 wherein it has been mentioned that the distance of the project is at approximately 13.09 Km from the Sukhna Wildlife Sanctuary and 8.14 Km from City Bird Sanctuary. Further, the Project Proponent has submitted an undertaking to the effect that no land area of the project is covered under the provisions of Forest Conservation Act 1980.
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.
3.3	Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:	A copy of letter issued by Deputy Conservator of Forest, Chandigarh Administration vide letter No. FOR/2022/3334 dated 05.01.2022 wherein it has been mentioned that the distance of the project is at approximately 13.09 Km from the Sukhna Wildlife Sanctuary and 8.14 Km from City Bird Sanctuary.
3.4	Whether the project falls within the influence of Eco-Sensitive Zone or not.	No
3.6	Green area requirement and	Green Area = 6,336.788 sqm No. of trees proposed = 380 trees



	proposed No. of trees:																																																																		
<b>4.</b>	<b>Configuration &amp; Population</b>																																																																		
4.1	Proposal & Configuration	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Descriptions</th> <th>Area in Sqm</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Plot area</td> <td>22,824.27</td> </tr> <tr> <td>2.</td> <td>Permissible FAR @ 2.5% of Plot area</td> <td>57,060.675</td> </tr> <tr> <td>3.</td> <td>Proposed FAR @ 2.482 of Plot area</td> <td>56,653.749</td> </tr> <tr> <td>4.</td> <td>Non-FAR</td> <td>28,748.776</td> </tr> <tr> <td>5.</td> <td>Built up area (Non-FAR + FAR)</td> <td>85,402.525</td> </tr> </tbody> </table> <p>The above said details area as per the application proposal &amp; Conceptual plan.</p>	Sr. No.	Descriptions	Area in Sqm	1.	Plot area	22,824.27	2.	Permissible FAR @ 2.5% of Plot area	57,060.675	3.	Proposed FAR @ 2.482 of Plot area	56,653.749	4.	Non-FAR	28,748.776	5.	Built up area (Non-FAR + FAR)	85,402.525																																															
Sr. No.	Descriptions	Area in Sqm																																																																	
1.	Plot area	22,824.27																																																																	
2.	Permissible FAR @ 2.5% of Plot area	57,060.675																																																																	
3.	Proposed FAR @ 2.482 of Plot area	56,653.749																																																																	
4.	Non-FAR	28,748.776																																																																	
5.	Built up area (Non-FAR + FAR)	85,402.525																																																																	
4.2	Population details																																																																		
	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>No. of Blocks</th> <th>No. of Dwelling units</th> <th>PPU</th> <th>Total Population</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Residential</td> <td>5</td> <td>402</td> <td>5</td> <td><b>2010</b></td> </tr> <tr> <td>2.</td> <td>Maintenance Staff</td> <td colspan="3">5% of residential population</td> <td><b>101</b></td> </tr> <tr> <td>3.</td> <td>Visitors</td> <td colspan="3">10 % of residential population</td> <td><b>201</b></td> </tr> <tr> <td rowspan="2">4.</td> <td rowspan="2">Club Commercial</td> <td>418.331</td> <td>3 Sq.m/ person</td> <td>139</td> </tr> <tr> <td>(Ground Floor)</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>1189.671</td> <td>6 Sq.m/ person</td> <td>198</td> </tr> <tr> <td></td> <td></td> <td>(1<sup>st</sup> + 2<sup>nd</sup> + 3<sup>rd</sup> Floor)</td> <td></td> <td></td> </tr> <tr> <td colspan="5" style="text-align: center;"><b>Total</b></td> <td><b>337</b></td> </tr> <tr> <td></td> <td>➤ Staff</td> <td colspan="3">@10% of the Commercial population</td> <td>34</td> </tr> <tr> <td></td> <td>➤ Visitors</td> <td colspan="3">@90% of the Commercial population</td> <td>303</td> </tr> <tr> <td colspan="5" style="text-align: center;"><b>Total Population =</b></td> <td><b>2986</b></td> </tr> </tbody> </table>	S. No.	Description	No. of Blocks	No. of Dwelling units	PPU	Total Population	1.	Residential	5	402	5	<b>2010</b>	2.	Maintenance Staff	5% of residential population			<b>101</b>	3.	Visitors	10 % of residential population			<b>201</b>	4.	Club Commercial	418.331	3 Sq.m/ person	139	(Ground Floor)					1189.671	6 Sq.m/ person	198			(1 <sup>st</sup> + 2 <sup>nd</sup> + 3 <sup>rd</sup> Floor)			<b>Total</b>					<b>337</b>		➤ Staff	@10% of the Commercial population			34		➤ Visitors	@90% of the Commercial population			303	<b>Total Population =</b>					<b>2986</b>
S. No.	Description	No. of Blocks	No. of Dwelling units	PPU	Total Population																																																														
1.	Residential	5	402	5	<b>2010</b>																																																														
2.	Maintenance Staff	5% of residential population			<b>101</b>																																																														
3.	Visitors	10 % of residential population			<b>201</b>																																																														
4.	Club Commercial	418.331	3 Sq.m/ person	139																																																															
		(Ground Floor)																																																																	
		1189.671	6 Sq.m/ person	198																																																															
		(1 <sup>st</sup> + 2 <sup>nd</sup> + 3 <sup>rd</sup> Floor)																																																																	
<b>Total</b>					<b>337</b>																																																														
	➤ Staff	@10% of the Commercial population			34																																																														
	➤ Visitors	@90% of the Commercial population			303																																																														
<b>Total Population =</b>					<b>2986</b>																																																														
<b>5</b>	<b>Water</b>																																																																		
5.1	Total water demand w.r.t Population:																																																																		
	<table border="1"> <thead> <tr> <th rowspan="2">S. No.</th> <th rowspan="2">Description</th> <th rowspan="2">No. of DUs/Area (m<sup>2</sup>)</th> <th rowspan="2">Occupancy</th> <th colspan="2">Rate of water demand (lpcd)</th> <th colspan="3">Total Water Requirement (KLD)</th> </tr> <tr> <th>Fresh</th> <th>Flushing</th> <th>Fresh</th> <th>Flushing</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td><b>A.</b></td> <td><b>Domestic Water</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>• Residents</td> <td>402</td> <td>2010</td> <td>65</td> <td>21</td> <td>131</td> <td>42</td> <td><b>173</b></td> </tr> <tr> <td></td> <td>• Staff</td> <td></td> <td>135</td> <td>25</td> <td>20</td> <td>4</td> <td>3</td> <td><b>7</b></td> </tr> <tr> <td></td> <td>• Visitors</td> <td></td> <td>504</td> <td>5</td> <td>10</td> <td>3</td> <td>5</td> <td><b>8</b></td> </tr> </tbody> </table>	S. No.	Description	No. of DUs/Area (m <sup>2</sup> )	Occupancy	Rate of water demand (lpcd)		Total Water Requirement (KLD)			Fresh	Flushing	Fresh	Flushing	Total	<b>A.</b>	<b>Domestic Water</b>									• Residents	402	2010	65	21	131	42	<b>173</b>		• Staff		135	25	20	4	3	<b>7</b>		• Visitors		504	5	10	3	5	<b>8</b>																
S. No.	Description					No. of DUs/Area (m <sup>2</sup> )	Occupancy	Rate of water demand (lpcd)		Total Water Requirement (KLD)																																																									
		Fresh	Flushing	Fresh	Flushing			Total																																																											
<b>A.</b>	<b>Domestic Water</b>																																																																		
	• Residents	402	2010	65	21	131	42	<b>173</b>																																																											
	• Staff		135	25	20	4	3	<b>7</b>																																																											
	• Visitors		504	5	10	3	5	<b>8</b>																																																											

				<b>138 KLD</b>	<b>50 KLD</b>	<b>188 KLD</b>
<b>Total Domestic Water = 188 KLD</b>						
<b>B.</b>	<b>Horticulture</b>	6336.788 m <sup>2</sup>	5.5 l/sqm	<b>35 KLD</b>		
<b>C.</b>	<b>Swimming Pool</b>				<b>2 KLD</b>	
<b>Grand Total (A+B+C) = 225 KLD</b>						
5.2	Total fresh water requirement:	138 KLD				
5.3	Source:	The fresh water demand will be met from DWSS GMADA Punjab (Department of Water Supply & Sanitation).				
5.4	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) <i>Details thereof</i>	Application for obtaining permission of fresh water supply from Greater Mohali Development Authority has been submitted and it is under process.				
5.4	Total wastewater generation:	160 KLD				
5.5	Treatment methodology: <i>(STP capacity, technology)</i>	<b>STP capacity:</b> 200 KLD STP of Central Government Employees Welfare Housing Organization. <b>Technology:</b> MBBR Technology <b>Treated waste water:</b> 144 KLD				
5.6	Treated wastewater for flushing purpose:	50 KLD				
5.7	Treated wastewater for green area in summer, winter and rainy season:	Summer season: 35KLD Winter season: 12 KLD Rainy season: 3 KLD				
5.8	Utilization/Disposal of excess treated wastewater.	Summer season: 59KLD Winter season: 82 KLD Rainy season: 91 KLD The excess treated wastewater shall be utilized for plantation out side the project site and nearby construction site.				
5.9	<b>Cumulative Details:</b>					
	<b>S. No.</b>	<b>Total water Requirement</b>	<b>Total wastewater generated</b>	<b>Treated wastewater</b>	<b>Flushing water requirement</b>	<b>Green area requirement</b>
	1.	188 KLD	160 KLD	144 KLD	50 KLD	35 KLD
* The excess treated wastewater shall be utilized for plantation outside the project site and nearby construction site.						
5.10	Rain water harvesting proposal:	<ul style="list-style-type: none"> <li>• Volume of a single Recharge pit = <math>\pi r^2h = 3.14 \times 2.25 \times 2.25 \times 4 = 63.6 \text{ m}^3</math></li> <li>• No. of pits required for roof top area = 1 pits.</li> <li>• No. of pits required for Green area = 1 pit.</li> <li>• No. of pits required for paved area = 1 pits</li> </ul> <p><i>Total 3 Rain Water Harvesting pits being proposed for artificial rain water recharge within the project premises.</i></p>				

6	<b>Air</b>									
6.1	Details of Air Polluting machinery:	3 No. of DG Sets of capacity 1750 KVA (1x750 KVA + 2x500 KVA) shall be installed for power backup. The said DG sets shall be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.								
6.2	Measures to be adopted to contain particulate emission/Air Pollution	<table border="1"> <thead> <tr> <th>Anticipated Impact</th> <th>Mitigation Measures</th> </tr> </thead> <tbody> <tr> <td> <u><b>Construction Phase:</b></u> <ol style="list-style-type: none"> <li>Dust emission from transportation of construction material.</li> <li>Gaseous emissions from construction machinery.</li> <li>Dust from construction activities.</li> <li>Emission from DG sets.</li> </ol> </td> <td> <ol style="list-style-type: none"> <li>Site will be enclosed with 5 m high barricade around the project boundary which will act as a wind breaker.</li> <li>Water sprinkling will be carried out for dust suppression.</li> <li>All the machinery deployed at site are of highest standard and of reputed make and comply with the emission standards</li> <li>Low sulphur diesel will be used for DG sets, vehicles and construction machinery.</li> <li>Vehicles having valid pollution under control (PUC) certificate will be allowed to enter the project site.</li> <li>The trucks carrying construction materials and debris will be suitably covered by tarpaulin/plastic sheets</li> <li>Speed of the vehicles will be restricted to 20 kmph by erecting speed bumps and signages at regular intervals within project site.</li> </ol> </td> </tr> <tr> <th>Anticipated Impact</th> <th>Mitigation Measures</th> </tr> <tr> <td> <u><b>Operation Phase:</b></u> <ol style="list-style-type: none"> <li>Vehicular movement</li> <li>DG sets operation</li> </ol> </td> <td> <ol style="list-style-type: none"> <li>Tree plantation to attenuate particulate matter.</li> <li>Low sulphur diesel (ULSD) will be used for DG sets.</li> <li>Stack height will be provided as per CPCB norms.</li> <li>Ensure smooth traffic circulation and restriction on vehicular speed within the premises.</li> </ol> </td> </tr> </tbody> </table>	Anticipated Impact	Mitigation Measures	<u><b>Construction Phase:</b></u> <ol style="list-style-type: none"> <li>Dust emission from transportation of construction material.</li> <li>Gaseous emissions from construction machinery.</li> <li>Dust from construction activities.</li> <li>Emission from DG sets.</li> </ol>	<ol style="list-style-type: none"> <li>Site will be enclosed with 5 m high barricade around the project boundary which will act as a wind breaker.</li> <li>Water sprinkling will be carried out for dust suppression.</li> <li>All the machinery deployed at site are of highest standard and of reputed make and comply with the emission standards</li> <li>Low sulphur diesel will be used for DG sets, vehicles and construction machinery.</li> <li>Vehicles having valid pollution under control (PUC) certificate will be allowed to enter the project site.</li> <li>The trucks carrying construction materials and debris will be suitably covered by tarpaulin/plastic sheets</li> <li>Speed of the vehicles will be restricted to 20 kmph by erecting speed bumps and signages at regular intervals within project site.</li> </ol>	Anticipated Impact	Mitigation Measures	<u><b>Operation Phase:</b></u> <ol style="list-style-type: none"> <li>Vehicular movement</li> <li>DG sets operation</li> </ol>	<ol style="list-style-type: none"> <li>Tree plantation to attenuate particulate matter.</li> <li>Low sulphur diesel (ULSD) will be used for DG sets.</li> <li>Stack height will be provided as per CPCB norms.</li> <li>Ensure smooth traffic circulation and restriction on vehicular speed within the premises.</li> </ol>
Anticipated Impact	Mitigation Measures									
<u><b>Construction Phase:</b></u> <ol style="list-style-type: none"> <li>Dust emission from transportation of construction material.</li> <li>Gaseous emissions from construction machinery.</li> <li>Dust from construction activities.</li> <li>Emission from DG sets.</li> </ol>	<ol style="list-style-type: none"> <li>Site will be enclosed with 5 m high barricade around the project boundary which will act as a wind breaker.</li> <li>Water sprinkling will be carried out for dust suppression.</li> <li>All the machinery deployed at site are of highest standard and of reputed make and comply with the emission standards</li> <li>Low sulphur diesel will be used for DG sets, vehicles and construction machinery.</li> <li>Vehicles having valid pollution under control (PUC) certificate will be allowed to enter the project site.</li> <li>The trucks carrying construction materials and debris will be suitably covered by tarpaulin/plastic sheets</li> <li>Speed of the vehicles will be restricted to 20 kmph by erecting speed bumps and signages at regular intervals within project site.</li> </ol>									
Anticipated Impact	Mitigation Measures									
<u><b>Operation Phase:</b></u> <ol style="list-style-type: none"> <li>Vehicular movement</li> <li>DG sets operation</li> </ol>	<ol style="list-style-type: none"> <li>Tree plantation to attenuate particulate matter.</li> <li>Low sulphur diesel (ULSD) will be used for DG sets.</li> <li>Stack height will be provided as per CPCB norms.</li> <li>Ensure smooth traffic circulation and restriction on vehicular speed within the premises.</li> </ol>									
7	<b>Waste Management</b>									
7.1	Total quantity of solid waste generation	1,023 kg/day								
7.2	Details of management and disposal of solid	Solid wastes will be appropriately segregated at source. by providing bins into recyclable, Bio-degradable Components, and non- biodegradable. <b>Bio-Degradable waste</b>								

	waste (Mechanical Composter/Compost pits)	<ol style="list-style-type: none"> <li>1. Bio-degradable waste will be subjected to composting through Organic Waste Converter and the compost will be used as manure.</li> <li>2. STP sludge is proposed to be used in horticulture.</li> <li>3. Horticultural Waste is proposed to be composted and used for gardening.</li> </ol> <p><b>Recyclable waste</b></p> <ol style="list-style-type: none"> <li>i. Grass Recycling – The cropped grass will be spread on green area. It will act as manure after decomposition.</li> <li>ii. Recyclable waste like paper, plastic, metal etc. will be disposed through local approved recyclers.</li> </ol> <p><b>Disposal</b></p> <p>Recyclable &amp; non-recyclable waste will be disposed through an authorized service provider/vendor.</p>												
7.5	Details of management of Hazardous Waste.	Not submitted any details.												
8	<b>Energy Saving &amp; EMP</b>													
8.1	Power Consumption:	1,700 kVA												
8.2	Energy saving measures:	<p>3 no. of DG sets of total capacity 1,750 kVA (1x750 + 2x500)</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>DESCRIPTION</th> <th>SAVINGS (kVA)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Solar based Lighting will be done in the landscape areas, signage, entry gates and boundary walls etc.</td> <td>180</td> </tr> <tr> <td>2.</td> <td>LEDs for internal lighting</td> <td>245</td> </tr> <tr> <td colspan="2"><b>Total Energy Saved</b></td> <td>425</td> </tr> </tbody> </table> <p>Total energy consumption = 1,700 kVA  Energy saved through various provisions = 425 kVA  TOTAL ENERGY SAVING = 25 %</p>	S. No.	DESCRIPTION	SAVINGS (kVA)	1.	Solar based Lighting will be done in the landscape areas, signage, entry gates and boundary walls etc.	180	2.	LEDs for internal lighting	245	<b>Total Energy Saved</b>		425
S. No.	DESCRIPTION	SAVINGS (kVA)												
1.	Solar based Lighting will be done in the landscape areas, signage, entry gates and boundary walls etc.	180												
2.	LEDs for internal lighting	245												
<b>Total Energy Saved</b>		425												
8.3	Details of activities under Environment Management Plan:	<p>During construction phase Project Manager will be responsible and during operation phase, Project Manager will be responsible for implementation of the EMP.</p> <table border="1"> <thead> <tr> <th>COMPONENT</th> <th>CAPITAL COST (INR LAKH)</th> <th>RECURRING COST (INR LAKH/YR)</th> </tr> </thead> <tbody> <tr> <td>Sewage Treatment Plant</td> <td>20</td> <td>5</td> </tr> <tr> <td>Rain Water Harvesting System</td> <td>4.5</td> <td>1.1</td> </tr> <tr> <td>Solid Waste Management</td> <td>2.0</td> <td>0.5</td> </tr> </tbody> </table>	COMPONENT	CAPITAL COST (INR LAKH)	RECURRING COST (INR LAKH/YR)	Sewage Treatment Plant	20	5	Rain Water Harvesting System	4.5	1.1	Solid Waste Management	2.0	0.5
COMPONENT	CAPITAL COST (INR LAKH)	RECURRING COST (INR LAKH/YR)												
Sewage Treatment Plant	20	5												
Rain Water Harvesting System	4.5	1.1												
Solid Waste Management	2.0	0.5												

		Environmental Monitoring	--	9
		Green Area/ Landscape Area	3.8	0.95
		Others (Energy saving devices, miscellaneous)	10	2.5
		Solar power	47	11.75
		<b>Total</b>	<b>87.3</b>	<b>30.8</b>

The Committee, after presentation of proposal by the Project Proponent, observed as under:

- (i) The calculation for estimating the population viz-e-viz water consumption needs to be revised by considering 5 persons per dwelling unit
- (ii) The Committee observed that the Project Proponent has neither provided dedicated space for solid waste management and nor provided any agreement for disposal of non-recyclable fraction of dry waste.
- (iii) During meeting, the Project Proponent apprised the Committee that the excess treated wastewater being generated from the project shall be utilized for plantation to be developed outside the premises of the project and to the nearby construction site. The Committee apprised the Project Proponent that PPCB vide letter No. 4406 dated 18.07.2022 reported that GMADA has late sewer network in the area. The Committee did not accept the proposal of the Project Proponent and asked the Project Proponent to obtain sewer connection from GMADA for discharging the excess treated wastewater being generated from the project.
- (iv) The Committee further observed that the Project Proponent has not proposed any activity under CER and did not allocate any funds under the same. The Committee as such asked the Project Proponent to allocate up to 1% of the total project cost under CER activities. The Project Proponent requested the Committee that the proposed residential project is for the Central Govt. Employees Welfare Housing Organization which is a No profit-No loss organization. Therefore, it is not possible for the organization to allocate 1% of the project cost for CER activities. However, the Project Proponent proposes to allocate 0.6% of the total project cost under CER activities. The Committee accepted the proposal of the Project Proponent and asked him to undertake any of the following activities under CER:
  - a) In situ Crop residue Management for control of stubble burning
  - b) Rejuvenation of Village Pond
  - c) Development of Infrastructure for utilization of treated effluent of STP.
  - d) Development of Mini Forests (Nanak Bagichi) in the District
  - e) Alternative to single use plastic.
- (v) The Project Proponent shall submit the details for the management of Hazardous Waste

- (vi) The Committee observed that 25% energy savings proposed by the Project Proponent needs to be checked. The Project Proponent shall submit the revised calculation for energy saving as per standards laid down by Bureau of Energy efficiency.

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

- (i) The Project Proponent shall submit revised calculation for estimating the population viz-e-viz water consumption by considering 5 persons per dwelling unit.
- (ii) The Project Proponent shall provide dedicated space for solid waste management and provide agreement for disposal of non-recyclable fraction of dry waste.
- (iii) The Project Proponent shall submit the permission from the competent authority for discharging excess treated wastewater into sewer.
- (iv) The Project Proponent shall submit the proposal to undertake CER activities by allocating 0.6% of the total project cost under CER activities.
- (v) The Project Proponent shall submit the details for the management of Hazardous Waste
- (vi) The Project Proponent shall submit the revised calculation for estimating the total energy saved as per the standards laid down by Bureau of Energy efficiency.

Nobody on behalf of the Project Proponent and Environmental Consultant was present during the meeting. The Committee perused the reply of the observations submitted by the Project Proponent through online portal as under:

<b>Sr. No.</b>	<b>Observation</b>	<b>Reply</b>
1	The Project Proponent shall submit revised calculation for estimating the population viz-e-viz water consumption by considering 5 persons per dwelling unit.	Earlier, the population was considered as 4.5 persons per DU. Revised population has been considered @5 persons per DU. Updated conceptual plan submitted
2	The Project Proponent shall provide dedicated space for solid waste management and provide agreement for disposal of non-recyclable fraction of dry waste.	Space for solid waste management in each block is marked in the layout plan submitted  Non-recyclable fraction of dry waste will be done by CPCB approved vendors as per norms of Solid Waste Management Rules, 2016. An undertaking stating the same submitted.
3	The Project Proponent shall submit the permission from the competent authority for discharging excess treated wastewater into sewer.	The sewer connection will only be issued after submission of the completion certificate of the building as per the letter received from Greater Mohali Area Development Authority dated 18.01.2011. Copy of the same submitted
4	The Project Proponent shall submit the proposal to undertake CER activities by	Total project cost is INR 218.46 Crores and we have allocated 0.6% (INR 1.31 Cr.) of the total

	allocating 0.6% of the total project cost under CER activities.	project cost under CER activities. Copy of CA Certificate submitted.
5	The Project Proponent shall submit the details for the management of Hazardous Waste	Hazardous waste if generated will be disposed as per norms of Hazardous Waste Management Rules-2016. An undertaking stating same submitted
6	The Project Proponent shall submit the revised calculation for estimating the total energy saved as per the standards laid down by Bureau of Energy efficiency.	Total electric load is 1722 kW and total energy saving i.e 133 kW which is approx. 7.74% of the total electric load. Revised energy saving calculation submitted.

On perusal of the aforementioned reply, the Committee observed that the Project Proponent has earmarked multiple locations for Solid Waste Management. The Project Proponent is required to dedicate centralized space for Solid Waste Management. The Committee further observed that capital & recurring cost proposed to be spent on sewage treatment and Solid Waste Management are on lower side and needs to be revised.

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

- (i) The Project Proponent shall submit the revised Solid Waste Management layout plan by earmarking dedicated area for carrying out Solid Waste Management.
- (ii) The Project Proponent shall submit the revised EMP plan after revising the capital & recurring cost for Sewage Treatment Plant and Solid Waste Management.

**Deliberations during 232<sup>nd</sup> meeting of SEAC held on 14.11.2022.**

The meeting was attended by the following:

- (i) Sh. Bant Singh, Director, M/s CGEWHO.
- (ii) Sh. Kashinath Dutta (EIA notification dated 14.09.2006 Coordinator), M/s Grass Roots Company India P Ltd.
- (iii) Sh. Saurabh Gola (FAE-WP), M/s Grass Roots Company India P Ltd.

The Environmental Consultant of the Project Proponent presented the reply of the observations of the Committee as under:

Sl. No.	Observation	Reply
1	The Project Proponent shall submit the revised Solid Waste Management layout plan by earmarking dedicated area for carrying out Solid Waste Management	The revised Solid Waste Management layout plan by earmarking dedicated area for carrying out Solid Waste Management layout plan submitted.

2	The Project Proponent shall submit the revised EMP plan after revising the capital & recurring cost for Sewage Treatment Plant and Solid Waste Management.	The revised EMP plan after revising the capital & recurring cost for Sewage Treatment Plant and Solid Waste Management submitted.
---	--	---

The Committee was satisfied with the reply and clarification given by the industry and after deliberations, decided to award 'Silver Grading' to the project proposal under category B2, Activity 8(a) and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for the establishment of residential Project namely "CGEWHO Residential Project" at Plot no. 3, Sector 79, SAS Nagar, Punjab by M/s Central Government Employees Welfare Housing Organization as per the relevant details mentioned in the application proposal & subsequent presentation /clarifications made by the project proponent and his consultant subject to the following conditions as under:-

**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, murrum 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 110 KLD, out of which 82 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:

S. No.	Total water Requirement	Total wastewater generated	Treated wastewater	Flushing water requirement	Green area requirement	Green area outside the project and construction site
1.	188 KLD	160 KLD	144 KLD	50 KLD	Summer: 35 KLD Winter: 12 KLD Monsoon: 3 KLD	Summer: 59 KLD Winter: 82 KLD Monsoon: 91 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:

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

e)	Treated wastewater (for reuse only for plantation purposes) from the STP treating black water	Green
f)	Treated wastewater (for reuse for flushing purposes or any other activity except plantation) from the STP treating greywater	Green with strips
g)	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, 3 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) The Project Proponent shall install Mechanical Composter of adequate capacity to treat wet component of the Solid Waste.
- iii) Disposal of muck during the construction phase should not create any adverse effect on the neighbouring communities and should be safely disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of the competent authority.
- iv) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating the segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- v) Organic waste compost/ Vermiculture pit/ Organic Waste Converter/Mechanical Composter within the premises must be installed for treatment and disposal of the solid waste.
- vi) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie-up must be done with the authorized recyclers.
- vii) Any hazardous waste generated during the construction phase, shall be disposed of as per applicable rules and norms with the necessary approvals of the State Pollution Control Board.
- viii) Use of environment-friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
- ix) Fly ash should be used as a building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready-mixed concrete must be used in building construction.

- x) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- xi) Used CFLs and TFLs should be properly collected and disposed of or sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

## **VII. Green Cover**

- i) No naturally growing tree should be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department.
- ii) At least a single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. The project proponent shall ensure the planting of 380 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) & CER of the proposed project are as per the details given in Table below:

<b>COMPONENT</b>	<b>CAPITAL COST (INR LAKH)</b>	<b>RECURRING COST (INR LAKH/YEAR)</b>
Sewage Treatment Plant	70	17.5
Rainwater Harvesting System	13.5	3.5
Solid Waste Management	20.0	5.0
Environmental Monitoring	Nil	9.0

Green Area Development	4.0	1.0
Others (Energy saving, miscellaneous)	57.0	14.25
<b>CER (INR 1.31 Cr.)</b>		
Rejuvenation of nearby 4 ponds in Village Sohana at approx. 1.5 km in NW direction, Village Nanu Majra at approx. 1.6 km in WSW direction , Village-Manak Majra at approx. 3.11 km in West direction, Village Sukhgarh at approx. 2.7 km in SW direction.	100.0	--
Plantation in nearby villages in Village Sohana at approx. 1.5 km in NW direction, Village Nanu Majra at approx. 1.6 km in WSW direction , Village-Manak Majra at approx. 3.11 km in West direction, Village Sukhgarh at approx. 2.7 km in SW direction.	20.0	--
Solar panels in Govt. Primary School in Vill.- Sukhgarh at 2.7 km in SW direction. Govt. Primary School in Vill.- Malakpur at 1.6 km in NW direction, Govt. primary School in Vill.-Manak Majra at 3.1 km in west direction.,	11.0	--
<b>TOTAL</b>	<b>295.5</b>	<b>50.25</b>

#### **XI. Validity**

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

#### **XII. Miscellaneous**

- i) The project proponent shall obtain a completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab before allowing any occupancy.
- ii) The project proponent shall comply with the conditions of CLU, if obtained.
- iii) The project proponent shall prominently advertise in at least two local newspapers of the District or State, of which one shall be in the vernacular language within seven

days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.

- iv) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn have to publicly display the same for 30 days from the date of receipt.
- v) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on a half-yearly basis.
- vi) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at the Environment Clearance portal and submit a copy of the same to SEIAA.
- vii) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put the same on the website of the company.
- viii) The project proponent shall inform the Regional Office as well as SEIAA Punjab, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during public hearing and also those made to SEIAA / SEAC during their presentation.
- xi) No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- xii) The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/ SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/information/monitoring reports.

- xiii) This Environmental Clearance is granted subject to final outcome of pending related cases in the Hon'ble Supreme Court of India, Hon'ble High Courts, Hon'ble NGT and any other Court of Law as may be applicable to this project.

### **XIII. Additional Conditions**

- i) The approval is based on the conceptual plan/drawings submitted with the application. In case, there is variation in built-up area/green area/ any other details in the drawings approved by the competent authority, the Project Proponent shall obtain the revised Environmental Clearance.
- ii) The Project Proponent shall ensure that the natural drainage channels in the project site including streams, drains, choes, creeks, rivulets, etc. are not disturbed so that the natural flow of rainwater, etc is not impeded or disrupted in any manner.
- iii) Authorization from Punjab Pollution Control Board shall be obtained as applicable under the Bio-Medical Waste Management Rules 2016 as amended from time to time.
- iv) The solid waste other than Bio-Medical Waste & Hazardous Waste (dry as well as wet garbage) generated should be properly collected and segregated before disposal to Municipal Authorities in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2000. No municipal waste should be disposed off outside the premises in contravention of relevant rules and by-laws. Adequate measures should be taken to prevent any malodour in and around the Project premises.
- v) In the event that the project proponent decides to abandon/close the Project at any stage, he shall submit an application in the prescribed form along with requisite documents through Parivesh to SEIAA for surrendering the Environmental Clearance as per the procedure prescribed in OM dated 29.03.2022 issued by the MoEF&CC. The project proponent shall be accountable for adherence/compliance of the EC conditions till such time as the project is finally closed by SEIAA, based upon the certified closure report of Integrated Regional Offices (IROs) of MoEF&CC, Chandigarh/PPCB.
- vi) This Environmental Clearance is liable to be revoked without any further notice to the Project Proponent in case of failure to comply with condition (v) above.
- vii) Concealing factual data or submission of false/fabricated data may result in revocation of this Environmental Clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- viii) The Ministry reserves the right to stipulate additional conditions if found necessary. The Promoter Company in a time bound manner shall implement these conditions.
- ix) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other

wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.

- x) Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**Item No. 232.06:** Application for Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of New Steel manufacturing unit for production of structural steel (round, coil, wire rode, TMT bars, square, flats and profile) by installing 2 no. of rolling mills having capacity 20TPH each or 300TPD each at Village Barmalipur and Jaspalon, Doraha, Khanna Road, Tehsil Khanna, District Ludhiana by M/s Arora Iron & Steel Rolling Mills Pvt. Ltd. (Proposal No. SIA/PB/IND1/404794/2022).

The industry is a new steel rolling mill which is going to be established in the revenue state of village Barmalipur & Jaspalon, Doraha, Khanna Road, Tehsil Khanna in an area of 31746 sqm. at an estimated cost of Rs. 47.8 Cr.

The industry has obtained consent to establish under the provisions of the Water Act, 1974 and Air Act 1991 from Punjab Pollution Control Board on 19.05.2022 which is valid up to 18.05.2023 for production of 2,10,000TPA of MS rounds/bars/flats/squares.

The industry was granted terms of reference (ToR) for carrying out EIA study for obtaining environmental clearance vide SEIAA Letter No. SEIAA/MS/2022/911 dated 08.09.2022.

The industry has submitted application form along with final EIA Report after incorporating the compliance of ToR issued to the industry and other relevant documents. The industry has deposited Rs. 1,19,500/- vide UTR No. N209222054593279 dated 28.07.2022 and remaining Rs. 3,58,500/- vide UTR No. N28622216208929 dated 13.10.2022. The adequacy of the fee deposited by the Project Proponent has been checked and verified by the supporting staff SEIAA.

#### **Deliberations during 232<sup>nd</sup> meeting of SEAC held on 14.11.2022.**

The meeting was attended by the following:

- (i) Sh. Raminderpal Singh, MD, M/s Arora Iron & Steel Rolling Mills Pvt. Ltd.
- (ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
- (iii) Sh. Sandeep Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEAC allowed the Environmental Consultant of the project proponent to present the salient features of the proposal as under:

Sr. No.	Description	Details
<b>1</b>	<b>Basic Details</b>	
1.1	Name of Project & Project Proponent:	M/s Arora Iron and Steel Rolling Mills (P) Limited (Unit-II) Sh. Raminder Pal Singh Dua Director
1.2	Proposal:	<b>SIA/PB/IND1/404794/2022</b>

1.3	Location of Industry:	Village-Barmalipur and Jaspalon, Tehsil- Payal road, Khanna, District- Ludhiana, Punjab										
1.4	Details of Land area & Built up area:	Total land area – 31746Sqm										
1.5	Category under EIA notification dated 14.09.2006	B1										
1.6	Cost of the project	Rs. 47.8 Crores										
1.7	Compliance of Public Hearing Proceedings	NA										
<b>2.</b>	<b>Site Suitability Characteristics</b>											
2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	The site of the industry falls in industrial area as per the Master Plan Khanna.										
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	A copy of certificate of in-principle approval in the name of the industry issued by District Industry Centre, Ludhiana vide Memo no. 613 dated 02.03.2022 submitted.										
<b>3</b>	<b>Forest, Wildlife and Green Area</b>											
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	The industry has submitted an undertaking to the effect that no area is involved under Forest land. However, the Project Proponent has submitted the receipt of the application filed for diversion of 0.0162ha of forest land for approach road to M/s Arora Iron & Steel Rolling Mills Pvt. Ltd.										
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No land area of the industry falls within the provisions of Punjab Land Preservation Act (PLPA) 1900. Undertaking for the same submitted.										
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife area is involved in the vicinity or study area of the project site. Undertaking for the same submitted.										
3.4	Distance of the industry from the Critically Polluted Area.	Critical Polluted area of Ludhiana is 20km away from the project site.										
3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. (Specify the distance from the nearest Eco sensitive zone)	Not applicable										
3.6	Green area requirement and proposed No. of trees:	Green area: 11000 sqm Proposed number of trees- 1650										
<b>4.</b>	<b>Configuration &amp; Population</b>											
4.1	Proposal & Configuration	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Equipment's / Machinery</th> <th>Proposed</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			Sr. No.	Equipment's / Machinery	Proposed	Total				
Sr. No.	Equipment's / Machinery	Proposed	Total									



		1.	Rolling Mill with independent reverberatory furnace	2X20TPH	2X20TPH
		2.	D.G. Sets (03 Nos.)	62.5KVA, 125KVA, 250KVA	62.5KVA, 125KVA, 250KVA
4.2	Population details	Employment- 105			
<b>5</b>	<b>Water</b>				
5.1	Total fresh water requirement:	Total Water requirement- 36.2 KLD Domestic water demand- 4.2 KLD			
5.2	Source:	Tubewell			
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) <i>Details thereof</i>	Permission for abstraction of 40 KLD groundwater from PWRDA obtained.			
5.4	Total water requirement for domestic purpose:	Total Water requirement for domestic purpose – 4.2 KLD			
5.4.1	<i>Total wastewater generation:</i>	Effluent Generation-3.4 KLD			
5.4.2	<i>Treatment methodology for domestic wastewater: (STP capacity, technology &amp; components)</i>	Treatment for domestic wastewater- STP of 10 KLD and used for plantation			
5.5	Total water requirement for industrial purpose:	NA			
5.5.1	<i>Total effluent generation:</i>	NA			
5.5.2	<i>Treatment methodology for industrial wastewater: (ETP capacity, technology &amp; components)</i>	NA			
5.6	Details of utilization of treated wastewater into green area in summer, winter and rainy season:	Treated waste water from STP will be used for plantation within the industrial premises			
5.7	Utilization/Disposal of excess treated wastewater.	No excess treated wastewater shall be generated.			
5.8	Cumulative Details:				
	<b>Sr. No.</b>	<b>Total water Requirement</b>	<b>Domestic water</b>	<b>Total wastewater generated</b>	
	1.	36.2 KLD	4.2 KLD	32 KLD	

5.9	Rain water harvesting proposal:	<p><b>Outside:</b> The industrial unit has adopted one village pond for rain water harvesting at Village Bulara. The total recharge potential will be 36421.69m<sup>3</sup>/annum. NOC obtained from Sarpanch is submitted.</p> <p><b>Inside:</b> - A tank of 12 KLD is proposed for carrying out rain water harvesting within the industry by collecting water from roof top of the project site.</p>			
6	<b>Air</b>				
6.1	Details of Air Polluting machinery:	D.G. set, Rolling mill			
6.2	Measures to be adopted to contain particulate emission/Air Pollution	D.G. Set: - Canopy equipped DG set with adequate height will be installed Rolling Mill: - Alkali scrubber will be installed			
7	<b>Waste Management</b>				
7.1	Total quantity of solid waste generation	Scrap- 18.15 TPD.			
7.2	Details of management and disposal of solid waste (Mechanical Composter/Compost pits)	Will be sold to open market			
7.3	Details of management of Hazardous Waste.	APCD Dust- 0.0024TPD will be sent to TSDF site, Nimbua, Dera Bassi for final disposal.			
8	<b>Energy Saving &amp; EMP</b>				
8.1	Power Consumption:	7000 KW to be met through PSPCL			
8.2	Energy saving measures:	LEDs will be used			
8.3	Details of EMP:	<b>S. No.</b>	<b>Title</b>	<b>Capital Cost Rs. Lakh</b>	<b>Recurring Cost Rs. Lakh</b>
		1	Pollution Control during construction stage	--	1.0
		2	Air Pollution Control (Installation of APCD)	10.0	5.0
		3	Water Pollution Control (Installation of STP @ 10 KLD)	20.0	5.0
		4	Green Belt development	16.50	16.50 (for 3 years)

		5	Noise Pollution Control	3.0	--
		5	Solid/ Hazardous Waste Management	3.0	1.0
		6	Environment Monitoring and Management	3.0	0.50
		7	Occupational Health, Safety and Risk Management	5.0	1.0
		8	RWH	5.0	0.50
		9	CER Activities	15.0	-
		9	Miscellaneous	1.0	---
			<b>TOTAL</b>	<b>81.5 lakh</b>	<b>30.5 Lakh</b>
8.4	Details of CER:	<b>S. No.</b>	<b>Activities</b>	<b>Amount (Rs in Lacs )</b>	
		1.	Rejuvenation of Village Pond- Bulara	15.0	
			<b>Total</b>	<b>15.0</b>	

During meeting, the Project Proponent apprised the Committee that the industry shall install separate APCD comprising of alkali scrubber with adequate stack height for each rolling mill as per the feasibility report of Punjab State Council for Science & Technology.

The Committee was satisfied with the presentation given by the industry and after deliberations, decided to award '**Silver Grading**' to the project proposal under category B1, Activity 3(a) and to forward the application to SEIAA for the establishment of New Steel manufacturing unit for production of structural steel (round, coil, wire rode, TMT bars, square, flats and profile) by installing 2 no. of rolling mills having capacity 20TPH each or 300TPD each at Village Barmalipur and Jaspalon, Doraha, Khanna Road, Tehsil Khanna, District Ludhiana subject to the following conditions as under:-

## 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 Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned Punjab Pollution Control Board.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority/competent authority concerned, in case of withdrawal of groundwater and also in case of use of surface water required for the project. In case of non-grant of permission by CGWA for ground water abstraction, the industry shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from the competent authority.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vii. The project proponent shall comply with the siting criteria, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
- viii. The project proponent shall comply with the CLU conditions imposed by the competent authority, if any.

**iii. Air quality monitoring and preservation**

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

- iii. The project proponent shall install a system to carry out Manual Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to the Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust-generating points including fugitive dust from all vulnerable sources.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly.
- viii. Recycle and reuse of iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration should be ensured.
- ix. The project proponent shall use leak-proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- xii. Design and implementation of the ventilation system for adequate air changes as per the ACGIH document for all tunnels, motor houses, Oil Cellars should be ensured.
- iv. Water quality monitoring and preservation**
  - i. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/ sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
  - ii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.

- iii. The project proponent shall practice rainwater harvesting to the maximum possible extent. For this, 1 no. of pond at Village Bulara having recharge potential of volume @ 36421.69 cubic meter shall be adopted to recharge the water. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytorid plants trench (designed based on the technology developed by CSIR-NEERI's) divided into different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to the purification of water and collected into the pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.
- iv. The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- v. Noise monitoring and prevention**
  - i. Noise level survey shall be carried as per the prescribed guidelines and the report in this regard shall be submitted to the Regional Officer of the Ministry as a part of six-monthly compliance report.
  - ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- vi. Energy Conservation measures**
  - i. The project proponent shall practice hot charging of slabs and billets/blooms as far as possible.
  - ii. The project proponent shall provide solar power generation on rooftops of buildings, solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
  - iii. The project proponent shall provide the for LED lights in their offices and residential areas.
  - iv. The Project Proponent shall practice hot charging of slabs and billets/blooms as far as possible.
- vii. Waste management**
  - i. Used refractories shall be recycled as far as possible.
  - ii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.

iii. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.

iv. Kitchen waste shall be composted or converted to biogas for further use.

**viii. Green Belt**

i. Green belt shall be developed in an area of 11000 Sqm (equal to 33 % of the plant area) with native tree species in accordance with SEIAA guidelines. Total 1650 tall saplings (minimum 6 feet height) of indigenous species such as Neem, Drek, Kusum, Kadam, Banyan, Peepal, Amaltas, Arjun, Chakarasia etc will be planted.

**ix. Public hearing and Human health issues**

i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.

iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

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

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

**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 for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions to all / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of Senior Executive, who will directly report to the head of the organization.

iii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by

competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and will not be diverted for any other purpose. The project proponent shall spend a minimum amount of Rs 93.5 Lakhs towards the capital cost and Rs 45.5 Lakhs/annum towards recurring cost including the environmental monitoring cost for the implementation of EMP as proposed in EMP plan as under:

S. No.	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
1	Pollution Control during construction stage	2	1.0
2	Air Pollution Control (Installation of APCD)	30.0	20.0
3	Water Pollution Control (Installation of STP @ 10 KLD)	10.0	5.0
4	Green Belt development	16.50	16.50 (for 3 years)
5	Noise Pollution Control	3.0	--
5	Solid/ Hazardous Waste Management	3.0	1.0
6	Environment Monitoring and Management	3.0	0.50
7	Occupational Health, Safety and Risk Management	5.0	1.0
8	RWH	5.0	0.50
9	CER Activities	15.0	-
9	Miscellaneous	1.0	---
	<b>TOTAL</b>	<b>93.5 lakh</b>	<b>45.5 Lakh</b>

- iv. Year-wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report along with the Six-Monthly Compliance Report.
- v. Self-environmental audit shall be conducted annually. Every three years third-party environmental audit shall be carried out.



vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.

**xi. Validity**

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

**xii. Miscellaneous**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the SEAC and SEIAA.
- x. No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- xi. The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/ SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/information/monitoring reports..

**XII. Additional Conditions:**

- i. The Project Proponent shall 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. The canopy trees shall also be planted around the parking area to provide shade to the parked vehicles.
- ii. 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.
- iii. The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report.
- iv. The Project Proponent shall install online monitoring system at inlet as well as at the outlet of each APCD for monitoring SPM.
- v. The Project Proponent shall submit compliance of the action plan proposed to address the public hearing issues along with the six-monthly compliance report of EC condition on Parivesh portal.