Proceedings of 256th meeting of State Expert Appraisal Committee (SEAC) held on 21.08.2023 at 11:00 AM in the Conference Hall no. 2, MGSIPA Complex, Sector-26, Chandigarh.

Following were present:

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

Item No. 01: Confirmation of the proceedings of 254th meeting of State Level Expert Appraisal Committee held on 07.08.2023- 08.08.2023.

The proceedings of 254th meeting of State Level Expert Appraisal Committee held on 07.08.2023 and 08.08.2023 was prepared and circulated through email to all the Members. No comments were received from any of the Members. Therefore, SEAC confirmed the same.

Item No. 02: Action taken on the proceedings of the 254th meeting of State Level Expert Appraisal Committee held on 07.08.2023- 08.08.2023.

The action taken on the decisions of 254th meeting of State Level Expert Appraisal Committee held on 07.08.2023 and 08.08.2023 has been completed. SEAC noted the same.

Item No. 256.01: Application for Environmental Clearance of Existing Steel Manufacturing at Village Ambey Majra, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab, Punjab by M/s Rudra Alloys (Proposal No. SIA/PB/IND1/411440/2022).

The industry is an existing unit and was granted Consent to Operate under the provisions of the Air Act, 1981 which is valid up to 30.09.2025. The consent was granted for the manufacturing of 84 MTD of steel Ingots.

The industry was granted Terms of Reference vide letter No. 5083 dated 18.02.2022 for carrying out EIA study for obtaining Environmental Clearance under EIA Notification dated 14.09.2006 for expansion of existing steel manufacturing unit. The industry is covered under category 3(a) of the schedule appended with the EIA Notification dated 14.09.2006. The total cost of the project is Rs. 26.87 Crore.

The industry has submitted EIA/EMP report after incorporating the compliance of Terms of Reference, PFR and other relevant documents through parivesh Portal. The industry is required to deposit Rs. 2,68,700/-. The industry had deposited of Rs. 67,175/- (25%) vide UTR No. N348211752241675 dated 14.12.2021 and now, industry has also deposited of Rs. 2,01,525/- vide UTR No. HDFCR52023052057927034 dated 20.05.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

The public hearing was conducted on 24.01.2023 and the proceedings of the said hearing was conveyed by Punjab Pollution Control Board vide letter No. 10352-55 dated 03.05.2023. The comments pertaining to site suitability are as under:

"Suitability of site:

The existing site of the industry falls in the in industrial zone as observed in the notified master plan of Mandi gobindgarh (2010-31). The industry has not proposed any additional land in its application. Hence the site of the industry is suitable for the proposed expansion project as per sitting guidelines framed by the board.

Adequacy of pollution control board

Air pollution: *The industry has proposed to replace induction furnace of capacity 7 TPH with new induction furnaces of capacity 1X10 TPH, 1X12TPH and 1X15 TPH, rolling mill (1x20 TPH), LRF (1x15 TPH) VD, Concast. It has proposed to install side suction hood, spark arrestor, bag house and ID fan as APCD as per the design of PSCST, Chandigarh.*

Water Pollution: *The industry has proposed domestic effluent generation @ 7 KLD, which will be treated in STP of 10 KLD capacity and further treated water will be used in plantation/green area. The cooling water shall be re-circulated.*

Hazardous Waste: *The industry has proposed generation of hazardous waste of capacity 35.1 @ 0.5 TPD and 5.1@ 0.05 KL/Year, which will be disposed off to authorized re-processor as per hazardous & other wastes (Management & Transboundary Movement) Rules, 2016. The proposed pollution control schemes submitted by the industry for Air and Water pollution are adequate in principle.*

The industry has not purchased any additional land for the expansion of the project and has proposed its expansion in existing premises (28328 sqm) only. *Also, it had submitted proposal for developing green area 9348.24 sqm in existing premises, which is 33.3% of total area of the project and the green area proposed by the industry is adequate.*

Construction Status:

The industry has installed foundation pillars for the proposed expansion at the site."

Deliberations during 256th meeting of SEAC held on 21.08.2023.

The meeting was attended by the following:

(i) Mr. Nitin Gupta, Director M/s Rudra Alloys.
(ii) Dr. Ranjna Sharma, Environmental Consultant M/s. Chandigarh Pollution Testing Laboratory.
(iii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.

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

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	M/s Rudra Alloys Pvt. Ltd. Nitin Naresh Gupta Director
1.2	Proposal:	SIA/PB/IND1/411440/2022
1.3	Location of Industry:	Village-Ambey Majra, Mandigobindgarh, Tehsil- Amloh, District Fatehgarh Sahib, Punjab
1.4	Details of Land area & Built up area:	The total land area is 7 acre or 26685.79 sqm
1.5	Category under EIA notification dated 14.09.2006	The project falls under S.No. 3(a) – Metallurgical Industries
1.6	Cost of the project	Existing –Rs. 6.87 Cr Proposed – Rs. 20.0 Cr **Total - Rs. 26.87 Cr**
1.7	Compliance of Public Hearing Proceedings	**Compliance** ➢ The public hearing was conducted on project site on 24.01.2023. ➢ Public Hearing Notice Published on 23.10.2022 in prominent newspaper namely 'The tribune and 'Rozana Spokesman (Punjab daily). ➢ Total 80 persons attended the public hearing. Following issues were raised during public hearing 1. Greenbelt 2. Air and Water Pollution

		3. Employment 4. Health and Safety of Workers. 5. Environmental activities Detailed Action Plan along with timeline and Budget allocation is given as **Annexure I.**
2.	**Site Suitability Characteristics**	
2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	Yes, the site falls in approved existing Industrial zone
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	The project falls in Industrial area as per the Master Plan of Mandi Gobindgarh. The industry is an existing unit and has not proposed to increase area for carrying out expansion.
3	**Forest, Wildlife and Green Area**	
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No forest land is involved in the project. An undertaking in the prescribed format submitted.
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, the industry does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900. An undertaking in the prescribed format submitted.
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife sanctuary is involved in the vicinity or study area of the project site. An undertaking in the prescribed format submitted.
3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. (Specify the distance from the nearest Eco sensitive zone)	Not applicable
3.6	Green area requirement and proposed No. of trees:	33% i.e., 8825.71m2 of total area as per MoEF&CC stipulated norms will be developed as the green belt. A total of 1324 trees will be planted. Out of which 300 plants have already been planted. Thus, 1024 trees need to be planted more.
4.	Raw material, Products and Machinery details are as under:	

S.No.	PARTICULARS	EXISTING	PROPOSED	TOTAL
A.	**PROPOSED CAPACITY OF FURNACES & ROLLING MILLS**			
1.	Induction Furnace	1X7TPH (upgraded)	1X10 TPH, 1X12, 1X15 TPH	1X10 TPH, 1X12, 1X15 TPH
2	Annealing Furnaces	2x20 TPH and 1x30 TPH	Nil	2x20 TPH and 1x30 TPH
2.	Rolling mill	Nil	20 Ton/hr.	20 Ton/hr.
3.	Laddle Refining Furnace (LRF)	Nil	15TPH	15TPH
4.	Concast	Nil	01 No.	01 No.
5.	VD	Nil	01 No.	01 No.
B.	**PRODUCTS (TPA)**			
	Steel Ingots/billets, Angles, Channels, Rounds, Square, TMT, Bars, Flats, Patra	29,400 (Steel ingots)	1,26,000	1,55,400
C.	**RAW MATERIAL (TPA)**			
1.	MS Scrap, CI, Sponge Iron, Ferro Alloys	32,200	1,40,350	1,72,550
D.	**GENERALS**			
1.	Project Cost (Crores)	Rs. 6.87	Rs. 20.0	Rs. 26.87
2.	Land	7.0 acres or 26685.79 sqm	Nil	7.0 acres or 26685.79 sqm
3.	Power (KW)	4100	8000	12,100
4.	Manpower (Nos.)	100	100	200
5.	Working days	350 working days in year		

4.1		
4.2	Population details	Existing Manpower – 100 Additional - 100 Total- 200
5	**Water**	
5.1	Total water requirement:	257 KLD
5.2	Source:	Own Tube Well
5.3	Whether Permission obtained for	Permission to PWRDA is already been filed and is under process.

<table>
<tr><td></td><td>abstraction/supply of the fresh water from the Competent Authority (Y/N)
Details thereof</td><td></td></tr>
<tr><td>5.4</td><td>Total water requirement for domestic purpose:</td><td>9 KLD</td></tr>
<tr><td>5.4.1</td><td>Total wastewater generation:</td><td>Industrial Effluent – Nil
Domestic wastewater – 7.2 KLD</td></tr>
<tr><td>5.4.2</td><td>Treatment methodology for domestic wastewater:
(STP capacity, technology & components)</td><td>No waste water is generated from the industrial operations. However, 7.2 KLD domestic waste water will be treated is STP of capacity 10 KLD and used in landscaping and plantation.</td></tr>
<tr><td>5.5</td><td>Total water requirement</td><td>Total Water requirement- 257 KLD</td></tr>
<tr><td>5.5.1</td><td>Total effluent generation:</td><td>There are no generations of effluents from process.</td></tr>
<tr><td>5.5.2</td><td>Treatment methodology for industrial wastewater:
(ETP capacity, technology & components)</td><td>NA</td></tr>
<tr><td>5.6</td><td>Details of utilization of treated wastewater into green area in summer, winter and rainy season</td><td>The wastewater generated from domestic will be treated through STP and will be used for plantation within premises.</td></tr>
<tr><td>5.7</td><td colspan="2">Cumulative Details: Water Consumption for Summer (KLD)
<table>
<tr><th>Description</th><th>Existing (KLD)</th><th>Proposed (KLD)</th><th>Total (KLD)</th></tr>
<tr><td>Domestic</td><td>4.5 KLD</td><td>4.5 KLD</td><td>9 KLD</td></tr>
<tr><td>Cooling (makeup water)</td><td>20.0 KLD</td><td>228 KLD</td><td>248 KLD</td></tr>
<tr><td>Total</td><td>24.5 KLD</td><td>232.5 KLD</td><td>257 KLD</td></tr>
</table>
Water Consumption for Winter & Rainy (KLD)
<table>
<tr><th>Description</th><th>Existing (KLD)</th><th>Proposed (KLD)</th><th>Total (KLD)</th></tr>
<tr><td>Domestic</td><td>4.5 KLD</td><td>4.5 KLD</td><td>9 KLD</td></tr>
<tr><td>Cooling (makeup water)</td><td>20.0 KLD</td><td>152 KLD</td><td>172 KLD</td></tr>
<tr><td>Total</td><td>24.5 KLD</td><td>156.5 KLD</td><td>181 KLD</td></tr>
</table></td></tr>
<tr><td>5.8</td><td>Rain water harvesting proposal:</td><td>Outside: The industrial unit has adopted one village pond for rain water harvesting. The total recharge potential will be 52,500 KL/Annum. NOC obtained from Sarpanch is submitted. Further, all the waste water of nearby village which will be directed towards the village pond will be first treated in trenches through CSIR-NEERI’s Phytorid waste water treatment technology and overflow water will be discharged into the pond.</td></tr>
</table>

<table>
<tr><td></td><td></td><td>Inside: - A tank of 12 KLD is proposed for inside rain water harvesting using roof top of the project site.</td></tr>
<tr><td>6</td><td colspan="2">Air</td></tr>
<tr><td>6.1</td><td colspan="2">Details of Air Polluting Machinery and APCDs installed are as under:
<table>
<tr><th colspan="4">EXISTING</th></tr>
<tr><th>S.No.</th><th>Source</th><th>Existing</th><th>APCD</th></tr>
<tr><td>1.</td><td>Induction Furnace</td><td>1X 7TPH (to be replaced)</td><td>Bag Filters</td></tr>
<tr><td>2.</td><td>Annealing furnaces</td><td>2x20 TPH
1x30 TPH</td><td>PNG</td></tr>
<tr><td>2.</td><td>DG Set</td><td>1X160KVA</td><td>Stack with adequate height</td></tr>
<tr><th colspan="4">AFTER EXPANSION</th></tr>
<tr><th>S.No.</th><th>Source</th><th>After Expansion</th><th>APCD</th></tr>
<tr><td>1.</td><td>Induction Furnace</td><td>1x10 TPH,
1x15 TPH</td><td>Pulse Jet Bag filters with offline Technology</td></tr>
<tr><td>2</td><td>Induction Furnace</td><td>1x12 TPH</td><td>Pulse Jet Bag filters with offline Technology</td></tr>
<tr><td>3</td><td>Induction Furnace</td><td>1x15 TPH</td><td>Pulse Jet Bag filters with offline Technology</td></tr>
<tr><td>4.</td><td>Annealing furnaces</td><td>2x20 TPH
1x30 TPH</td><td>PNG</td></tr>
<tr><td>5.</td><td>Rolling Mill</td><td>1x20 TPH</td><td>PNG</td></tr>
<tr><td>6.</td><td>Concast Machine</td><td>01 No.</td><td>--</td></tr>
<tr><td>7.</td><td>DG Set</td><td>1x160 KVA</td><td>Stack with adequate height</td></tr>
</table></td></tr>
<tr><td>7</td><td colspan="2">Waste Management</td></tr>
<tr><td>7.1</td><td>Total quantity of solid waste generation</td><td>
<table>
<tr><th colspan="4">Solid Waste</th></tr>
<tr><th>Sr No.</th><th>Waste Category</th><th>After Expansion</th><th>Disposal</th></tr>
<tr><td>1.</td><td>Slag</td><td>40.0 TPD</td><td>Slag after Iron recovery will be sent to M/s Bittu Ram Contractor manufacturer of tiles</td></tr>
</table></td></tr>
</table>

<table>
<tr><td></td><td></td><td><table><tr><td></td><td></td><td></td><td>for final disposal under proper agreement.</td></tr></table></td></tr>
<tr><td>7.2</td><td>Details of management and disposal of solid waste (Mechanical Composter/Compost pits)</td><td>Disposal of Solid waste will be as per MSW rules, 2016</td></tr>
<tr><td>7.3</td><td>Details of management of Hazardous Waste.</td><td><table>
<tr><th colspan="5">Solid/ Hazardous Waste</th></tr>
<tr><th>S.No.</th><th>Waste Category</th><th>Existing</th><th>After Expansion</th><th>Disposal</th></tr>
<tr><td>1.</td><td>35.1
Flue gas Cleaning residue</td><td>0.023 TPD</td><td>1.3 TPD</td><td>The dust generated from APCD is being/will be stored in impervious pit and sent to M/s Madhav Alloys Pvt Ltd under proper agreement.</td></tr>
<tr><td>2.</td><td>Used Oil</td><td>0.01kl/annum</td><td>0.01 kl/annum</td><td>Will be used as lubricant within the industry</td></tr>
</table></td></tr>
<tr><td>8</td><td>Energy Saving & EMP</td><td></td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>Existing – 4100 KW
Additional – 8000 KW
After Expansion – 12,100 KW
Source - Punjab State Power Corporation Limited, Punjab</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>LEDs have been proposed to be used instead of CFLs.</td></tr>
<tr><td>9.</td><td>CER Activities</td><td>CER activities- Based on Public hearing issues the following CER activity will be carried out
<table>
<tr><th>Sr. No.</th><th>Activities</th><th>Timeline</th><th>Budget Allocation (In Rs)</th></tr>
<tr><td>1.</td><td>Construction of walls in government Primary School</td><td rowspan="2">Within One year after grant of EC</td><td rowspan="2">Rs 20.0 Lakhs</td></tr>
<tr><td>2.</td><td>Construction of walls in Dispensary of Ambey Majra</td></tr>
</table></td></tr>
</table>

		Total	**Rs 20.0 Lakhs**

10. **EMP BUDGET**

S. No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
1	Pollution Control during construction stage	5.0	2.0
2	Air Pollution Control (Installation of APCD)	240.0	20.0
3	Water Pollution Control/ STP up-gradation	15.0	5.0
4	Noise Pollution Control	10	0.50
5	Landscaping/ Green Belt Development	10.24	13.24
6	Solid Waste Management	10.0	10.0
7	Environment Monitoring and Management	5.0	3.0
8	Occupational Health, Safety and Risk Management	10.0	2.0
9	RWH	10.0	0.10
10	Miscellaneous	4.0	--
11	**Additional Environmental Activities**	**20.0**	
	TOTAL	**339.24**	**55.84**

Sr. No.	Detail of query/ statement/ information/ clarification sought by the person present	Action Plan	Time Line And Budget Allocation
1.	Mr. Malkit Singh, social worker village Ambey Majra asked about the saplings already planted by industry and the social work done in the village? Apart from this, Mr. Malkit Singh also expressed his opposition to the expansion of project?	A minimum 33% i.e. 8825.71 sqm of project area is required to be developed as greenbelt. However, Industry has already developed 2000 m^2 of project area by planting 300 number of trees. In the remaining area of 6825.71m^2 Plants will be planted of different species	**<u>Greenbelt</u>** Timeline- After outset of the forth coming monsoon season. Budget Allocation– Rs. 10.24 Lakhs as capital cost and Rs 13.24 lakhs for 3 years as recurring cost under EMP cost.

		As far as social work is concerned, the industry has done welfare activities such as 1. Running Charitable Hospital by name Shree Sant Ashram in village Amloh. 2. Running a Charitable School by name Pujya Shri Gian Muni Jain Public School in Shanti Nagar, Mandi Gobindgarh. 3. Donating Money in Cowshed In addition to above, following Additional Environmental activities will be carried out within a period of three years. 1. Construction of walls of Government school, Ambey Majra 2. Construction of walls of Dispensary of Village Ambey Majra.	**<u>Additional Environmental Activities</u>** **Timeline-** Within three years after grant of EC. **Budget Allocation- Rs** 20.0 Lakhs has been kept for Additional Environmental Activities
2.	Mr. Malkit Singh, Social Worker Village Ambey Majra gain asked about the saplings planted and the work done by the industries such as Oasis Enterprises, Bhawani Industries and Fortune Metals after 2006.	A minimum 33% i.e. 8825.71 sqm of project area is required to be developed as greenbelt. However, Industry has already developed 2000 m^2 of project area by planting 300 number of trees. In the remaining area of 6825.71m^2 Plants will be planted of different species As far as social work is concerned, the industry has done welfare activities such as 1. Running Charitable Trust by name Shree Sant Ashram in village Amloh. 2. Running a Charitable School by name Pujya Shri Gian	**<u>Greenbelt</u>** Timeline- After outset of the forth coming monsoon season. Budget Allocation– Rs. 10.24 Lakhs as capital cost and Rs 13.24 lakhs for 3 years as recurring cost under EMP cost. **<u>Additional Environmental Activities</u>** **Timeline-** Within three years after grant of EC. **Budget Allocation- Rs** 20.0 Lakhs has been kept for

		Muni Jain Public School in Shanti Nagar, Mandi Gobindgarh. 3. Donating Money in Cowshed In addition to above, following Additional Environmental activities will be carried out within a period of three years. i. Construction of walls of Government school, Ambey Majra ii. Construction of walls of Dispensary of Village Ambey Majra.	Additional Environmental Activities
3.	Mr. Tejwant Singh, village Talwara said that the promises made by the factories In their area are not fulfilled and their issues were not heard by the Regional Office Mandi Gobindgarh. After which, communication was done with the DC office and a meeting was held at the SDM office, in which they took their elders of the village but the factory owners did not come themselves but instead sent their men. The SDM office has also not given solution to their problems. Apart from this, the water generated from industries stands on the road due to which the villagers face difficulty in passing, the trucks coming in industry stand on the road and their drivers misbehave with the ladies of the village. Also, industry spreads air pollution in the area and does not keep the hood on the furnace. The promises	Presently, 3.6 KLD of domestic effluent is being generated, which is treated in septic tank. After the treatment the entire domestic water is mixed with cooling blowdown water, which is used for plantation. Thus, no wastewater is being discharged outside the premises. After Expansion, a total 7.2 KLD of domestic effluent will be generated. The same shall be treated in STP of capacity 10 KLD. After treatment, domestic water will be mixed with cooling blowdown water and will be used for plantation. After expansion also, no wastewater will be discharged outside the industry. A proper record will be maintained in this regard. An area of 801.74 m^2 is kept for transporting parking. All kind of loading and unloading will be done inside the premises only. No truck will be allowed to park along outside the road which	**<u>For STP</u>** **Budget Allocation –** For STP- Rs 15.0 Lakhs as capital cost and Rs 5.0 Lakhs as recurring cost. **Timeline-** As soon as expansion will take place.

	made by industry have not been fulfilled and the villagers are facing problems.	may cause inconvenience to villagers. Fixed type Side Suction Hood will be a part of APCD and the system will be installed during construction phase. This fixed type hood will remain in position at all the times for collection and suction of emissions. To contain the concentration of pollutants within the prescribed standards, bag filer house as APCD will be installed. Also, OCEMS will be provided on the stack of this APCD for real time monitoring of the conc. of PM in the emissions, which will be attached with the server of the PPCB and CPCB. Following Additional Environmental activities will be carried out within a period of three years. 1. Construction of walls of Government school, Ambey Majra 2. Construction of walls of Dispensary of Village Ambey Majra. All the activities listed above will be fulfilled. The same shall be complied in the six-monthly compliance.	**<u>For APCD</u>** **Budget Allocation** Rs 240 Lakhs as capital cost and Rs 20 Lakhs as recurring cost. **Timeline-** before commissioning of the expansion plan of the unit. **<u>Additional Environmental Activities</u>** **Timeline-** Within three years after grant of EC. **Budget Allocation- Rs** 20.0 Lakhs has been kept for Additional Environmental Activities
4.	Mr. Tejwant Singh, village Talwara again questioned that the industries do not put hood on the furnace, therefore, the complete concentration of emissions from the Chimney cannot be measured.	Fixed type Side Suction Hood will be a part of APCD and the system will be installed during construction phase. This fixed type hood will remain in position at all the times for collection and suction of emissions. To contain the conc. of pollutants within the prescribed standards, bag filer house as APCD will be installed. Also,	**<u>For APCD</u>** **Budget Allocation** Rs 240 Lakhs as capital cost and Rs 20 Lakhs as recurring cost. **Timeline-** before commissioning of the expansion plan of the unit.

		OCEMS will be provided on the stack of this APCD for real time monitoring of the conc. of PM in the emissions, which will be attached with the server of the PPCB and CPCB.	
5.	Mr. Malkit Singh Social Worker, Village Ambey Majra, asked if industry can be located in residential area and within MC limit.	As per master plan of master plan of Mandi Gobindgarh (2010-2031), M/s Rudra Alloys falls in the Industrial zone of the notified Master Plan of Mandi Gobindgarh.	-
6.	Mr. Tejwant Singh, Village Talwara asked that the pollution that industrial emissions has a limit and if it emits more than that, then a fine is imposed on it.	The compliance of discharge standards will be ensured at all the time. Further, OCEMS will be installed to monitor the real time level of PM in the emissions, which will be connected to server of CPCB and PPCB. Therefore, there is no scope the exceedance of PM level in the emission beyond the prescribed standards.	**For OCEMS** **Budget Allocation:** Rs.10 Lakhs. **TimeLine:** Before commissioning of expansion plan of the unit.
7.	Mr. Tejwant Singh, village Talwara asked that there is chemical addition in the water of the cooling tower and the plants cannot be given this water.	No chemical will be added in the cooling water as only soft water will be used in the cooling tower as make up water. Therefore, the blow down of the cooling tower will not contain any kind of chemical contamination. 3.6 KLD of domestic effluent is being generated, which is treated in septic tank. After the treatment the entire domestic water is mixed with cooling blowdown water, which is used for plantation. After Expansion, a total 7.2 KLD of domestic effluent will be generated. The same shall be treated in STP of capacity 10 KLD. After treatment, domestic water will be mixed with cooling	**For STP** **Budget Allocation –** For STP- Rs 15.0 Lakhs as capital cost and Rs 5.0 Lakhs as recurring cost. **Timeline-** As soon as expansion will take place.

		blowdown water and will be used for plantation.	
8.	Mr. Gurdeep Singh, village Ambey Majra said that he has no objection for the increase to the existing unit. He demanded that four walls of the school and the dispensary of the village be constructed by the unit.	The industry will construct walls of the school and Dispensary	**Additional Environmental Activities** **Timeline-** Within three years after grant of EC. **Budget Allocation- Rs** 20.0 Lakhs has been kept for Additional Environmental Activities
9.	Mr. Praveen Kumar, shopkeeper of village Ambey Majra asked how the industry shall take care about the security of factory workers.	➢ Occupational health checkup will be done from time to time ➢ Worker will be provided with PPE kits and no worker will be permitted to work in work zone without all safety equipment.	**Budget Allocation-** Rs 10.0 Lakhs has been kept as capital cost under Occupational Health, Safety and Risk management and Rs 2.0 Lakhs as recurring cost. **Timeline-** As soon as expansion will take place.
10.	Mr. Gurdeep Singh of village Ambey Majra requested that with the expansion of industry, employment should be provided to the youth of the village on priority basis.	As of now, total 100 works are employed by M/s Rudra Alloys Pvt ltd. Further, Expansion will bring additional employment for 100 people. Local people will be preferred based on their qualification and their respective experiences.	**TimeLine:** Before start of expansion plan project.

The Committee perused the proceedings of the public hearing of the industry held on 24.01.2023 along with proposed action plan for compliance of the queries sought by the general public during the public hearing. One of the residents of Village Talwara, Sh. Tejwant Singh pointed out that the trucks coming in the industry stand on road. To this query, the industry has mentioned in the action plan that the industry shall leave parking area of 801.74 sqm for transport parking. However, as per the application, the industry has proposed to leave only 603.03 sqm for transport parking. The Committee asked the industry to clarify the same and submit proper justification. In this regard, the industry apprised the Committee that total No. of 19 trucks/day carrying either raw material or product shall remain in movement. At a time, only 3-4 trucks shall be parked inside the industrial premises for loading & unloading purposes. The parking space of approximately 70 sqm is required for parking of one truck, as such, parking space of 603.03 sq.m shall be sufficient for 8 trucks. The Committee noted the same.

The Committee observed that the industry has already installed 500 KW solar panels in the area proposed to be developed as green area. The industry apprised the Committee that the solar panels of 500 KW capacity shall be shifted to the roof top of the industrial sheds. Therefore, the proposed green area shall remain intact. The industry submitted an undertaking in this regard which was taken on record by the Committee.

The Committee was satisfied with the presentation given by the Project Proponent and after detailed deliberations, the Committee decided to award **'Silver Grading'** to the project proposal and decided to forward the application of the project proponent to SEIAA with the recommendation to grant Environmental Clearance for expansion of Existing Steel Manufacturing at Village Ambey Majra, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab, Punjab by M/s Rudra Alloys, subject to the following standard conditions:

I. Statutory compliance

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

ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site Specific Conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).

iv. The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned Punjab Pollution Control Board.

v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority/competent authority concerned, in case of withdrawal of groundwater and also in case of use of surface water required for the project. In case of non-grant of permission by CGWA for ground water abstraction, the industry shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from the competent authority.

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

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

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

II. Air quality monitoring and preservation

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

ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

iii. The project proponent shall install a system to carry out Manual Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.

iv. The project proponent shall submit monthly summery report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to the Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.

v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust-generating points including fugitive dust from all vulnerable sources.

vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly.

viii. Recycle and reuse of iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration should be ensured.

ix. The project proponent shall use leak-proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.

xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.

xii. Design and implementation of the ventilation system for adequate air changes as per the ACGIH document for all tunnels, motor houses, Oil Cellars should be ensured.

III. Water quality monitoring and preservation

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

ii. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.

iii. The project proponent shall practice rainwater harvesting to the maximum possible extent. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytorid plants trench (designed based on the technology developed by CSIR-NEERI's) divided into different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to the purification of water and collected into the pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.

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

IV. Noise monitoring and prevention

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

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

V. Energy Conservation measures

i. The project proponent shall practice hot charging of slabs and billets/blooms as far as possible.

ii. The project proponent shall provide solar power generation on rooftops of buildings, solar light system for all common areas, street lights, parking around project area and maintain the same regularly.

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

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

VI. Waste management

i. Used refractories shall be recycled as far as possible.

ii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.

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

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

VII. Green Belt

i. Green belt shall be developed in an area of 8825.71sqm (equal to 33% of the plant area) with native tree species in accordance with SEIAA guidelines. Total 1024 tall saplings (minimum 6 feet height) of indigenous species will be planted.

VIII. Public hearing and Human health issues

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

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

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

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

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

IX. Environment Management Plan

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

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

iii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and will not be diverted for any other purpose. An action plan for implementing following activities under EMP, Additional Environmental Activities and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority.

S. No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
1	Pollution Control during construction stage	5.0	2.0
2	Air Pollution Control (Installation of APCD)	240.0	20.0
3	Water Pollution Control/ STP up-gradation	15.0	5.0
4	Noise Pollution Control	10	0.50
5	Landscaping/ Green Belt Development	10.24	13.24
6	Solid Waste Management	10.0	10.0
7	Environment Monitoring and Management	5.0	3.0
8	Occupational Health, Safety and Risk Management	10.0	2.0
9	RWH	10.0	0.10
10	Miscellaneous	4.0	--
11	**Additional Environmental Activities**	**20.0**	
	TOTAL	**339.24**	**55.84**

iv. Year-wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report along with the Six-Monthly Compliance Report.

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

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

X. Validity

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

XI. Miscellaneous

i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently.

ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

iv. The project proponent shall monitor the criteria pollutants level namely; PM_{10}, SO_2, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.

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

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

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

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

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

x. No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

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

XII. Additional Conditions:

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

ii. The Project Proponent shall install online monitoring system at inlet as well as at the outlet of each APCD for monitoring SPM.

iii. The Project Proponent shall submit compliance of the action plan proposed to address the public hearing issues along with the six-monthly compliance report of EC condition on Parivesh portal.

Item No. 256.02: Application for Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of commercial Project namely "Jubilee Westgrove" at Village Bairampur, SAS Nagar, Punjab by M/s Jubilee Joy Homes LLP (Proposal No. SIA/PB/INFRA2/405718/2022).

The Project Proponent has proposed to establish commercial project at Village Bairampur, SAS Nagar, Punjab, in the total land area of 10 acres having built up area of 65149 sqm. The Project is covered under Activity 8(a) & Category 'B2' as per EIA notification-2006.

The Project Proponent has submitted the application form and other additional documents along with processing fee amounting to Rs. 130298/- vide UTR No. N346222244421663 dated 12.12.2022, as checked & verified by the supporting staff SEIAA.

The Project Proponent has submitted the conceptual plan wherein total plot area has been mentioned as 10 acres having built up area of 65149 sq.m. The total green area shall be 2817.3 sqm. As per the conceptual plan, 500 service apartments, 42 SCOs and 106 shops are proposed to be constructed.

Punjab Pollution Control Board vide letter no. 82 dated 03.01.2023 has sent the latest construction status report with details as under:

"Accordingly, the site was visited by the officer of the Board on 21/12/2022 and it was observed as under:

1. *No site development work has been started at the site. The site is located on Kharar Banur Road. The project proponent has provided demarcation of the site using tin sheds on one side. On the back side of the project site, Chandigarh Group of College, Landran have been established. Lakhnaur drain passes through some part of the project site.*
2. *The project proponent has installed one DG set of 30 KVA with canopy and inadequate stack height.*
3. *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 located within 100 m of the site. Therefore, the site of the project is conforming to the sitting guidelines laid down by the Govt. of Punjab, Department of Science Technology and Environment vide order dated 25/7/2008 as amended on 30/10/2009.*
4. *GMADA has not laid sewer in the area. Further, the project proponent has not submitted any alternate scheme for the disposal of treated effluent."*

1.0 Deliberations during 236th meeting of SEAC held on 09.01.2023.

The meeting was attended by the following:

(i) Sh. A.S Rathore, AGM M/s Jubilee Joy Homes LLP.

(ii) Sh. Deepak Gupta, Environmental Advisor.

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

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

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	Jubilee Westgrove JUBILEE JOY HOMES LLP
1.2	Proposal:	SIA/PB/MIS/122453/2019
1.3	Location of Project:	Village Bairampur, Kharar Landran Road, Mohali, District- SAS Nagar, Tehsil- Derabassi, Punjab
1.4	Details of Land area & Built up area:	Plot area = 40483.27 Built up area = 65149 sqm
1.5	Category under EIA notification dated 14.09.2006	8 (a)
1.6	Cost of the project	INR 115.92 Crores
2.	**Site Suitability Characteristics**	
2.1	Whether project is suitable as per the provisions of Master Plan:	The site of project falls in the mix land use zone as per the Master Plan of Mohali and the permission for change of land use (CLU) for the same is obtained vide memo no. 1733 - DTP(SAS Nagar) dated 12-09- 22 from Department of Town & Country Planning, Punjab for the total land area measuring 10 acres.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	As per above
3	**Forest, Wildlife and Green Area**	
3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	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.

<table>
<tr><td>3.3</td><td>Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:</td><td>No, a self-declaration in this regard submitted.</td></tr>
<tr><td>3.4</td><td>Whether the project falls within the influence of Eco-Sensitive Zone or not.</td><td>No</td></tr>
<tr><td>3.6</td><td>Green area requirement and proposed No. of trees:</td><td>Green Area = 2818 sqm
No. of trees proposed = 520 trees</td></tr>
<tr><td>4.</td><td colspan="2">Configuration & Population</td></tr>
<tr><td>4.1</td><td>Proposal & Configuration</td><td>
<table>
<tr><th>Sr. No.</th><th>Descriptions</th><th>Area in Sqm</th></tr>
<tr><td>1.</td><td>Plot area</td><td>40483.27</td></tr>
<tr><td>2.</td><td>Proposed FAR @ 2.7292 of Plot area</td><td>50206.69</td></tr>
<tr><td>3.</td><td>Non-FAR</td><td>14942.31</td></tr>
<tr><td>4.</td><td>Built up area (Non-FAR + FAR)</td><td>65149 sqm</td></tr>
</table>
The above said details area as per the application proposal & Conceptual plan.
</td></tr>
<tr><td>4.2</td><td colspan="2">Population details
<table>
<tr><th>S. No.</th><th>Description</th><th>No. of Blocks</th><th>No. of Dwelling units</th><th>No. of person per unit</th><th>Total Population</th></tr>
<tr><td>1.</td><td>Residential</td><td>1</td><td>500</td><td>1</td><td>500</td></tr>
<tr><td>2</td><td>SCO/ Shops</td><td>6</td><td>148</td><td>i. 1 person/3 sq.m for Ground floor(9783/3)
ii. 1 person/3 sq.m for Ground floor(13744/6)</td><td>(3261+2290) =5551
Out of which 90% (4996) shall be floating population and remaining 10% (555) shall be permanent population</td></tr>
<tr><td colspan="5">Total Population =</td><td>6051</td></tr>
</table>
</td></tr>
<tr><td>5</td><td colspan="2">Water</td></tr>
<tr><td>5.1</td><td colspan="2">Total water demand w.r.t Population:</td></tr>
</table>

		S. No.	**Description**	**No. of DUs/Area (m2)**	**Occupancy**	**Total Water Requirement (KLD)**
		A.	Domestic Water			
			• Residents	500	500	68
			• Shops	148	5551	555@45 lpcd=25 KLD 4996@15 lpcd=75 KLD
			Total			168 KLD
		B	Wastewater generated			134 KLD
			Flushing water requirement *555 persons@20 lpcd* *4996 persons@10 lpcd* *500 persons@45 lpcd*			(11 +50+23)=84 KLD
		C	Treated wastewater disposal			**50 KLD in the green area of 2818 sq.m however the same is not adequate**
5.2	Total fresh water requirement:		84 KLD			
5.3	Source:		Ground water			
5.4	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) Details thereof		Application for obtaining permission of abstraction of 84 KLD of groundwater has been submitted with PWRDA and same is under process.			
5.4	Total wastewater generation:		134 KLD			
5.5	Treatment methodology: (STP capacity, technology)		STP capacity:200 KLD Technology: MBBR Technology Treated waste water: 134 KLD			

<table>
<tr><td>5.6</td><td>Treated wastewater for flushing purpose:</td><td>84 KLD</td></tr>
<tr><td>5.7</td><td>Treated wastewater for green area in summer, winter and rainy season: (Karnal Technology)</td><td>Summer season: 50KLD
Winter season: 50 KLD
Rainy season: 50KLD</td></tr>
<tr><td>5.8</td><td colspan="2">Cumulative Details:
<table>
<tr><th>S. No.</th><th>Total water Requirement</th><th>Total wastewater generated</th><th>Treated wastewater</th><th>Flushing water requirement</th><th>Green area requirement</th></tr>
<tr><td>1.</td><td>168 KLD</td><td>134 KLD</td><td>134 KLD</td><td>84 KLD</td><td>50 KLD</td></tr>
</table>
* The excess treated wastewater shall be utilized for plantation within the project site.</td></tr>
<tr><td>5.9</td><td>Rain water harvesting proposal:</td><td>• Volume of a single Recharge pit = 3 m x 2m x 4 m = 24 KLD
• No. of pits required = 12 Pits
Total 12 Rain Water Harvesting pits being proposed for artificial rain water recharge within the project premises.</td></tr>
<tr><td>6</td><td colspan="2">Air</td></tr>
<tr><td>6.1</td><td>Details of Air Polluting machinery:</td><td>3 No. of DG Sets of capacity 500 KVA ,240 KVA & 125 KVA shall be installed for power backup.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>The said DG sets shall be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.</td></tr>
<tr><td>7</td><td colspan="2">Waste Management</td></tr>
<tr><td>7.1</td><td>Total quantity of solid waste generation</td><td>1310 kg/day</td></tr>
<tr><td>7.2</td><td>Details of management and disposal of solid waste (Mechanical Composter/Compost pits)</td><td>Solid wastes will be appropriately segregated at source by providing bins into recyclable, Bio-degradable Components, and non- biodegradable.
Bio-Degradable waste
1. Bio-degradable waste will be subjected to composting through Organic Waste Converter and the compost will be used as manure. (600 Kg/day capacity)
2. STP sludge is proposed to be used in horticulture.
3. Horticultural Waste is proposed to be composted and used for gardening.

Recyclable waste
i. Grass Recycling – The cropped grass will be spread on green area. It will act as manure after decomposition.
ii. Recyclable waste like paper, plastic, metal etc. will be disposed through local approved recyclers.
Disposal</td></tr>
</table>

<table>
<tr><td></td><td></td><td>Recyclable &non-recyclable waste will be disposed through an authorized service provider/vendor.</td></tr>
<tr><td>7.5</td><td>Details of management of Hazardous Waste.</td><td>Used Oil generated shall be given to the authorized recyclers</td></tr>
<tr><td>8</td><td colspan="2">Energy Saving & EMP</td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>3900 kVA</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>
<table>
<tr><th>Sr. No.</th><th>DESCRIPTION</th><th>SAVINGS (kVA)</th></tr>
<tr><td>1.</td><td>Solar based Lighting will be done in the landscape areas, signage, entry gates and boundary walls etc.</td><td>60</td></tr>
<tr><td>2.</td><td>LEDs for internal lighting</td><td>810</td></tr>
<tr><td colspan="2">Total Energy Saved</td><td>870</td></tr>
<tr><td colspan="3">Total energy consumption = 3900 KW
Energy saved through various provisions = 870 kVA</td></tr>
</table>
</td></tr>
<tr><td>8.3</td><td>Details of activities under Environment Management Plan:</td><td>During construction phase Partner will be responsible and during operation phase, Partner will be responsible for implementation of the EMP.
<table>
<tr><th>COMPONENT</th><th>CAPITAL COST (INR LAKH)</th><th>RECURRING COST (INR LAKH/YR)</th></tr>
<tr><td>Sewage Treatment Plant</td><td>60.0</td><td>6.0</td></tr>
<tr><td>Rain Water Harvesting System</td><td>6.0</td><td>1.0</td></tr>
<tr><td>Solid Waste Management</td><td>15.0</td><td>8.0</td></tr>
<tr><td>Environmental Monitoring</td><td>---</td><td>12.80</td></tr>
<tr><td>Green Area/ Landscape Area</td><td>15.0</td><td>8.0</td></tr>
<tr><td>Total</td><td>96.0</td><td>35.80</td></tr>
</table>
</td></tr>
<tr><td>8.4</td><td>CER details</td><td>No activities under CER has been proposed as per the decision of joint meeting of SEIAA & SEAC.</td></tr>
</table>

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

1. The Project Proponent shall submit the NOC for access road to the project under the provision of the Forest Conservation Act, 1980.
2. The Project Proponent shall submit the revised details of the population by revising the population for studio apartments @ 2 person/studio apartment.
3. The Project Proponent shall revise the estimation of population for SCO/shops by revising the total covered area of the floors (except ground floor).
4. The Project Proponent shall submit the revised details pertaining to water balance for all three seasons and green area proposed to be developed for utilization of the treated wastewater.
5. The Project Proponent shall allocate up to 1% of the total project cost on the following CER activities:
    a) Development of Mini Forests (Nanak Bagchi), raising of Avenue Plantations and Plantations in public/community areas.
    b) Rejuvenation of Village Ponds.
    c) Development of Infrastructure for utilization of treated effluent of STPs.
    d) Provision of solar panels in the Government / Municipal / other public schools, hospitals and Dispensaries, etc.
    e) Rainwater harvesting in Public Buildings.
    f) Alternatives to Single Use Plastic.
    g) Solid waste Management
    h) Other activities relating to amelioration of Air, Water and Soil pollution as prescribed in the applicable District Environment Plan (DEP).
    i) Activities as proposed by the Project Proponent / their accredited consultants for the amelioration of Air, Water, and Soil pollution on the basis of field surveys and approved by SEIAA / SEAC.
6. The Project Proponent shall earmark dedicated area on the layout plan for solid waste management.
7. The Project Proponent shall clearly mark the 572 trees to be planted and the trees to be planted for Karnal Technology in the conceptual plan.

2.0 Deliberations during 238th meeting of SEAC held on 06.02.2023.

The meeting was attended by the following:

(i) Sh. A.S Rathore, AGM M/s Jubilee Joy Homes LLP.

(ii) Sh. Deepak Gupta, Environmental Advisor.

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

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

<table>
<tr><th>Sr. No</th><th>Observations</th><th>Reply</th></tr>
<tr><td>1</td><td>The Project Proponent shall submit the NOC for access road to the project under the provision of the Forest Conservation Act, 1980</td><td>Applied for the same. A copy of the complete set of documents submitted to DFO for obtaining permission under Forest Conservation Act 1980 submitted.</td></tr>
<tr><td>2</td><td colspan="2">The Project Proponent shall submit the revised details of the population by revising the population for studio apartments @ 2 person/studio apartment

Revised calculation of population and water balance is submitted. The details are as under:
<table>
<tr><td>Commercial</td><td></td><td></td></tr>
<tr><td>Total built up area of Ground, floor is 9783 sqm</td><td>Population on the floors @1 person / 3 sqm
9783/3</td><td>3261 persons</td></tr>
<tr><td>Total built up area on rest of the floors 14144 sqm</td><td>Population on the floors @1 person / 6 sqm
14144/6</td><td>2357 persons</td></tr>
<tr><td>Total population</td><td></td><td>5618 persons</td></tr>
<tr><td colspan="2">Floating population @ 90 % of the total population</td><td>5056 Persons</td></tr>
<tr><td colspan="2">Permanent population @ 10 of the total population Approximately</td><td>562 persons</td></tr>
<tr><td>No. of permanent population</td><td>562 persons @45 lit/day</td><td>25 M^3/day</td></tr>
<tr><td>Floating population</td><td>5056
persons @15 lit/day</td><td>76 M^3/day</td></tr>
<tr><td>Total consumption of water Commercial</td><td></td><td>101 M^3/day</td></tr>
<tr><td>Service apartments 500 No@2 person/ apartment</td><td>1000 persons @135 ltr/day</td><td>135 M^3/day</td></tr>
<tr><td>Total Domestic water required</td><td></td><td>236 M^3/day</td></tr>
<tr><td>Total Discharge @ 80% to STP</td><td></td><td>189 M^3/day</td></tr>
<tr><td>Flushing Commercial
Flushing service apartments</td><td>562 persons @20 lit/day
5056 persons @10 lit/day
1000 Persons@45 lit/day</td><td>11 M^3/day
51 M^3/day
45 M^3/day</td></tr>
</table></td></tr>
<tr><td>3</td><td>The Project Proponent shall revise the estimation of population for SCO/shops by revising the total</td><td>Revised calculation of population and water balance is submitted.</td></tr>
</table>

<table>
<tr><td></td><td>covered area of the floors (except ground floor).</td><td></td></tr>
<tr><td>4</td><td colspan="2">The Project Proponent shall submit the revised details pertaining to water balance for all three seasons and green area proposed to be developed for utilization of the treated wastewater
<table>
<tr><th>Sr. No.</th><th>Total water Requirement</th><th>Total wastewater generated</th><th>Treated wastewater</th><th>Flushing water requirement</th><th>Green area of 1 acre as per karnal technology</th></tr>
<tr><td>1.</td><td>236 KLD</td><td>189 KLD</td><td>189 KLD</td><td>107 KLD</td><td>Summer:
82 KLD
Winter:
82 KLD
Monsoon:
82 KLD</td></tr>
</table></td></tr>
<tr><td>5</td><td>The Project Proponent shall allocate up to 1% of the total project cost on the following CER activities: a) Development of Mini Forests (Nanak Bagchi), raising of Avenue Plantations and Plantations in public/community areas. b) Rejuvenation of Village Ponds. c) Development of Infrastructure for utilization of treated effluent of STPs. d) Provision of solar panels in the Government / Municipal / other public schools, hospitals and Dispensaries, etc. e) Rainwater harvesting in Public Buildings. f) Alternatives to Single Use Plastic. g) Solid waste Management h) Other activities relating to amelioration of Air, Water and Soil pollution as prescribed in the applicable District Environment Plan (DEP). i) Activities as proposed by the Project Proponent / their accredited consultants for the amelioration of Air, Water, and Soil pollution on the basis of field surveys and approved by SEIAA / SEAC</td><td>
<table>
<tr><th>Sr. No.</th><th>Activities</th><th>Cost (Rs in Lacs)</th><th>Date of completion</th></tr>
<tr><td>1.</td><td>40000 No Distribution of alternatives/ Substitute to plastic (Jute Bags/ Cloth bags etc) Through PPCB</td><td>60.00</td><td>Will be started after 6 months and complete the same within 3 years</td></tr>
<tr><td>2.</td><td>Mechanical Composter Mohali MC</td><td>55.00</td><td>Within 2 Year</td></tr>
<tr><td></td><td>Total</td><td>115.00</td><td></td></tr>
</table>
</td></tr>
<tr><td>6</td><td>The Project Proponent shall earmark dedicated area on the layout plan for solid waste management</td><td>Already marked on the site plan submitted.</td></tr>
</table>

7	The Project Proponent shall clearly mark the 572 trees to be planted and the trees to be planted for Karnal Technology in the conceptual plan	1 acre of land for plantation as per karnal technology shall be developed for disposal of treated wastewater and 572 trees shall be provided within the project.

The Committee checked the status of application through Parivesh Portal for obtaining permission for access road to the project under the provisions of Forest Conservation Act 1980 and observed that the project proponent has submitted application for the same.

Further, the Committee observed that Punjab Pollution Control Board vide letter no. 82 dated 03.01.2023 has intimated that GMADA has not laid sewer in the area. Further, the project proponent has not submitted any alternate scheme for the disposal of treated effluent."

The Project Proponent apprised the Committee that the excess treated wastewater generated in all three seasons shall be 82 KLD, which will be discharged into the land area of 1 acre to be developed as per the Karnal Technology. The Committee observed that it is not advisable to allow Karnal Technology for such type of projects.

In view of above, the Committee decided that SEIAA may be requested to take up the matter with the concerned authorities such as Local Govt./GMADA/PPCB as to what action should be taken in such type of cases where the development authorities such as GMADA has not laid sewer in the area and Karnal Technology is proposed by Project Proponent as alternative mode of disposal of excess treated sewage. After detailed deliberations, SEAC decided to defer the case till SEIAA give advice to deal/appraise such type of projects.

SEAC vide letter no. SEAC/DECC/2023/406 dated 15.02.2023 requested SEIAA to take up the matter with the concerned authorities such as Local Govt./GMADA/PPCB as to what action should be taken in such type of cases where the development authorities such as GMADA has not laid sewer in the area and Karnal Technology is proposed by Project Proponent as alternative mode of disposal of excess treated sewage.

SEIAA vide letter No. 504 dated 27.03.2023 informed that the matter was considered in the 239th meeting of SEIAA held on 01.03.2023, wherein it was decided that the case be referred back to the SEAC for re-examination and giving clear recommendations for either grant or refusal of the Environmental Clearance. The relevant portion of the extract of the proceedings of 239th meeting of SEIAA is reproduced as under:

Deliberations during 239th meeting of SEIAA held on 01.03.2023

The case was considered by SEIAA in its 239th meeting held on 01.03.2023 which was attended by the following:

(i) Sh. A.S. Rathore, AGM and Sh. Deepak Gupta, Environmental Advisor of the project proponent.
(ii) Er. S.S Matharu, Sh. Sital Singh and Sh. Sandeep Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.

SEIAA noted that SEAC vide letter no. 406 dated 15.02.2023 has requested SEIAA to "*take up the matter with the concerned authorities such as Local Govt./GMADA/ PPCB as to what action should be taken in such type of cases where the development authorities such as GMADA have not laid sewer in the area and Karnal Technology is proposed by project Proponent as alternative mode of disposal of excess treated sewage".* In this regard, SEIAA observed that the action to be taken in such category of cases is to be determined by SEIAA after taking into consideration the recommendations of SEAC. The Local Government / GMADA /PPCB etc cannot be asked to advise the Authority constituted by the MOEF&CC regarding action to be taken in such matters since the decision in this regard is the mandate of the Authority.

SEIAA further observed that SEAC has recorded in the proceedings of its meeting that it is not advisable to allow Karnal Technology for such type of projects.

In this regard SEIAA examined the proceedings of the 13th joint meeting of SEIAA/SEAC held on 25.04.2022, wherein the matter of utilization of treated wastewater onto land for plantation as per Karnal Technology methodology was deliberated upon and a decision was taken by the joint committee as under:

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

SEIAA observed that SEAC has not recorded any deliberations undertaken by it in respect of the above-mentioned decision taken in the joint meeting of SEIAA/SEAC as per which Karnal Technology has been permitted as a means of disposal of treated wastewater subject to the condition that it is done within the project area. SEAC has also not made any alternate suggestion for disposal of the treated wastewater if Karnal Technology model is not considered to be suitable.

SEIAA further observed that as per the decision taken in the 13th Joint Meeting, conditional ECs have even recently been granted to several projects on the basis of recommendations made by SEAC in which sewer was not available or terminal STP was of inadequate capacity. In several such projects the quantity of wastewater was significantly higher than in the instant case whereas in some other projects alternate mode of disposal of the treated wastewater was not even provided.

SEIAA also noted that the project involves diversion of forest land and that SEAC has forwarded the proposal with the observation that the project proponent has applied for obtaining permission for access road to the project under the provisions of Forest Conservation Act, 1980 and that this fact had been verified from the Parivesh Portal. However, it was relevant to note that the requisite Stage 1 clearance under the FCA, 1980 has not been granted to the project by the MOEF&CC till date. In the absence of said Stage 1 clearance, EC cannot be granted to the project. SEIAA further observed that the matter was deliberated upon in the 14th joint meeting of SEIAA/SEAC held on 13.07.2022 wherein it was decided as under:

1) *As per prevalent practice, in case forest land is involved in the project or approach road of the project, the applicant be required to submit a copy of the application filed for diversion of Forest Land with the concerned DFO for Stage 1 clearance under the FCA,1980. Applications will thereafter be processed for Grant of TOR / EC. However, the final EC will not be issued till the Stage 1 approval for diversion of forest land has been granted by the MoEF&CC."*

SEIAA therefore, decided that the case be referred back to the SEAC. Being the statutory expert body, SEAC may be advised to give clear recommendations either for the grant or refusal of EC. The recommendations should be in conformity with the decisions taken in the joint meetings of SEIAA and SEAC and should be consistent in respect of cases of similar nature and facts.

Deliberations during 243rd meeting of SEAC held on 03.04.2023

The case was attended by the following:

(i) Sh. A.S. Rathore, AGM and Sh. Deepak Gupta, Environmental Advisor of the project proponent.
(ii) Sh. Sital Singh, Environmental Consultant M/s CPTL.

During meeting, the Committee perused the SEIAA letter No. 504 dated 27.03.2023, vide which SEIAA referred back the case to SEAC for re-examination and giving clear cut recommendation for either grant or refusal of Environmental Clearance.
The Committee observed that Punjab Pollution Control Board vide letter No. 82 dated 03.01.2023 had specifically informed that GMADA has not laid down sewer in the area and the Project Proponent has not submitted any alternate scheme for the disposal of treated effluent.

The Committee further observed that the Project Proponent has proposed to utilize its excess treated wastewater in the land area of 1 acre proposed to be developed as per Karnal Technology.

The Committee also perused the decision of the 13th Joint meeting of SEIAA & SEAC, wherein the matter of utilization of treated wastewater onto land for plantation as per Karnal Technology methodology was deliberated upon and a decision was taken by the joint committee as under:

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

The Committee observed that to check the effectiveness of "Karnal Technology", Sh. P.S Bhogal, Member, SEAC was asked to visit the site where Karnal Technology has been adopted on 1.75 acres of land within the project site. Sh. P.S Bhogal after visiting the site has reported that the Karnal Technology may be considered only in small and isolated projects as a stop gap arrangement for a limited duration in exceptional cases. The excess treated effluent from the

project round the clock cannot be safely absorbed for irrigation of plantation since irrigation requirement is never round the clock during 365 days in a year.

In the light of above observations of SEIAA and site visit report of Member SEAC, the Committee again deliberated in detail regarding adoption of Karnal Technology in big housing projects where high density of population is expected. The Committee was unanimously of the view that Karnal Technology inside the project area should not be adopted as an alternative method for disposal of treated wastewater on long term basis. However, the same may be considered for adoption as stop gap arrangement in case the GMADA informs in writing its plan to lay down sewer pipeline in the project area and about the capacity of its STP to take the effluent load from the project. GMADA should also indicate the timelines for providing sewer line and STP etc.

The Committee further observed that SEIAA has given reference to the 14th joint meeting of SEIAA/SEAC held on 13.07.2022 and stated that the project involves diversion of forest land and that SEAC has forwarded the proposal with the observation that the project proponent has applied for obtaining permission for access road to the project under the provisions of Forest Conservation Act, 1980 and that this fact had been verified from the Parivesh Portal. However, it was relevant to note that the requisite Stage 1 clearance under the FCA, 1980 has not been granted to the project by the MOEF&CC till date. In the absence of said Stage 1 clearance, EC cannot be granted to the project. The relevant decision of the 14th joint meeting of SEIAA/SEAC is as under:

> *As per prevalent practice, in case forest land is involved in the project or approach road of the project, the applicant be required to submit a copy of the application filed for diversion of Forest Land with the concerned DFO for Stage 1 clearance under the FCA,1980. Applications will thereafter be processed for Grant of TOR / EC. However, the final EC will not be issued till the Stage 1 approval for diversion of forest land has been granted by the MoEF&CC."*

SEAC observed that in accordance with the decision taken during the 14th Joint meeting of SEIAA and SEAC, the proposals for grant of TOR/EC can be processed after the proponent has applied for Stage-1 Clearance under Forest Conservation Act, 1980 in the cases where diversion of forest land is involved. In the spirit of this decision only, the cases have been appraised and recommended after satisfying that the proponent has applied for Stage-1 clearance under Forest Conservation Act, 1980. Since the decision to Grant EC is within the jurisdiction of SEIAA, Environmental Clearance may be issued by SEIAA only after the production of the approval of Stage-1 clearance under FCA 1980, by the project proponent.

In view of above, the Committee decided to defer the case till the Project Proponent submit the following:

(i) Letter from the Competent Authority of GMADA mentioning the timelines for laying of sewer lines in the project area and the capacity of its STP to take effluent load of the project.
(ii) Documents pertaining to Stage 1 Clearance obtained under the provision of Forest Conservation Act, 1980.

Deliberations during 246th meeting of SEAC held on 02.05.2023.

The meeting was attended by the following:

(i) Sh. Sandeep Kumar, Manager M/s Jubilee Joy Homes LLP.

(ii) Sh. Deepak Gupta, Environmental Advisor.

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

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

Sr. No.	Observations	Reply
1.	Letter from the Competent Authority of GMADA mentioning the timelines for laying of sewer lines in the project area and the capacity of its STP to take effluent load of the project.	Letter is not available but we propose to use the treated wastewater left after flushing i.e 82 KLD. (i) We will use the treated wastewater for Karnal Technology in an area of 1 acre. (ii) We will use the treated wastewater for construction purpose. (iii) We will use treated wastewater for sprinkling on the landran Kharar road for dust suppression.
2.	Documents pertaining to Stage 1 Clearance obtained under the provision of Forest Conservation Act, 1980.	The Project Proponent had applied for the same.

During meeting, the Committee observed that the reply given by the Project Proponent is not satisfactory. Further, the Project Proponent has not submitted the documents pertaining to the Stage 1 Clearance under the provision of Forest Conservation Act, 1980.

After detailed deliberations, SEAC decided to defer the case till the receipt of suitable reply of the observations already conveyed to the Project Proponent in the 243rd meeting held on 3.04.2023.

Deliberations during 256th meeting of SEAC held on 21.08.2023.

The meeting was attended by the following:

(i) Sh. A.S Rathore, AGM M/s Jubilee Joy Homes LLP.

(ii) Sh. Deepak Gupta, Environmental Advisor.

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

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

Sr. No	Observations	Reply
1	Letter from the Competent Authority of GMADA mentioning the timelines for laying of sewer lines in the project area and the capacity of its STP to take effluent load of the project.	Letter is not available but the Project Proponent propose to use the treated waste water left after flushing i.e 82 KLD. 1. For karnal technology in an area of 1 acre. 2 For construction purposes. 3.For sprinkling on the landran Kharar road for dust suppression
2	Documents pertaining to Stage 1 Clearance obtained under the provision of Forest Conservation Act, 1980.	We have applied for the same.

During meeting, the Committee perused the reply of the observation raised at point No. 1 and observed that Project Proponent has proposed to utilize the excess treated wastewater of 82 KLD in the green area of 1 acre falling adjoining to the project, which shall be developed as per Karnal Technology. In this regard, the Committee asked the Project Proponent to utilize the maximum quantity of the excess treated wastewater under Karnal Technology in the adjoining land before utilizing the same in green area of 2818 sqm proposed to be developed within the project premises. The Project Proponent agreed to the same and submitted the revised proposal for utilization of the treated wastewater of the project as under:

Sr. No.	Season	Total treated wastewater in KLD	Treated wastewater for flushing in KLD	Treated wastewater for green area within the project premises in KLD	Excess treated wastewater utilized in land area under Karnal Technology in KLD
1.	Summer	189	107	14	68
2.	Winter	189	107	5	77
3.	Rainy	189	107	1	81

The Project Proponent submitted land ownership document of the land area of 1 acre proposed to be developed under Karnal Technology adjoining to the project site. The Project Proponent also submitted an affidavit to the effect that the land area of 1 acre shall not be utilized for any other purpose except Karnal Technology till outlet of the project is connected with main sewer line of the city. The Committee was satisfied with the proposal and took the above documents on record.

The Committee further asked the Project Proponent to submit the details of plantation such as area of plantation, height of the trees to be planted, tree species etc., by earmarking the same on the layout plan. The Project Proponent submitted the same.

Regarding obtaining Stage-1 Forest Clearnce, the Project Proponent apprised the Committee that such clearance is not required at this stage in view of The Forest (Conservation) Amendment Act, 2023. The Committee noted the same.

The Committee was satisfied with the reply given by the Project Proponent and after detailed deliberations, the Committee decided to award **'Silver Grading'** to the project proposal and decided to forward the application of the project proponent to SEIAA with the recommendation to grant Environmental Clearance for the establishment of commercial Project namely "Jubilee Westgrove" at Village Bairampur, SAS Nagar, Punjab by M/s Jubilee Joy Homes LLP, subject to the following standard conditions:

I. Statutory compliances:

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

ii) The approval of the Competent Authority shall be obtained for the structural safety of buildings due to earthquakes, adequacy of firefighting equipment, etc. as per the National Building Code including protection measures from lightning, etc.

iii) The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes is involved in the project.

iv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

v) The project proponent shall obtain Consent to Establish / Operate under the provisions of the Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Punjab Pollution Control Board.

vi) The project proponent shall obtain the necessary permission for the abstraction of groundwater/ surface water required for the project from the competent authority.

vii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.

viii) All other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire Department, and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

ix) The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules,2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

x) The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

xi) The project site shall conform to the suitability as prescribed under the provisions laid down under the master plan of the respective city/ town. For that, the project proponent shall submit the NOC/ land use conformity certificate from Deptt. of Town and Country Planning or other concerned Authority under whose jurisdiction, the site falls.

xii) Besides the above, the project proponent shall also comply with siting criteria/guidelines, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such types of projects.

xiii) The project proponent shall construct the buildings as per the layout plan approved from the Competent Authority and in consonance of the project proposal for which this environment clearance is being granted.

II. Air quality monitoring and preservation

i) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

ii) A management plan shall be drawn up and implemented to contain the current exceedance in the ambient air quality at the site.

iii) The project proponent shall install a system to undertake Ambient Air Quality monitoring for common /criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5) covering upwind and downwind directions during the construction period.

iv) Diesel power generating sets proposed as a source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel would be the preferred option. The location of the DG sets may be decided in consultation with Punjab Pollution Control Board.

v) Construction site shall be adequately barricaded before the construction begins. Dust, smoke and other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, and continuous dust/ wind-breaking walls all around the site (at least 3 m height or 1/3rd of the building height and maximum up to 10 m). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

vi) No Excavation of soil shall be carried out without adequate dust mitigation measures in place.

vii) No loose soil or sand or construction and demolition waste or any other construction material that causes dust shall be left uncovered.

viii) No uncovered vehicles carrying construction material and waste shall be permitted.

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

x) Grinding and cutting of building material in open areas shall be prohibited. A wet jet shall be provided for grinding and stone cutting.

xi) Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.

xii) All construction and demolition debris shall be stored at the site within the earmarked area and roadside storage of construction material and waste shall be prohibited. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.

xiii) The diesel generator sets to be used during the construction phase shall be low sulphur diesel type and shall conform to the norms and regulations prescribed under air and noise emission standards.

xiv) The gaseous emissions from the DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

xv) For indoor air quality, the ventilation provisions as per the National Building Code of India shall be complied with.

xvi) Roads leading to or at the construction site must be paved and blacktopped (i.e., metallic roads should be built and used).

xvii) Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.

xviii) Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measures will be notified at the site

III. Water quality monitoring and preservation

i) The natural drainage system should be maintained for ensuring unrestricted flow of water.

ii) No construction shall be allowed which obstructs the natural drainage through the site, in wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.

iii) Buildings shall be designed to follow the natural topography as far as possible. Minimum cutting and filling should be done.

iv) The total freshwater use shall not exceed the proposed requirement as mentioned in the application proposal.

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

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

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

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

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

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

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

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

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

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

Sr. No	Nature of the Stream	Color code
a)	Fresh water	Blue
b)	Untreated wastewater from Toilets/ urinal and from Kitchen	Black
c)	Untreated wastewater from Bathing/shower area, hand washing (Washbasin / sinks) and from Cloth Washing	Grey
d)	Reject water streams from RO plants and AC condensate (this is to be implemented wherever centralized AC system and common RO has been proposed in the Project). Further, in case of individual houses/establishment this proposal may also be implemented wherever possible.	White
e)	Treated wastewater (for reuse only for plantation purposes) from the STP treating black water	Green
f)	Treated wastewater (for reuse for flushing purposes or any other activity except plantation) from the STP treating greywater	Green with strips
g)	Stormwater	Orange

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

xvi) The CGWA provisions on rainwater harvesting should be followed. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of the plot area and a storage capacity of a minimum of one day of the total freshwater requirement shall be provided. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. The groundwater shall not be withdrawn without approval from the Competent Authority.

xvii) All recharge should be limited to shallow aquifers.

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

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

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

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

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

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

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

IV. Noise monitoring and prevention

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

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

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

V. Energy Conservation measures

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

ii) Outdoor and common area lighting shall be LED.

iii) Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased daylighting design and thermal mass, etc. shall be incorporated in the building design. Wall, window, and roof U-values shall be as per ECBC specifications.

iv) Energy conservation measures like the installation of LEDs for lighting the area outside the building should be an integral part of the project design and should be in place before project commissioning.

v) Solar, wind, or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.

vi) At least 30% of the rooftop area shall be used for generating Solar power for lighting in the apartments so as to reduce the power load on the grid. A separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher.

VI. Waste Management

i) A certificate from the competent authority handling municipal solid waste, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from the project shall be obtained.

ii) The Project Proponent shall install Mechanical Composter of adequate capacity to treat wet component of the Solid Waste.

iii) Disposal of muck during the construction phase should not create any adverse effect on the neighbouring communities and should be safely disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of the competent authority.

iv) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating the segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.

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

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

vii) Any hazardous waste generated during the construction phase, shall be disposed of as per applicable rules and norms with the necessary approvals of the State Pollution Control Board.

viii) Use of environment-friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include

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

ix) Fly ash should be used as a building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready-mixed concrete must be used in building construction.

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

xi) Used CFLs and TFLs should be properly collected and disposed of or sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

i) No naturally growing tree should be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department.

ii) At least a single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. The project proponent shall ensure the planting of trees in the project area at the identified location, as the per proposal submitted, with plants of native species preferably having broad leaves. The size of the plant thus planted should not be less than 6 ft and each plant shall be protected with a fence and properly maintained. The project proponent shall make adequate provisions of funds to ensure maintenance of the plants for a further period of three years and thereafter, protected throughout the entire lifetime of the Project. The species with heavy foliage, broad leaves, and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. The plantation should be undertaken as per SEIAA guidelines.

iii) The Project Proponent shall develop a green belt with native tree species (having canopy type structure and especially trees, and not grass) before the completion of the project. The greenbelt shall inter alia cover the entire periphery of the unit provided that the number of trees to be planted should not be less than one tree per 80 sqm of the total land area. The canopy trees shall also be planted around the parking area to provide shade to the parked vehicles.

iv) Where the trees need to be cut with prior permission from the concerned local Authority, a compensatory plantation in the ratio of 1: 10 (i.e. planting of 10 saplings of the same species for every tree that is cut) shall be done and the newly planted saplings will be maintained for at least 5 years. Green belt development shall be undertaken as per the details provided in the project document.

v) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during the plantation of the proposed vegetation on site.

vi) The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.

vii) The green belt along the periphery of the plot shall achieve an attenuation factor conforming to the day and night noise standards prescribed for commercial land use.

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

VIII. Transport

i) A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.

a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.

b) Traffic calming measures.

c) Proper design of entry and exit points.

d) Parking norms as per local regulations.

ii) Vehicles hired for bringing construction material to the site should be in good condition and should have a valid pollution check certificate, conform to applicable air and noise emission standards, and should be operated only during non-peak hours.

iii) A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 km radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on the cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies within this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

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

IX. Human health issues

i) All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris, or working in any area with dust pollution shall be provided with dust masks.

ii) For indoor air quality, the ventilation provisions as per the National Building Code of India should be followed.

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

iv) Occupational health surveillance of the workers shall be done regularly.

v) A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Environment Management Plan

i) The company shall have a well-laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violations of the environmental / forest/wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stakeholders. A copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of the six-monthly report.

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

iii) An action plan for implementing following activities under EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority.

COMPONENT	CAPITAL COST (INR LAKH)	RECURRING COST (INR LAKH/YR)
Sewage Treatment Plant	60.0	6.0
Rain Water Harvesting System	6.0	1.0
Solid Waste Management	15.0	8.0
Environmental Monitoring	---	12.80
Green Area/ Landscape Area	15.0	8.0

Total	**96.0**	**35.80**

CER Activities:

Sr. No.	Activities	Cost (Rs in Lacs)	Date of completion
1.	40000 No Distribution of alternatives/ Substitute to plastic (Jute Bags/ Cloth bags etc) Through PPCB	60.00	Will be started after 6 months and complete the same within 3 years
2.	Mechanical Composter Mohali MC	55.00	Within 2 Year
	Total	**115.00**	

XI. Validity

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

XII. Miscellaneous

i) The project proponent shall obtain a completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab before allowing any occupancy.

ii) The project proponent shall comply with the conditions of CLU, if obtained.

iii) The project proponent shall prominently advertise in at least two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.

iv) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn have to publicly display the same for 30 days from the date of receipt.

v) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on a half-yearly basis.

vi) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at the Environment Clearance portal and submit a copy of the same to SEIAA.

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

viii) The project proponent shall inform the Regional Office as well as SEIAA Punjab, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.

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

x) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during public hearing and also those made to SEIAA / SEAC during their presentation.

xi) No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

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

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

XIII. Additional Conditions

i) The approval is based on the conceptual plan/drawings submitted with the application. In case, there is variation in built-up area/green area/ any other details in the drawings approved by the competent authority, the Project Proponent shall obtain the revised Environmental Clearance.

ii) The Project Proponent shall ensure that the natural drainage channels in the project site including streams, drains, choes, creeks, rivulets, etc. are not disturbed so that the natural flow of rainwater, etc is not impeded or disrupted in any manner.

iii) Authorization from Punjab Pollution Control Board shall be obtained as applicable under the Bio-Medical Waste Management Rules 2016 as amended from time to time.

iv) The solid waste other than Bio-Medical Waste & Hazardous Waste (dry as well as wet garbage) generated should be properly collected and segregated before disposal to Municipal Authorities in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2000. No municipal waste should be disposed off outside the premises in contravention of relevant rules and by-laws. Adequate measures should be taken to prevent any malodour in and around the Project premises.

v) In the event that the project proponent decides to abandon/close the Project at any stage, he shall submit an application in the prescribed form along with requisite documents through Parivesh to SEIAA for surrendering the Environmental Clearance as per the procedure prescribed in OM dated 29.03.2022 issued by the MoEF&CC. The project proponent shall be accountable for adherence/compliance of the EC conditions till such time as the project is finally closed by SEIAA, based upon the certified closure report of Integrated Regional Offices (IROs) of MoEF&CC, Chandigarh/PPCB.

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

vii) Concealing factual data or submission of false/fabricated data may result in revocation of this Environmental Clearance and attract action under the provisions of Environment (Protection) Act, 1986.

viii) The Project Proponent shall manage the solid waste generated from the project as per the sub-rule-7 of rule-4 of SWM Rules 2016.

ix) The Ministry reserves the right to stipulate additional conditions if found necessary. The Promoter Company in a time bound manner shall implement these conditions.

x) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.

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

Item No. 256.03: Application for Environmental Clearance under EIA Notification dated 14.09.2006 for establishment of group housing project namely "Atlantis Heights" located at Village Nabha, Zirakpur, District SAS Nagar, Punjab by M/s Atlantis (Proposal No. SIA/PB/INFRA2/433772/2023).

The Project Proponent has submitted application for Environmental Clearance under EIA Notification dated 14.09.2006 for establishment of group housing project namely "Atlantis Heights" located at Village Nabha, Zirakpur, District SAS Nagar, Punjab. The total area of the project is 8238.84 sqm having built up area of 27186.61 sqm. The project is covered under category 8(a) of the schedule appended with the EIA Notification dated 14.09.2006. The total cost of the project is Rs. 30 Cr.

The Project Proponent has submitted online form, checklist & other relevant documents through Parivesh Portal. He has deposited fee of Rs. 54,374/- vide UTR No. N170232508756295 dated 19.06.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

The latest construction status report furnished by Punjab Pollution Control Board vide letter No. 5314 dated 24.07.2023 is as under:

"It is further intimated that the proposed site of the project was visited by officer of the Board on 4/7/2023 and the pointwise status report is as under:

1. *The proposed site of the project is located at Village Nabha, Zirakpur, Dist. SAS Nagar. The project proponent has earmarked its site with flag poles and no boundary wall / fencing is provided.*
2. *The project proponent has not started development works at site.*
3. *As per the boundary limits shown by the representative, it was observed that there is no operational approved/consented industry such as rice sheller/ saila plant/ brick kiln/ stone crushing/ screening cum washing unit/ hot mix plant/ cement grinding unit within a radius of 500 m. There is no operational approved/consented air polluting industry within a radius of 100 m from the boundary of the project site and there is no operational approved/consented MAH industry within a radius of 250 m radius from the boundary of the proposed site. There is no operational approved/consented Jaggery Unit within 200 m.*
4. *The site of the project is conforming to the sitting guidelines laid down by the Govt. of Punjab, Department of Science Technology and Environment vide order dated 25/07/2008 as amended on 30/10/2009.*

It is relevant to mention here that the Board vide letter no. SEE(HQ-2)/2022/F.No.82 dated 11/3/2022 has intimated that it has been observed that while filing application for Environment Clearance under EIA notification, 2006, the project proponents proposed to discharge their effluents into public sewer. At times, the capacity of the STP is not adequate to handle the additional effluents load of such project. For instance, cities like Zirakpur and Kharar have treatment capacity much below the present effluent generation. Despite this, the MCs of these cities are giving NOCs for allowing the outlet of new projects to their sewer. In absence of environmentally sound disposal arrangements, untreated or partial treated effluent is being bypassed from these STPs causing serious environmental damages. In absence of sustainable disposal arrangements,

the project proponents, resort to unhealthy practices, like disposal of effluents into the bore wells or for stagnation or to unknown places / drains / roadside / ponds through mobile tankers etc. Further requested State Level Environment Impact Assessment Authority that the Environment Clearance may not be granted for disposal of effluent into public sewer in case the city STPs have not adequate capacity to handle the additional wastewater from such new / expansion projects. There project proponents shall be advised to provide concrete proof for alternate modes of disposal like availability of adequate land for utilizing treated effluents for plantation or to adopt other environmentally sound effluent disposal arrangements.

Further, it is appropriate to mention here that the authority of the MC, Zirakpur was given personal hearing before the worthy Chairman of the BOard on 11/4/2022, as per decision no. (iii) i.e. M.C. Zirakpur be directed not to approve new project plans till necessary infrastructure like sewer/ STPs/ disposal mechanism is not put in place with copy to PSLG. The project proponent has not submitted permission regarding additional land for the disposal of treated effluent till the sewer line is not available at project site. Moreover, present STP of MC, Zirakpur is under capacity and is not adequate to handle the additional effluent load of such projects."

Deliberations during 256th meeting of SEAC held on 21.08.2023.

The meeting was attended by the following:

(i) Sh. Vishwas Chadha, Partner M/s Atlantis.

(ii) Sh. Deepak Gupta, Environmental Advisor.

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

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

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	Atlantis Heights" by M/s Atlantis
1.2	Proposal:	SIA/PB/INFRA2/433772/2023
1.3	Location of Project:	Village Nabha, Zirakpur, Tehsil Derabassi , Distt. Mohali, Punjab
1.4	Details of Land area & Built up area:	Plot area: 8238.84sq.m. Built up area: 27186.61 sq.m.
1.5	Category under EIA notification dated 14.09.2006	The project falls under S.No. 8(a) - 'Building & Construction Project' as built-up area of the project will be 27186.61 sq.m.
1.6	Cost of the project	Rs. 30 Crores
2.	**Site Suitability Characteristics**	

2.1	Whether project is suitable as per the provisions of Master Plan:	Master Plan of Derabassi showing location of the project submitted.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	The permission for Change of Land use for the land area measuring 8238.84 sqm not submitted, however, the Project Proponent submitted the land ownership document in form of letter of consent in the name of Atlantis for the land area measuring 9850 sqyards (8234 sqm) and in form of sale deed of total land area measuring 3 bigha 6 biswa (3785.46 sqm).
3	**Forest, Wildlife and Green Area**	
3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	No, undertaking in the prescribed format submitted.
3.2	Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA), 1900.	No, undertaking in the prescribed format submitted.
3.3	Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not?	No, undertaking in the prescribed format not submitted.
3.4	Whether the project falls within the influence of Eco-Sensitive Zone or not.	No. The project does not fall within any eco-sensitive zone.
3.5	Green area requirement and proposed No. of trees:	Total green area: 2525 sq.m. Proposed trees to be planted: 125 nos.
4.	**Configuration & Population**	

<table>
<tr><td>4.1</td><td>Proposal &Configuration</td><td><u>Area Statement</u>
<table>
<tr><th>Sl. No.</th><th>Description</th><th>Area (in sq.m.)</th></tr>
<tr><td>1.</td><td>Total Plot Area</td><td>8238.84 sq.m</td></tr>
<tr><td>2</td><td>Built up area</td><td>27186.61 sq.m.</td></tr>
</table></td></tr>
<tr><td>4.2</td><td>Population details</td><td>970 persons
<table>
<tr><td>Flats 194 Flats</td><td>194 flats@ 5 residents each per flat</td><td>970 Persons</td></tr>
<tr><td colspan="3">Total Estimated Population = 970 Persons</td></tr>
</table></td></tr>
<tr><td>5</td><td>Water</td><td></td></tr>
<tr><td>5.1</td><td>Total fresh water requirement:</td><td>87 KLD
Table 5: Water demand & wastewater generation calculations
<table>
<tr><th>Sl. No.</th><th>Details</th><th>Population</th><th>Criteria</th></tr>
<tr><td>1.</td><td>Flats Population</td><td>970 @ 135 lit./day</td><td>131 M3/day</td></tr>
<tr><td>2.</td><td>Domestic water required</td><td></td><td>131 M3/day</td></tr>
<tr><td>3.</td><td>Total Flow to STP@ 80%</td><td>(Domestic water)</td><td>105 M3/day</td></tr>
<tr><td>4.</td><td>Reuse of treated waste water</td><td>Flushing @ 45 ltr/person
Green area 2525@5.5 ltr/sqm</td><td>44 M3/day
14 M3/day
58 M3/day</td></tr>
</table></td></tr>
<tr><td>5.2</td><td>Source:</td><td>Bore wells</td></tr>
<tr><td>5.3</td><td>Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) Details thereof</td><td>No, permission from PWRDA is not required as water demand will be met exclusively for Drinking and Domestic purpose.</td></tr>
<tr><td>5.4</td><td>Total wastewater generation:</td><td>105 KLD</td></tr>
<tr><td>5.5</td><td>Treatment methodology:</td><td>105 KLD of wastewater will be generated from the project which will be treated in proposed STP of 160 KLD capacity based on SBR Technology followed by UF.</td></tr>
</table>

<table>
<tr><td></td><td>(STP capacity, technology & components)</td><td></td></tr>
<tr><td>5.6</td><td>Treated wastewater for flushing purpose:</td><td>44 KLD</td></tr>
<tr><td>5.7</td><td>Treated wastewater for green area in summer, winter and rainy season:</td><td>Summer: 14 KLD
Winter: 4 KLD
Monsoon:1 KLD</td></tr>
<tr><td>5.8</td><td>Utilization/Disposal of excess treated wastewater.</td><td>47 KLD excess treated water will be disposed in to MC sewer.</td></tr>
<tr><td>5.9</td><td colspan="2">Cumulative Details:
<table>
<tr><th>S. No.</th><th>Total water Requirement</th><th>Total wastewater generated</th><th>Treated wastewater</th><th>Flushing water requirement</th><th>Green area requirement</th><th>Into sewer</th></tr>
<tr><td>1.</td><td>131 KLD</td><td>105 KLD</td><td>104 KLD</td><td>44 KLD</td><td></td><td>Summer: 47 KLD
Winter:57 KLD
Monsoon:60 KLD</td></tr>
</table></td></tr>
<tr><td>5.10</td><td>Rain water harvesting proposal:</td><td>3 Rain Water Recharging pits with dual bore have been proposed for artificial rain water recharging within the project premises.</td></tr>
<tr><td>6</td><td colspan="2">Air</td></tr>
<tr><td>6.1</td><td>Details of Air Polluting machinery:</td><td>2x240, 2x 125 KVA capacity will be installed for essential services such as STP, borewell, etc.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>DG set will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.</td></tr>
<tr><td>7</td><td>Waste Management</td><td></td></tr>
</table>

7.1	Total quantity of solid waste generation	388 kg/day
7.2	Whether Solid Waste Management layout plan by earmarking the location as well as area designated for installation of Mechanical Composter and Material Recovery Facility submitted or not.	Solid waste management area has been provided and earmarked in conceptual layout plan attached along with application. Biodegradable waste will be composted by use of 1 Composter of 225 kg each. Recyclable component will be disposed of through authorized recycler vendors. Inert waste will be dumped to authorized dumping site.
7.3	Details of management of Hazardous Waste.	Hazardous Waste in the form of used oil from DG set will be generated whichwill be managed & disposed off to authorized vendors as per the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and its amendments.
8	**Energy Saving & EMP**	
8.1	Power Consumption:	Total power demand for the proposed project will be 1000 KW which will be provided by Punjab State Power Corporation Limited (PSPCL).
8.2	Energy saving measures:	Use of LEDs is proposed in all common areas and solar street lights
8.3	Details of activities under Environment Management Plan.	

S. No.	**Title**	**Construction Phase**		**Operation Phase**
		Capital Cost (in Lakhs)	**Recurring Cost (in Lakhs per Annum)**	**Recurring Cost (in Lakhs per Annum)**
1.	Medical Cum First Aid	0.50	1.0	
2.	Toilets for sanitation system	2.0	1.0	
3.	Wind breaking curtains	7.0	2.0	
4.	Sprinklers for suppression of dust	2.0	3.0	
5.	Sewage Treatment Plant	40.0		4.5
6.	Solid Waste segregation & disposal	10.0		3.0
7.	RWHP	20.0		8.0

	8.	Green area development	4.0		1.5
	9	Smoke gun	6.0	2.0	
	Total		**91.50**	**9.0**	**17.0**
	Monitoring Plan			5.90	6.90
	Further, Rs. 30.0 Lakhs i.e. 1% of total project cost has been reserved for undertaking additional Environment activities.				

The Committee perused letter No. 5314 dated 24.07.2023 of PPCB and noted the observation of PPCB that the treatment capacity of Zirakpur & Kharar STPs is much below the present effluent generation. Despite this, the MCs of these cities are giving NOCs for allowing the outlet of new projects to their sewer. In the absence of environmentally sound disposal arrangements, untreated or partial treated effluent is being bypassed from these STPs causing serious environmental damages. In the absence of sustainable disposal arrangements, the project proponents, resort to unhealthy practices, like disposal into bore wells or for stagnation or to unknown places / drains / roadside / ponds through mobile tankers etc. The PPCB has accordingly requested State Level Environment Impact Assessment Authority (SEIAA) that EC may not be granted for disposal of effluent into public sewer in case the city STPs does not have adequate capacity to handle the additional wastewater from such new / expansion projects. PPCB have further stated that the project proponents shall be advised to provide concrete proof for alternate modes of disposal like availability of adequate land for utilizing treated effluents for plantation or to adopt other environmentally sound effluent disposal arrangements.

The Committee also perused the letter No. 2000 dated 13.06.2023 issued by E.O, Nagar Council, Zirakpur in respect of project under consideration and noted that the treatment capacity of STP Zirakpur is much below the present effluent generation as pointed out by the PPCB in their letter dated 24.07.2023. It has further been mentioned by E.O that one more STP of 17 MLD is being installed by Sewerage Board for Kishanpura Area for which tender has been allotted to M/s Anand Projects Company and the work is likely to be completed shortly. The E.O has further stated that a resolution for installing 17 MLD STP for Nabha village has been passed by Nagar Council, Zirakpur. It was further mentioned by E.O that the above proposals shall be got completed within 2 years. The E.O has further mentioned that 65 KLD of treated sewage of the project can be connected to the main sewer after depositing of the necessary charges.

The Committee was apprised that Punjab Water Supply & Sewerage Board vide letter No. PWSSB/D:II/2022/21061 dated 16.12.2022 informed SEIAA that presently 20.16 MLD of sewage is being received at the existing STP of 17.3 MLD capacity. Further to address the gap in sewage, the work for installing another STP of 17 MLD capacity has already been allotted but the work has been held due to land court case.

In view of the comments of PPCB, the Project Proponent was advised to provide the alternative scheme for the utilization of treated effluent as a stop gap arrangement till the time the new STP for which the work has already been allotted gets completed and thereafter the Project Proponent is allowed to connect the project sewer with MC sewer. The Committee after detailed deliberations, decided to defer the case till the receipt of reply from the Project Proponent.

Item No. 256.04: Application for obtaining Environmental Clearance of an Industrial Park namely "Dolphin Industrial Park (Agro-Based) at Village Jiwanpura, Tehsil & District Fatehgarh Sahib, Punjab by M/s Dolphin Mercantile Pvt Ltd. (SIA/PB/INFRA2/403868/2022).

The project proponent has applied for obtaining Environmental Clearance of an Industrial Park namely "Dolphin Industrial Park (Agro-Based) at Village Jiwanpura, Tehsil & District Fatehgarh Sahib, Punjab. The total land area of the project is 94,494.7 sqm having built-up area of 71,368.35 sq.m. The Project is covered under category 8(a) of the schedule appended with the EIA Notification, 2006.

The project proponent has submitted the online form, approved layout plan, and other relevant documents through Parivesh Portal. The Project Proponent has deposited Rs. 1,22,782/- vide UTR no. KKBK222433524828 dated 31.08.2022 and Rs. 19,955/- vide UTR No. KKBK230349897533 dated 03.02.2023, as checked & verified by the supporting staff of SEIAA.

The construction status of the project furnished by Punjab Pollution Control Board vide letter no. 1195 dated 20.04.2023 given as under:

"The proposed site of the project was visited by the officer of the Board on 03/04/2023 in the presence of Sh. Jivender Katoch, Legal Head of the promoter company and the comments w.r.t. suitability of site physical structure and construction status etc. are as under:

Sr. No.	***Information Sought***	***Comments of the Board***
1.	*Construction status of the proposed peoject Please and the clear-cut report as to whether construction for the project has been started for the project except for securing the land.*	*1. The project proponent has earmarked its site with concrete poles and no boundary wall/ fencing is provided.* *2. The project proponent has not started any construction activity at site for the proposed project.*
2.	*Status of physical structures within a 500 m radius of the site including the status of industries drain, river, and eco-sensitive structures if any.*	*1. As per the boundary limits shown by the representative, it was observed that there is no rice sheller/ saila plant/ brick kiln/ stone crusher/ screening unit / hot mix plant/cement MAH industry within a radius of 250 mt from of the proposed.* *2. Site there is no eco-sensitive structure within 500 mt. of the proposed site.* *3. There is one seasonal choe/ drain within 100 meters from the proposed site of the project that ultimately leads to Patiala choe, locates at about 800 mt. from the proposed site of the project.*

		4. There is one no. Govt. School within 100 mt. from the proposed site of the project which is not in working condition. *5. There is only exist one Satsang Ghar and 02 No. residential houses within 500m from the proposed site of the project.*
3.	*Whether the site is meeting the prescribed criteria for setting up of such types of projects. Please send a clear-cut recommendation*	*The proposed site of the project is meeting with the sitting guidelines laid down by the Govt. of Punjab, Department of Science Technology and Environment vide order dated 25.07.2008 as amended on 30.10.2009 for commercial projects.* *Further, the project proponent has already obtained CLU from Department of Town & Country Planning, Punjab vide memo No. 520-STP(S)/SS-(FI) dated 17.05.2022 with certain conditions mentioned therein.*

Further, there is a one seasonal choe/drain within 100m from the proposed site, which leads to Patiala choe at about 800m from the site. Therefore, a condition in the EC be imposed that the project proponent will not discharge its treated/untreated effluent into choe/drain under any circumstances."

Deliberations during 246th meeting of SEAC held on 02.05.2023.
The meeting was attended by the following:

(i) Sh. Jivendera, Legal Head M/s Dolphin Mercantile Pvt Ltd
(ii) Mr. Sandeep Garg, Environmental Consultant M/s Eco Laboratories Pvt Ltd.
(iii) Mrs. Jyoti Rani, EC-Coordinator M/s Eco Laboratories Pvt Ltd.

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

Sr. No.	**Description**	**Details**
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	Industrial Park namely "Dolphin Industrial Park" by M/s Dolphin Mercantile Pvt. Ltd.
2.	**Site Suitability Characteristics**	
2.1	Whether project is suitable as per the provisions of Master Plan:	The project falls in the agriculture zone as per the Master Plan of Fatehgarh Sahib.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	A copy of the permission letter for change in land use (CLU) of total land area measuring 23.35 acres vide memo No. 520-STP(S)/SS-11(FI) dated 17.05.2022 issued by

<table>
<tr><td></td><td></td><td>Department of Town & Country Planning, Punjab submitted.</td></tr>
<tr><td>3</td><td colspan="2">Forest, Wildlife and Green Area</td></tr>
<tr><td>3.1</td><td>Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:</td><td>Yes. Application has been filed for obtaining diversion in forest land of 0.06624 ha for approach access. Acknowledgement is enclosed along with the application.</td></tr>
<tr><td>3.2</td><td>Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA), 1900.</td><td>No PLPA land is involved in the project.</td></tr>
<tr><td>3.3</td><td>Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:</td><td>No wildlife sanctuary falls within 10 km radius of the project.</td></tr>
<tr><td>3.4</td><td>Distance of the project from the Critically Polluted Area.</td><td>The nearest critically polluted area is Ludhiana which is approx. 65 km from our project location.</td></tr>
<tr><td>3.5</td><td>Whether the project falls within the influence of Eco-Sensitive Zone or not.</td><td>Yes. Project falls outside eco-sensitive zone. Thus, NBWL Clearance is not required.</td></tr>
<tr><td>3.6</td><td>Green area requirement and proposed No. of trees:</td><td>Area under green: 6,624.704 sq.m.
Proposed trees to be planted: 1200 nos.</td></tr>
<tr><td>4.</td><td colspan="2">Configuration & Population</td></tr>
<tr><td>4.1</td><td colspan="2">Area details:

<table>
<tr><th>Description</th><th>Area in sq.ft.</th></tr>
<tr><td>Total Scheme Area</td><td>10,17,132.66 (23.35 acres)</td></tr>
<tr><td>Area under Industrial Plots (@56.501%)</td><td>5,74,669.499 (13.193 acres)</td></tr>
<tr><td>Area under Commercial Plots (@3.623%)</td><td>36,847.5 (0.846 acres)</td></tr>
<tr><td>Area under Commercial (SCOs & Bay Shop) (@3.29%)</td><td>33,509 (0.769 acres)</td></tr>
<tr><td>Area under Utilities (@5.679%)
• STP
• SWM
• E.G.S.
• Water Works</td><td>57,777.75 (1.326 acres)
• 8,829.18
• 33,424.92
• 7,054.92
• 8,468.73</td></tr>
<tr><td>Area under Park (@7.01%)</td><td>71,307.72 (1.637 acres)</td></tr>
<tr><td>Area under Roads, Open Spaces, Parking & Green (@23.89%)</td><td>2,43,021.2 (5.579 acres)</td></tr>
</table>

Built up are details as under:</td></tr>
</table>

S. No.	Components	Proposed Built-up area (Sq.m)
1.	Industrial plots	56,057.50
2.	Commercial plots	8,215.72
3.	SCOs	5,019.32
4.	Bay Shops	2,075.81
	Total Built-up Area	**71,368.35**

Plot wise details:

Sl. No.	Description	Plot Number	No. of Plots	Area of plot (sq.ft.)
1.	**Industrial Plots**	1	1	23085.56
		2	1	40078.125
		3	1	40908.424
		4	1	39575.937
		5	1	38747.311
		6	1	41156.195
		7-11	5	1,20,000
		12-15	4	29,700
		16	1	64356.362
		17	1	99461.585
		18-19	2	37,600
Total Industrial Plots			**19**	**5,74,669.499**
2.	**Commercial Plots**	1	1	12622.500
		2-3	2	24,225
Total Commercial Plots			**3**	**36,847.5**
3.	**SCOs**	1-21	21	**22,869**
4.	**Bay Shops**	1-19	19	**10,640**

The above said details are as per the approved layout plan vide letter no. 1200 STP(S)55-11(FI) dated 07.11.2022 issued by Senior Town Planner.

4.2 Population details

Sr. No.	Components	Area	Criteria	Population
1.	Industrial plots	53,388.10 sq.m.	1 person per 10 sq.m.	5,339
2.	Commercial plots	Ground Floor Area = 1369.29 sq.m. Upper floors Area = 5477.15 sq.m.	Ground floor: 1 person per 3 sq.m.	456 913

				Upper floors: 1 person per 6 sq.m.	
	3.	SCOs	Ground Floor Area = 1593.44 sq.m. Upper floors Area = 3,186.869 sq.m.	Ground floor: 1 person per 3 sq.m. Upper floors: 1 person per 6 sq.m.	531 531
	4.	Bays	Ground Floor Area = 790.78 sq.m. Upper floors Area = 1,186.18	Ground floor: 1 person per 3 sq.m. Upper floors: 1 person per 6 sq.m.	264 198
		Total Commercial plots, SCOs & Bays Population • Staff • Visitors			2,893 289 2,604
	5.	Utilities & Other Services	-	-	50 persons
	Total Estimated Population				**8,282 persons**

5 Water

5.1 Water Details:

S. No.	Details	Population / Area	Water Demand (in KLD)
1.	Industrial @ 45 lpcd	5,339	240 KLD
2.	Commercial plots, SCOs & Bays (@ 45 lpcd for staff & @ 15 lpcd for visitors)	Staff= 289 Visitors= 2,604	52 KLD (13+39 KLD)
3.	Utilities and Other Services @ 45 lpcd	50	2 KLD
Total water req.			**294 KLD**
Flushing water req. (@ 15 lpcd for industrial plots, @ 20 lpcd for Commercial plots, SCOs, Bays, staff & utilities and @ 10 lpcd for visitors)			**113 KLD**

	Net fresh water requirement	**181 KLD**
	Wastewater Generated (@80%)	235 KLD
	Proposed STP Capacity	270 KLD
	Green Area reserved under Karnal Technology	1.637 acres
5.2	Source:	2 Borewells
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) *Details thereof*	A copy of the permission letter for abstraction of ground water @ 147 KLD issued by PWRDA submitted.
5.4	Total wastewater generation:	235 KLD
5.5	Treatment methodology: *(STP capacity, technology & components)*	235 KLD of sewage will be generated from the project which will be treated in proposed STP of 270 KLD capacity based on MBBR Technology followed by UF.
5.6	Treated wastewater for flushing purpose:	230 KLD
5.7	Treated wastewater for green area in summer, winter and rainy season:	The Project Proponent has proposed 6,624.704 sq.m. shall be developed as per Karnal Technology.
5.8	Utilization/Disposal of excess treated wastewater.	Excess to 1.637 acres reserved for Karnal Technology within the project.

5.9 Cumulative Details:

Sr. No.	**Total water Requirement**	**Total wastewater generated**	**Treated wastewater**	**Flushing water requirement**	**Green area requirement**	**Into sewer***
1.	294 KLD	235 KLD	230 KLD	113 KLD	-	Excess will be disposed off to an area of 1.637 acres reserved for Karnal technolog

	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>y within the project premises.</td></tr></table> * Excess will be disposed of to an area of 1.637 acres reserved for Karnal technology within the project premises.	
5.10	Rain water harvesting proposal:	Individual plot owners of 19 Industrial Plots and 3 Commercial Plots having plot size more than 500 m^2 will themselves be responsible for the provision of rain water harvesting system to recharge ground water within their plot itself. While, for remaining areas including roof top of SCOs & Bay shops, 2 rain water recharging pits with dual bore will be constructed by the proponent.
6	**Air**	
6.1	Details of Air Polluting machinery:	1 DG set of capacity 100 KVA
6.2	Measures to be adopted to contain particulate emission/Air Pollution	DG set will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.
7	**Waste Management**	
7.1	Total quantity of solid waste generation	1,657 kg/day
7.2	Whether Solid Waste Management layout plan by earmarking the location as well as area designated for installation of Mechanical Composter and Material Recovery Facility submitted or not.	During Operation Phase, about 1,657 kg/day (@ 0.20 kg/capita/day for industrial plots, Commercial plots, SCOs & Bays, Utilities & Other Services) of solid waste will be generated. Biodegradable waste will be converted into manure using composters of capacity 500 kg & 250

		kg. A separate area has already been earmarked for segregation of solid waste in the layout plan. Recyclable component will be disposed off through authorized recycler vendors. Inert waste will be dumped to authorized dumping site. Domestic hazardous waste will be disposed off to authorized vendors. Thus, solid waste will be managed as per provision of Solid Waste Management Rules, 2016.
7.3	Details of management of Hazardous Waste.	Hazardous Waste will be managed & disposed off to authorized vendors as per the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and its amendments.
8	**Energy Saving & EMP**	
8.1	Power Consumption:	Total power demand for the proposed project will be 1,850 which will be provided by Punjab State Power Corporation Limited (PSPCL).
8.2	Energy saving measures:	Individual plot owners will themselves be responsible for energy conservation. LED street lights will be installed within the project premises.
8.3	Details of activities under Environment Management Plan.	Details of activities under Environment Management Plan is given below:

S. No.	**Title**	**Construction Phase**		**Operation Phase**
		Capital Cost (in Lakhs)	**Recurring Cost (in Lakhs per Annum)**	**Recurring Cost (in Lakhs per Annum)**
1.	Air Pollution Control (tarpaulin sheets/ barricading, water sprinklers, etc.)	8	1	1

2.	Waste water Management (Dual plumbing system, Sewage Treatment Plant of 270 KLD based on MBBR technology followed by UF)	50	1	5
3.	Noise Pollution Control (Maintenance of machinery & PPE's)	2	1	1
4.	Landscaping (1200 nos. of trees and green area development)	13	2	6 (For 3 years)
5.	Solid Waste Management (Mechanical composter of capacity 500 kg & 250 kg)	30	2	3
6.	Rainwater Recharging (2 RWR pits with dual bore)	8	1	2
7.	Energy Conservation measures (Solar street lighting)	10	1	1
8.	Miscellaneous (Environment monitoring cost, Management of Environment Cell, etc.)	9	2	2
Total		**Rs. 130 Lakhs**	**Rs. 11 Lakhs**	**Rs. 21 Lakhs**

During meeting, the Committee observed that the Project Proponent has submitted an application for obtaining diversion in forest land of 0.06624 ha for approach access. However, Stage-1 clearance under FCA 1980 is required to be submitted by the Project Proponent at the time of grant of Environmental Clearance, as per the decision of 14th joint meeting of SEIAA/SEAC. The Committee asked the Project Proponent to submit the same.

The Committee further observed that the Project Proponent has earmarked the green area of 1.637 acres to be developed as per the Karnal Technology at two different locations. Further, no other green area except green area under Karnal Technology was proposed to be developed by the Project Proponent. The Committee asked the Project Proponent to provide dedicated area for Karnal Technology and also develop other green area in form of Park/lawns/trees within the project premises. The Project Proponent agreed to provide the same.

The Committee further asked the Project Proponent to submit the revised water balance by calculating the utilization of treated wastewater in the green area during rainy season i.e during minimum utilization period. The Project Proponent agreed to provide the same.

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

1. The Project Proponent shall submit the documents pertaining to the Stage 1 approval for diversion of forest land.

2. The Project Proponent shall provide the dedicated area to be developed as per Karnal Technology and also develop other green area in form of Park/lawns/trees within the project premises. The Project Proponent shall submit the revised layout plan.
3. The Project Proponent shall submit the revised water balance by calculating the utilization of treated wastewater in the green area during rainy season i.e during minimum utilization period.

Deliberations during 256th meeting of SEAC held on 21.08.2023.

The meeting was attended by the following:

(i) Sh. Jivendera, Legal Head M/s Dolphin Mercantile Pvt Ltd
(ii) Mrs. Sushmita, EC-Coordinator M/s Eco Laboratories Pvt Ltd.

The Committee allowed the Environmental Consultant to present the reply of the ADS before Committee as under:

Sr. No.	Queries	Reply
1.	The Project Proponent shall submit the documents pertaining to the Stage 1 approval for diversion of forest land.	Stage 1 approval for diversion of forest land has been obtained from RO, MoEF&CC, Chandigarh vide F no. 9-PBB409/2022-CHA dated 01.08.2023. Copy of the same is enclosed as Annexure I.
2.	The Project Proponent shall provide the dedicated area to be developed as per Karnal Technology and also develop other green area in form of Park/lawns/trees within the project premises. The Project Proponent shall submit the revised layout plan.	Land of 23.64 acres is owned by M/s Dolphin Mercantile Pvt. Ltd. Jamabandi stating the same is enclosed as Annexure II. Out of which, 1.06 acre (0.77 acre+0.29 acre) have been reserved for Karnal Technology. Aksajra plan showing area reserved under Karnal technology is enclosed as Annexure III(a). Also, layout plan depicting 1.06 acre of land reserved for Karnal technology is enclosed as Annexure III(b)
3.	The Project Proponent shall submit the revised water balance by calculating the utilization of treated wastewater in the green area during rainy season i.e during minimum utilization period.	In continuation with previous reply, revised water balance diagram is enclosed as Annexure IV

The Committee, on perusal of reply submitted by the Project Proponent, observed that the Project Proponent has proposed to utilize the excess treated wastewater of 113.5 KLD during rainy season in the land area of 1.06 acre proposed to be developed under Karnal Technology. Out of the 1.06 acre of land area, 0.29-acre falls outside but adjoining to the project site and remaining land area of 0.77 acre falls within the project premises.

The Committee observed that 1.06 acre of land area proposed to be developed under Karnal technology is not sufficient to cater to the excess treated wastewater of 113.5 KLD. The Committee asked the Project Proponent to submit the revised proposal.

After detailed deliberations, SEAC decided to defer the case till submission of the revised proposal for utilization of the treated wastewater.

Item No. 256.05: Application for Environmental Clearance for carrying out mining of minor minerals (sand) at Village Dagana Kalan, Tehsil & District Hoshiarpur, Punjab, by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Hoshiarpur. (Proposal No. SIA/PB/MIN/438245/2023).

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Hoshiarpur Division has applied for obtaining Environmental Clearance under category B2 and 1(a) of the Schedule appended with the EIA notification dated 14.09.2006 for carrying out mining of minor minerals (sand) at the mining site of Village Dagana Kalan **(River bed mining site)**, Tehsil & District Hoshiarpur, Punjab.

The Department has deposited requisite fee of Rs. 3,000/-vide reference no. N195232549390642 dated 14.07.2023 for obtaining Environmental Clearance for carrying out mining in the above mining site. The adequacy & deposition of the requisite fee by the applicant has been checked & verified by the supporting staff of SEIAA. The Mining Plan was approved by Assistant Geologist, Punjab vide Letter No. Glg/Pb/M.P/Dagana Kalan /904 dated 22.03.2023.

Deliberations during 256th meeting of SEAC held on 21.08.2023.

The meeting was attended by the following:

(i) Mr. Paras Mahajan, Asst. Geologist.
(ii) Sh. Sartaj Singh Randhawa, Executive Engineer-Hoshiarpur Drainage –cum-Mining & Geology Division, Hoshiarpur.
(iii) Mr. Sandeep Kumar, SDO, Hoshiarpur

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

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	Sartaj Singh Randhawa, Executive Engineer-Hoshiarpur Drainage –cum-Mining & Geology Division, Hoshiarpur, WRD Punjab 9417900074 sartaj.randhawa074@punjab.gov.in
ii)	Name of Environmental Consultant Mobile No. Email ID	**Right Source Industrial Solutions Pvt. Ltd** **8977495343** **eiaemp@rightsource.co.in**
iii)	Online Proposal No.	--
iv)	Project Name & Location	Dagana Kalan Sand Mining Project Village: Dagana Kalan Tehsil- Hoshiarpur

		District- Hoshiarpur, State Punjab
v)	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals

1.0 The details of the mining project are as under:

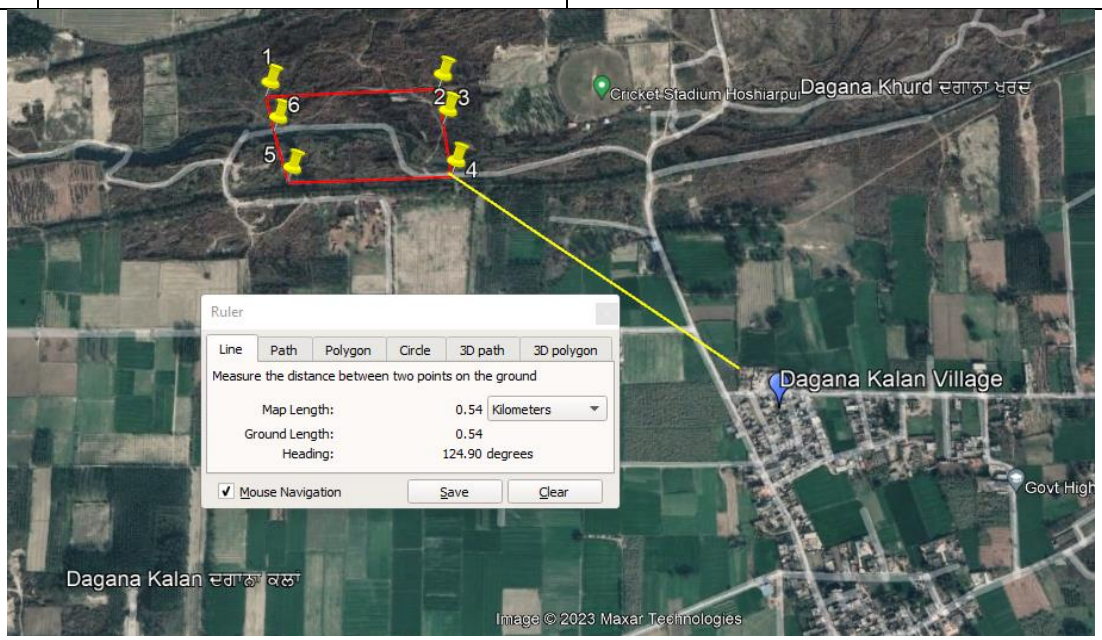
<table>
<tr><th>S.No.</th><th>Item</th><th colspan="4">Details</th></tr>
<tr><td>a.</td><td>Category of the Project as per the EIA notification dated 14.09.2006</td><td colspan="4">B2</td></tr>
<tr><td>b.</td><td>Hadbast No. of the Village</td><td colspan="4">231</td></tr>
<tr><td rowspan="3">c.</td><td colspan="5">Details of Khasra No. as under:</td></tr>
<tr><td>Khasra No. as per proposal</td><td>Khasra No. as per DSR</td><td>Khasra No. as per consent of land</td><td>Name of owner of the land as per land NOC, DSR and Jamabandi</td></tr>
<tr><td>99,100,101,102,103, 106,107,108,109,111,113,114,115,126,127,134,133/338</td><td>Not mentioned in the DSR.

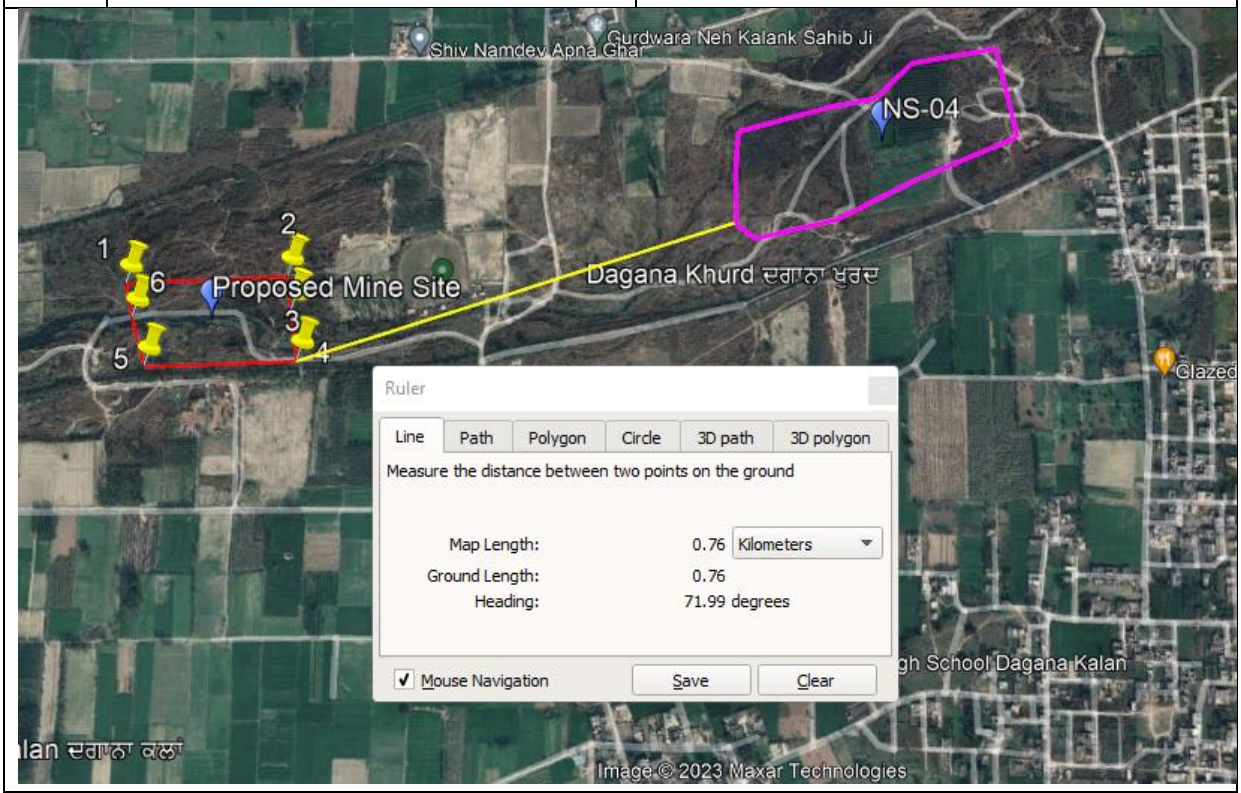
(as on Pg. No 302 mentioned at Sr. no. 05 with Code- NS 05)</td><td>The consent of land is not in order since the name of the owner and the signing authority is not reflected.</td><td>Haravtar Singh, S/o Jagdish Singh</td></tr>
<tr><td></td><td colspan="4">The proposal is public mining site</td></tr>
<tr><td>d.</td><td colspan="2">Whether the mining area is less than area mentioned in the DSR, (If yes) the proposed mining area shall be earmarked in the KML file with different color.</td><td colspan="3">No, the Dagana Kalan sand mining area mentioned in the DSR is same as per the proposal submitted.</td></tr>
<tr><td>d.1</td><td colspan="2">(i) Area & Quantity details as per Mining plan and proposal.
(ii) Area and permissible quantity details as per DSR.</td><td colspan="3">(i) 3.63 Ha (Proposed Resized Area-1.5 Ha)* and 4038 TPA
(ii) 3.63 Ha and 39726.72 MT

*- <u>According to notification PMMR 08.03.2013, 2.13 Ha area of the proposed mine site will come in flood protection embankment (bundh) area.</u></td></tr>
<tr><td>e</td><td colspan="2">Longitude & Latitude of the mining site</td><td colspan="3"><table><tr><th colspan="3">Geo-Coordinates of the Lease Area</th></tr><tr><th>Pillar No.</th><th>Latitude</th><th>Longitude</th></tr></table></td></tr>
</table>

		B.P 1	31°32'6.43"	75°51'47.31"
		B.P 2	31°32'6.82"	75°51'57.45"
		B.P 3	31°32'4.93"	75°51'57.78"
		B.P 4	31°32'2.28"	75°51'58.31"
		B.P 5	31°32'1.96"	75°51'48.75"
		B.P 6	31°32'4.58"	75°51'47.85"
f.	Details of cluster formation	There is no cluster formation, cluster letter is submitted.		
g.	Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)	Attached Land NOC Submitted		
h.	Whether demarcation/erection of boundary pillars on the site has been done.	Attached Demarcation Report Submitted		
i.	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be	A copy of the certificate issued by the Divisional Forest Officer, Department of Forest & Wildlife to the effect that the proposed mining site is not included in the area notified under section 4 & 5 of PLPA 1900 and Eco-sensitive zone of wildlife sanctuary and conservation reserves covered under the wildlife protection act, 1972 and Punjab Wildlife Preservation Act, 1959 submitted. Further, as per the report of Sub-Divisional level Committee, Hoshiarpur, DFO has no objection in this regard.		
j.	Salient features of approved mining plans	Salient features of approved mining plan are presented in Environment Management Plan (EMP) and Pre-feasibility Report (PFR), Submitted.		
k.	Method of mining	Open cast Manual method of Mining is proposed for mining.		
l.	No. of workers on the site when fully operational	35		
m.	Total water requirement for domestic and other usage and its source	Domestic: 1.00 KLD Dust Suppression: 0.60 KLD Green Belt: 1.00 KLD **Total: 2.60 KLD**		

n.	Waste water generation and its disposal	Mobile toilet with Septic tank followed by Soak pit.
o.	Information regarding nos of truck/trollies per day for carrying the excavated material on the proforma prescribed in the DSR and map showing the transportation route with proper earmarking of katcha, pakka road and ROW.	Submitted
p.	Activities to be undertaken under EMP along with its cost.	Submitted.
q.	Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.	No litigation is pending against the proposed mining site Self-Declaration certificate has been submitted.

i)	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	No trees would be felled during mining activity.
ii)	The Department shall earmark, on the KML file, the distance from the habitation area from sand mining site. The Department shall certify that the same is in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.	Dagana Kalan is the nearest village is at a distance of 0.54Km towards SE direction. The same has been incorporated in the KML file and will be presented before the committee.
		
iii)	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Road Bridge – 2.76 Km towards ENE direction from the mine lease area. The same has been incorporated in the KML file and will be presented before the committee.
		

iv)	In case, the proposed mining site does not include in a cluster, the Department shall earmark on the KML file, the distance from the nearest mining site.	The proposed mining site does not include in a cluster. Distance from the nearest mining site Dagana Kalan (NS-04) Sand Mine 0.76 Km towards ENE. The same has been incorporated in the KML file and will be presented before the committee. Below image shows the KML file, the distance from the nearest mining site.
		
v)	The Department shall outline the environmental impact of the mining operations carried out at site. The Department shall also mention the mitigation measures proposed for mitigating the environmental impacts	The key impact areas for mining operations are: Air, land, water, noise etc. Impacts identified for the said mining site along with the proposed mitigation measures are submitted.
vi)	The Department/Project Proponent shall include in the EMP, the additional environmental activities to be undertaken by incurring expenditure @ Rs. 0.50/ton of the total quantity permitted for mining in ECs in case of manual mining and @ Rs. 1.50/ton in case of semi-mechanized mining. Any	Submitted.

	of the following additional environmental activities may be undertaken as a part of EMP:	

During meeting, the committee observed that coordinates of the site were not mentioned in the Annexure V of the approved DSR; in continuation, the Project Proponent apprised the Committee that the coordinates of the proposed mining site are mentioned in Annexure 'G' of the approved DSR. The Committee perused the same and observed that the coordinates of the proposed site given in the Annexure-G of the approved DSR matches with the proposal.

The Committee further perused the proposal of the Department to carryout transportation of RBM from mining site by employing dumpers having carriage capacity of appx. 20 tonnes or as per availability of trucks and trolleys. In this regard, the Committee apprised the Department that SEAC in its 234th meeting held on 12.12.2022, after taking into the consideration the discussion held in the 15th joint meeting of SEIAA & SEAC devised criteria regarding method of sand mining proposed for State of Punjab, wherein it has been mentioned that for transportation of minor minerals, tippers having capacity up to 10 ton may be allowed and for capacity of the tipper more than 10 ton, the permission of concerned department responsible for maintenance of that road should be obtained. The Department agreed to employ tippers of capacity equivalent to or not more than 10 Ton.

The Committee further raised following observations during meeting and the Project Proponent submitted the pointwise reply as under:

Sr. No.	**Observation raised by SEAC**	**Reply given by the Project Proponent**
1.	The Project Proponent shall submit the revised EMP	Submitted.
2.	The Project Proponent shall submit the Land NoC for khasra No. and demarcation report (including layout) for proposed mining site measuring 1.5 Ha out of 3.63 Ha.	Submitted.
3.	The project proponent shall submit the L- section/cross section of the proposed site.	Submitted.
4.	The Committee asked the Department to submit an undertaking duly signed by the DMO to the effect that the khasra Nos & area mentioned in the application proposal and land NOC are as per the latest jamabandi of Village Dagana Kalan, Tehsil & District Hoshiarpur.	Submitted.

After detailed deliberations, SEAC decided to forward the application proposal to SEIAA with recommendation to grant Environment Clearance under EIA Notification dated 14.09.2006 for carrying out mining of minor minerals (sand) in the area of 1.5 Ha for the quantity of 4038

TPA, which shall not exceed the quantity of 39726.72 Ton as per the approved DSR at Village Dagana Kalan, Tehsil & District Hoshiarpur, Punjab, subject to the conditions as under:

Specific conditions:

(i) The project proponent shall demarcate the mining lease area in the presence of Lambardar of the village, project proponent/ contractor, owner of the land and owner of the adjoining land, Revenue officer & Mining officer, etc. Mining lease area will be demarcated on the ground with pucca pillars with reference to some permanent benchmark before starting any mining activity at site.

(ii) Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the Mining official and its geo-coordinates are made available to the District Level Committee.

(iii) Mining shall be carried out through semi- mechanized method as proposed in the mining plan.

(iv) Mining shall be as per the approved Development/Mining Plan prepared for this project and as per the Mines & Mineral (Development & Regulation) Act, 1957 and rules framed there under as amended from time to time, other Acts/rules related with mining of minor minerals.

(v) The mining activity shall be carried out strictly as per the Sustainable Sand Mining Management Guidelines 2016, the provisions made in Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by MoEF&CC, New Delhi as amended from time to time and the guidelines issued by the Geological Survey of India.

(vi) The mining operation will be carried out only from sun-rise to sunset.

(vii) The project proponent shall earmark at least two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site and monthly monitoring of the depth is to be carried out. District Mining Officer is to monitor the same.

(viii) The project proponent shall obtain Consent to Establish and Consent to Operate from the Punjab Pollution Control Board (PPCB) and effectively implement all the conditions stipulated therein.

(ix) The project proponent shall observe the mining site after every 15 days and in case, a Schedule-I or Schedule-II species as per Wildlife Act or any rare or endangered species are reported, the Mining Officer will get a conservation plan prepared in consultation with the Department of Wildlife and ensure its implementation.

(x) The mining of minor mineral (sand) shall be carried out only up to a depth of 3m as proposed in the approved Mining plan or above the groundwater level, whichever is less.

(xi) The mining shall be carried out by the contractor/lessor as per the Environment Management Plan prepared and development / mining plan prepared as per the Mines & Mineral (Development & Regulation) Act, 1957 / other Acts/Rules related with mining of minor minerals. It shall be ensured that no mining shall be carried out during the monsoon season as defined by the Meteorological department.

(xii) The project proponent and Mining officer shall ensure that wherever deployment of labour attracts the Mines Act, the provisions thereof shall be strictly followed.

(xiii) The project proponent shall undertake plantation/afforestation work by planting native species in the nearby area/ adjacent to the mine lease.

(xiv) The project proponent shall ensure that effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the ambient air quality parameters conform to the norms prescribed by the Ministry of Environment, Forests & Climate Change (MoEF&CC) /PPCB in this regard.

(xv) The project proponent shall undertake adequate safeguard measures during extraction of sand and ensure that due to this activity, the hydro-geological and ecological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area by establishing a network of existing wells, if any, and installing new piezometers during the mining operation.

(xvi) The periodic monitoring of groundwater[(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority (CGWA) and the data thus collected may be sent regularly to the MoEF&CC and its Regional office at Chandigarh, CGWA, the Regional Director, Central Ground Water Board; SEIAA, Punjab and PPCB. If at any stage, it is observed that the groundwater table is getting depleted or rising due to the mining activity, necessary corrective measures shall be carried out.

(xvii) The project proponent shall obtain necessary prior permission of the competent authorities/CGWA for drawl of requisite quantity of water (surface water and groundwater), if any, required for the project.

(xviii) In case, mining site falls in the notified block declared by the CGWA, the project proponent shall obtain necessary prior permission for drawl of requisite quantity of water for domestic purposes from District Advisory Committee (DAC) and only use treated waste water for dust suppression activities.

(xix) Adequate numbers (as proposed) of trees shall be planted, protected, maintained and established in vacant area in the village near the mining site.

(xx) Appropriate mitigation measures shall be taken by the project proponent to prevent pollution at the mining site in consultation with the PPCB. It shall be ensured that there is no leakage of oil and grease at the mining site from the vehicles/mining equipment used for transportation.

(xxi) Vehicular emissions shall be kept under control and regularly monitored. The project proponent shall ensure that, as far as possible, the transportation route will be away from the habitation area and will not pass through any village. The transportation hours of mined material shall be restricted to non-peak hours only.

(xxii) The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. All the public roads as well as approach roads shall be maintained and it shall be ensured that the tippers carrying mined material are not loaded beyond the permissible load as per the designed load

bearing capacity of the road. Moreover, provision of sufficient funds shall be made in the budget for the proper maintenance of the roads.

(xxiii) A first aid room shall be provided in the project both during construction and operations of the project.

(xxiv) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.

(xxv) Provision shall be made for the housing of workers, if residing at site, within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. In case of non-residential/daily workers, provision of adequate bath rooms, mobile toilets, and mobile STP shall be made to avoid open defecation and treated domestic effluent shall be discharged onto the land for plantation.

(xxvi) The municipal solid waste generated shall be disposed of as per Solid Waste Management (SWM) Rules 2016. Segregation of bio-degradable and non-biodegradable wastes shall be done at site and disposed of as per provisions of SWM Rules. Dustbins will be provided at site and the workers will be guided to put all the waste in these dustbins. if any, in the dustbin. No littering will be permitted at the site as well as in the vicinity.

(xxvii) The critical parameters such as Respirable Suspended Particulate Matter(RSPM) (Particulate matter with size less than 10 microns i.e., PM10) and Nitrogen oxides (NOx) in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(Total Dissolved Solids(TDS), Dissolved Oxygen(DO), pH, Faecal Coliform and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA. II(M) dated 27.05.2009 issued by MoEF&CC, which is available at www.envfor.nic.in shall also be referred in this regard for its compliance.

(xxviii) The project proponent shall take all precautionary measures during mining operation for conservation and protection of rare and endangered flora & fauna found in the study area. Action plan for conservation of flora and fauna shall be prepared in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to this project site shall be effectively implemented. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of action plan shall be submitted to the Regional office of the MoEF&CC, Chandigarh and SEIAA, Punjab.

(xxix) Vehicles hired to be used for transportation of mined material should be in good condition and should conform to the applicable air and noise emission standards as provided in the Motor Vehicles Act,1988.

(xxx) Ambient noise levels should conform to the prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored.

(xxxi) The risk assessment and disaster management plan should be prepared.

(xxxii) The project proponent shall submit the site plan showing the earmarked area for storage of mined material.

(xxxiii) No mining operation shall be carried out at any point within 75 m of railway line, 60 m from national highway, 50 m from HT line/any public works/reservoirs, tanks/canal/public roads and buildings or inhabitations or 10 m of outer edge of any village road. A safety barrier of 7.5m width shall be left intact around the mine lease boundary.

(xxxiv) The project proponent shall ensure the implementation of the post-closure mining plan as proposed by the project proponent in the Mining plan.

(xxxv) The project proponent shall comply with the condition imposed by District Forest Officer (DFO) while granting NOC.

General Conditions:

(i) No change in mining technology and scope of working should be made without prior approval of the MoEF&CC.

(ii) No change in the calendar plan including excavation, quantum of mineral sand/gravel (minor mineral) and waste should be made.

(iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM) and NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the PPCB.

(iv) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM) & NOx should be regularly submitted to the MoEF&CC including its Regional office located at Chandigarh and the PPCB / Central Pollution Control Board (CPCB) once in six months and SEIAA, Punjab.

(v) Personnel working in dusty areas should wear protective respiratory devices and should be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

(vi) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a senior executive, who will report directly to the head of the organization.

(vii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the MoEF&CC and its Regional office located at Chandigarh and SEIAA, Punjab.

(viii) The project proponent should inform to the Regional Office of MoEF&CC located at Chandigarh and SEIAA, Punjab regarding the date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

(ix) The Regional office of MoEF&CC located at Chandigarh and PPCB shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional office by furnishing the requisite data / information / monitoring reports.

(x) The project proponent shall submit six-monthly reports on the status of compliance of the stipulated environmental clearance conditions including the results of monitored data (both in hard copies as well as by e-mail) to the MoEF&CC, its Regional office Chandigarh, the respective Zonal Office of CPCB , PPCB, and SEIAA, Punjab. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office MoEF&CC, Chandigarh, the respective Zonal Office of CPCB and PPCB, and SEIAA, Punjab.

(xi) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

(xii) The project proponent should display a copy of the clearance letter at the Regional office, District Industries Centre and the Collector's office/ Tehsildar's office.

(xiii) The environmental statement for each financial year ending 31 March in Form-V as is mandated to be submitted by the project proponent to the PPCB (as prescribed under the Environment (Protection) Rules, 1986 amended from time to time), shall also be put on the website of the company along with the status of compliance of environmental clearance conditions. In addition, it shall also be sent to the Regional office of the MoEF&CC, Chandigarh and SEIAA, Punjab by e-mail.

(xiv) The project proponent shall adhere to the commitments made in the Environment Management Plan.

(xv) The project proponent should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the environmental clearance letter informing that the project has been accorded Environmental Clearance (EC) and a copy of the clearance letter is available with the PPCB and also at web site of MoEF&CC at http://envfor.nic.in and a copy of the same should be forwarded to the Regional office of MoEF&CC at Chandigarh and SEIAA, Punjab.

(xvi) The MoEF&CC and SEIAA, Punjab or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

(xvii) The SEIAA may cancel the EC granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this EC, it is found/ come to the knowledge of the SEIAA that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the EC.

(xviii) The project proponent shall get the micro chemical analysis of the mined material done from an approved laboratory once in a year and shall submit the analysis results to the MoEF&CC/PPCB and SEIAA, Punjab.

(xix) The project proponent shall ensure that the contractor shall engage people of local area for mining purpose as far as possible, so as to have opportunities of employment for them.

(xx) The project proponent may apply for transfer of EC under EIA notification dated 14.09.2006 to the other contractor finalized by the Department of Industries & Commerce to SEIAA, Punjab. However, no activity shall be undertaken by the contractor till the EC is transferred in his name and he is lawfully bound to comply with the conditions of the EC.

(xxi) The monitoring of the mining project in respect of environment management shall be carried out by the State/District Level Environment Management Cells constituted by the Govt. of Punjab vide notifications dated 03.12.2012.

(xxii) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days.

Item No. 256.06: Application for Environmental Clearance for carrying out mining of minor minerals (sand) at Village Kaila, Tehsil Dharamkot, District Moga, Punjab, by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Ferozepur. (Proposal No. SIA/PB/MIN/428874/2023).

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Ferozepur Division has applied for obtaining Environmental Clearance under category B2 and 1(a) of the Schedule appended with the EIA notification dated 14.09.2006 for carrying out mining of minor minerals (sand) at the mining site of Village Kaila **(Agriculture site)**, Tehsil Dharamkot, District Moga, Punjab.

The Department has deposited requisite fee of Rs. 5800/- dated 25.07.2023 for obtaining Environmental Clearance for carrying out mining in the above mining site. The adequacy & deposition of the requisite fee by the applicant has been checked & verified by the supporting staff of SEIAA. The Mining Plan was approved by Assistant Geologist, Punjab vide Letter No. Glg/Pb/M.P/Kaila /1965 dated 20.07.2023.

Deliberations during 256th meeting of SEAC held on 21.08.2023.

The meeting was attended by the following:

(i) Mr. Paras Mahajan, Asst. Geologist.
(ii) Sh. Lovpreet Singh, SDO, Department of Mining & Geology.
(iii) Dr. KL Satapathy, Environmental Consultant, M/s GRC India.

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

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	DMO Moga Office Of Executive Engineer/Ferozepur Drainage-Cum-Mining & Geology Water Resources Department, Punjab 89-Jhoke Road, Ferozepur 8146687777 xengolewala@rediffmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	Grass Roots Research and Creation (P) Ltd. 0120-4044630 info@grc-india.com
iii)	Online Proposal No.	**SIA/PB/MIN/438245/2023**
iv)	Project Name & Location	Kaila Sand Mining Project Village: Kaila Tehsil- Dharamkot

		District- Moga, Punjab
v)	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals

1.0 The details of the mining project are as under:

<table>
<tr><th>Sr. No.</th><th>Item</th><th colspan="4">Details</th></tr>
<tr><td>i.</td><td>Category of the Project as per the EIA notification dated 14.09.2006</td><td colspan="4">B2</td></tr>
<tr><td>ii.</td><td>Hadbast No. of the Village</td><td colspan="4">247</td></tr>
<tr><td>iii.</td><td colspan="5">Details of Khasra No. as under:
<table>
<tr><th>Khasra No. as per proposal</th><th>Khasra No. as per DSR</th><th>Khasra No. as per consent of land</th><th>Name of owner of the land as per land NOC, DSR and Jamabandi</th></tr>
<tr><td>3//20/2, 21, 22, 4//25, 13//1/2, 4, 5/2, 8, 15, 14//11</td><td>Not Mentioned</td><td>3//20/2, 21, 22, 4//25, 13//1/2, 4, 5/2, 8, 15, 14//11</td><td>Satnam Singh
Kulwinder Singh
Makhan Singh</td></tr>
<tr><td colspan="4">The proposed site is a public mining site.</td></tr>
</table></td></tr>
<tr><td>iv.</td><td colspan="2">Whether the mining area is less than area mentioned in the DSR,(If yes) the proposed mining area shall be earmarked in the KML file with different color.</td><td colspan="3">No</td></tr>
<tr><td>v.</td><td colspan="2">i. Area & Quantity details as per Mining plan and proposal
ii. Area and permissible quantity details as per DSR</td><td colspan="3">Area as per Mine Plan – 2.90 Ha.
Quantity as per Approved Mine Plan - 41054 TPA

Area as per DSR – 9.77 Ha.
Quantity as per Approved DSR – 234245.52 TPA</td></tr>
<tr><td>vi.</td><td colspan="2">Details as per Mining plan</td><td colspan="3">Approved by: Assistant Geologist, Punjab bearing Letter no Glg/Pb/M.P/Kaila/1965.
Date of Approval: 20.07.2023
Approved Mining Lease Area: 2.90 Ha.
Approved Mining Quantity: 41054 TPA
Depth of Mining (m): 1 m</td></tr>
<tr><td>vii.</td><td colspan="2">Longitude & Latitude of the mining site</td><td colspan="3">
<table>
<tr><th>Pillar No.</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td colspan="3">Block-I</td></tr>
<tr><td>1.</td><td>30°59'6.05"N</td><td>75°13'53.67"E</td></tr>
</table></td></tr>
</table>

		2.	30°59'6.04"N	75°13'56.03"E
		3.	30°59'5.19"N	75°13'56.06"E
		4.	30°59'5.14"N	75°13'53.69"E
		Block-II		
		5.	30°59'4.78"N	75°13'58.77"E
		6.	30°59'4.85"N	75°14'1.12"E
		7.	30°59'2.95"N	75°14'1.22"E
		8.	30°59'2.90"N	75°13'58.81"E
		Block-III		
		9.	30°59'5.03"N	75°14'1.45"E
		10.	30°59'6.85"N	75°14'1.49"E
		11.	30°59'6.84"N	75°14'3.47"E
		12.	30°59'6.32"N	75°14'3.48"E
		13.	30°59'6.31"N	75°14'5.86"E
		14.	30°59'5.07"N	75°14'5.79"E
		Block-IV		
		15.	30°59'6.87"N	75°14'3.49"E
		16.	30°59'8.29"N	75°14'3.49"E
		17.	30°59'8.34"N	75°14'5.91"E
		18.	30°59'9.59"N	75°14'5.98"E
		19.	30°59'9.65"N	75°14'8.71"E
		20.	30°59'8.43"N	75°14'8.77"E
		21.	30°59'8.47"N	75°14'10.99"E
		22.	30°59'6.91"N	75°14'11.04"E
		Block-V		
		23.	30°59'2.87"N	75°14'3.80"E
		24.	30°59'2.94"N	75°14'6.61"E
		25.	30°59'2.48"N	75°14'8.30"E
		26.	30°59'0.95"N	75°14'7.81"E
		27.	30°59'0.95"N	75°14'3.81"E
viii.	Details of cluster formation	No cluster is formed, cluster letter is attached as **Annexure 14**		
ix.	Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)	Land NOC submitted online as **Annexure-3**		
x.	Whether demarcation/erection of boundary pillars on the site has been done.	Demarcation done on 26-12-2022. Copy of demarcation report Submitted.		
xi.	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be	**Site has been proposed in the Sub-Divisional Committee report, however, no comments have been given in the same.**		
xii.	Salient features of approved mining plans	Date of approval- 20-07-2023 Total Quantity-41054 tonnes		
xiii.	Method of mining	Opencast Semi-mechanized		
xiv.	No. of workers on the site when fully operational	24		

<table>
<tr><td>xv.</td><td>Total water requirement for domestic and other usage and its source</td><td>Domestic: 0.20 KLD
Dust Suppression: 0.10 KLD
Plantation: 1.45 KLD
Total: 1.75 KLD</td></tr>
<tr><td>xvi.</td><td>Waste water generation and its disposal</td><td>Nil</td></tr>
<tr><td>xvii.</td><td>Information regarding nos of truck/trollies per day for carrying the excavated material on the proforma prescribed in the DSR and map showing the transportation route with proper earmarking of katcha, pakka road and ROW.</td><td>14 Trucks per day
Transportation route map attached as Annexure 18</td></tr>
<tr><td>xviii.</td><td>Activities to be undertaken under EMP along with its cost.</td><td>
<table>
<tr><th>S.No</th><th>Particulars</th><th>Capital Cost(Rs)</th><th>Recurring Cost(Rs)</th></tr>
<tr><td>1.</td><td>Repairing of road for transport of mining material and its subsequent maintenances</td><td>40,000</td><td>12,000</td></tr>
<tr><td>2.</td><td>Water Sprinkling Measures</td><td>1,00,000</td><td>50,000</td></tr>
<tr><td>3.</td><td>Drinking water facility, Septic Tank & Mobile toilets and solid waste management</td><td>1,00,000</td><td>25,000</td></tr>
<tr><td>4.</td><td>Safety shoes/masks/earplugs/
first aid kit etc.</td><td>50,000</td><td>20,000</td></tr>
<tr><td>5</td><td>Additional Environment Activities(Green Belt Development)</td><td>1,45,000</td><td>75,000</td></tr>
<tr><td></td><td>Total</td><td>4,35,000</td><td>1,82,000</td></tr>
</table>
</td></tr>
<tr><td>xix.</td><td>Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.</td><td>No litigation is pending against the proposed mining site
Uploaded online as Annexure 20</td></tr>
</table>

i)	The Department shall provide details pertaining to No. of trees, if any, to	No trees would be felled during mining activity

<table>
<tr><td></td><td>be felled for carrying out mining activity.</td><td></td></tr>
<tr><td>ii)</td><td>The Department shall earmark, on the KML file, the distance from the habitation area from sand mining site. The Department shall certify that the same is in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.</td><td>Distance from nearest habitation is 0.78Km in W direction</td></tr>
<tr><td>ii)</td><td>The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.</td><td>Distance from Bridge 2.44 Km towards SE</td></tr>
<tr><td>iv)</td><td>In case, the proposed mining site does not include in a cluster, the Department shall earmark on the KML file, the distance from the nearest mining site.</td><td>Distance from the nearest mining site is 3.70 Km towards WNW.</td></tr>
<tr><td>v)</td><td>The Department shall outline the environmental impact of the mining operations carried out at site. The Department shall also mention the mitigation measures proposed for mitigating the environmental impacts</td><td>Air-The major contribution of air pollution is by excavation, loading, transportation, hauling operation & handling of the mineral. This will lead to momentary rise in the particulate matter (PM10). As such there will be no noticeable impact on air quality.
Water- Proposal for mining are given during dry months, therefore water quality will not deteriorate.
Noise-Mining is of open cast semi mechanized with deployment of light excavator. Therefore noise level too will not show any significant increase.</td></tr>
<tr><td>vi)</td><td>The Department/Project Proponent shall include in the EMP, the additional environmental activities to be undertaken by incurring expenditure @ Rs. 0.50/ton of the total quantity permitted for mining in ECs in case of manual mining and @ Rs. 1.50/ton in case of semi-mechanized mining. Any of the following additional environmental activities may be undertaken as a part of EMP:</td><td><table><tr><td>1</td><td>Additional Environment Activities (Green Belt Development)</td><td>1,45,000</td><td>75,000</td></tr></table></td></tr>
</table>

During meeting, the Committee perused the KML file of the proposed site and observed that the nearest civil structure is situated at a distance of 27M from the proposed mining site.

Thereafter, Assistant Geologist, Department Mines & Geology, Punjab apprised the Committee that as per Punjab Minor Mineral Rules, 2013, no quarrying operations or workings shall be carried on or permitted within minimum distance of *50 meters from any reservoir, tank, canal or other public works such as public roads and buildings or inhabited sites."*

He further requested the Committee to defer the case to the next meeting so that revised proposal be submitted in due course of time.

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 proposal by taking into consideration the minimum distance criteria laid down in the Punjab Minor Mineral Rules, 2013 (PMMR, 2013)

(ii) The Project Proponent shall submit the superimposed map earmarking the proposed mining site with the area approved in the DSR in two different colors.

(iii) The Project Proponent shall submit the photographs of the demarcation of the proposed mining site.

(iv) The Project Proponent shall submit an undertaking duly signed by the DMO to the effect that the khasra Nos & area mentioned in the application proposal are as per the land NOC and latest jamabandi of proposed mining site.

(v) The Project Proponent shall submit the revised details of the activities under the EMP.

Item No 256.07: Application for Environmental Clearance under EIA notification dated 14.09.2006 for Area development project namely "Aerotropolis Residential Project" near IT City and Aero City, SAS Nagar, Punjab, by M/s Greater Mohali Area Development Authority (GMADA), (Proposal No. SIA/PB/MIS/69508/2021).

GMADA has applied for Environmental Clearance under EIA Notification dated 14.09.2006 for establishment of Area & Township development project namely "Aerotropolis Residential Project" near IT City and Aero City, SAS Nagar, Punjab. The total land area of the project is 1653.06 acres (668.97 Ha). The project is covered under activity 8 (b) and category B1 of the schedule appended with the EIA notification dated 14.09.2006.

GMADA was issued Terms of Reference for carrying out EIA study for obtaining Environment Clearance under EIA notification dated 14.09.2006 vide letter SEIAA/MS/2021/4799 dated 01.10.2021.

GMADA 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.

GMADA has submitted the Form 2, conceptual layout plan, EIA report after incorporating compliance of Terms of Reference and other additional documents along with processing fee as per Govt. of Punjab notification dated 27.06.2019 amounting to Rs. 20,06,911/-, Rs.5,01,651/- vide UTR No. PUNBR52021091314586 dated 13.09.2021 & Rs.15,05,260/- vide UTR No. HDFCR52022031553 dated 15.03.2022. The adequacy of the fee deposited by the Project Proponent has been checked & verified by the supporting staff of SEIAA.

PPCB vide letter no. 2607 dated 27.04.2022 has sent the latest construction status report with the details as under:

"It is further intimated that as per the brief project report submitted along with the application, the proposed project is planned to be developed over an area of 1653.06 Acres (Residential 'Area @ 600.35 acres, EWS @ 82.20 acres, Commercial Area @ 128.60 acres, Amenities area @ 95.29, Park area @ 151.62 acres, Road area @ 485 acres, sector road area @ 109.81 acres) adjoining to IT city and Aerocity Scheme in Mohali. Pocket-wise detail is as under:

Pocket	***Residential***	***EWS***	***Commercial***	***Amenities***	***Parks***	***Roads***	***Sector Road***	***Total***
A	*260.74*	*34.20*	*50.26*	*38.05*	*59.0*	*245.69*	*22.31*	*710.25*
B	*75.46*	*9.76*	*8.42*	*16.64*	*20.20*	*53.86*	*22.0*	*206.34*
C	*65.32*	*8.75*	*50.04*	*9.0*	*20.57*	*61.1*	*27.7*	*242.48*
D	*198.83*	*29.49*	*19.88*	*31.6*	*51.85*	*124.55*	*37.8*	*494*
Total	*600.35*	*82.20*	*128.6*	*95.29*	*151.62*	*485.2*	*109.81*	*1653*

As per the brief project report water demand during the operation phase will be 25.51 MLD out of which 17.008 MLD fresh water will be met through borewell & Canal water and 8.50 MLD will be met by recycling of treated wastewater. Approximately 21.69 MLD of wastewater will be generated which will be treated in Sewage treatment Plant based on SBR or suitable technology of capacity 22 WILD proposed to be constructed within the proposed project. The treated wastewater will be used for flushing, landscaping and non-potable uses. The PP has proposed 8 DG sets of 500 KVA capacity for power back up. The project proponent has proposed that the solid waste will be handled as per the provisions of the Solid Waste Management Rules, 2016.

The project site was visited by officer of the Board along with Sh. Varinder Kumar, SDO, GMADA on 31/3/2022 and it was observed as under:

1. *No proper demarcation has been done of the proposed site. As per the site shown by the representative, the site is divided into 4 pockets pocket A, B, C & D. The Pocket A is located adjoining to Village Bakarpur, Naraingarh Pocket B is located adjoining to Village Natran, Bari, Pocket C is located adjoining to Siaun, Patton, Pocket D is located adjoining to Village Manakpur Kallar. The Pocket D is located at a distance of around 300-400m from the Aero Business Park By M/s Landchester Infrastructure Associates, Village Manakpur Kahar, Mohali which is approved for establishment of Orange and Green category industries. However, presently no industry has been established within the Aero Business Park. No natural drain passes through the project site, however treated waste-water from STP, diggian flows through a open drain passing from Block-B & thereafter reaching village Nattran.*
2. *No site development has been started at the site. Plot of the land acquired under the project is agriculture land.*
3. *As per the boundary limits site shown by the project proponent during the visit, there is 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 250 m from the boundary of the proposed site of the project. No air polluting industries is located within a radius of 100m from the boundary of the proposed site. Therefore, the site of the project is conforming to the sitting guidelines laid down by the Govt. of Punjab, Department of Science Technology and Environment vide order dated 25/07/2008 as amended on 30/10/2009.*

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

Furthermore, the Pocket D of this project is located at a distance of around 300- 400m from Aero Business Park developed by M/s Landchester Infrastructure Associates, Village Manakpur Kahar, Mohali which is approved for the establishment of Orange and Green category of industries (In the said project site, Rice Sheller/ Saila, Jaggery Units etc. can also be established being in in Orange/ Green category). But presently no industry has been established within the Aero Business Park.

Deliberations during 220th meeting of SEAC held on 16.05.2022.

The meeting was attended by the following:

(i) Er. Ranjiv Manakotla, Division Engineer, GMADA.
(ii) Mr. Devendra Singh, EIA Coordinator, M/s Global Managements & Engineer Consultants International Jaipur, Rajasthan.

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

S.No	***Description***	***Details***
1	**Basic Details-**	
1.1	Name of Project & Project Proponent:	**Project Name**-"Aerotropolis Project" **Project Proponent-** Greater Mohali Area Development Authority (GMADA)
1.2	Proposal:	SIA/PB/MIS/69508/2021
1.3	Location of Project:	The project is located at Village Bakarpur, Rurka, Safipur, Matran, Siaun, Manauli, Patton, ChauMajra & SainiMajra Tehsil Mohali & Village Chatt , Naraingarh, **Tehsil-** Dera Bassi, **District**- S.A.S Nagar, **State**-Punjab
1.4	Details of Land area & Built up area:	**Total Plot Area**-6689696.47 sqm No built-up area has been mentioned as this is an area development project.
1.5	Category under EIA notification dated 14.09.2006	Category –**B1** 8 (b) **Township and Area Development Project.**
1.6	Cost of the project	Rs. 826.53 Crore
2.	**Site Suitability Characteristics**	
2.1	Whether project is suitable as per the provisions of Master Plan:	Yes, the project falls in Residential & Mix Use zone as per Master Plan, SAS Nagar.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	Land area of 1653.06 acres has been acquired by the Department of Housing & Urban Development, Punjab. A copy of land acquisition documents for acquiring the land area falling under Pocket A, B, C & D situated at aforementioned villages submitted.
3	**Forest, Wildlife and Green Area**	
3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	No, self-declaration to the effect that no land is covered under the provision of the Forest Conservation Act,1980 is submitted.
3.2	Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900.	No, self-declaration in this regard submitted.
3.3	Whether project required clearance under the provisions of Wildlife	No, self-declaration in this regard submitted.

	Protection Act 1972 or not:	
3.4	Distance of the project from the Critically Polluted Area.	No, self-declaration in this regard submitted.
3.5	Whether the project falls within the influence of Eco-Sensitive Zone or not.	No Eco-Sensitive Zone is present near the project site.
3.6	Green area requirement and proposed No. of trees:	**Green Belt Area**-61.133 Ha (151 acres) **No. of Plants to be planted** – 1500 trees per Hectare
4.	**Configuration & Population**	
4.1	Proposal & Configuration	Details as per the conceptual plans of Pocket-A,B,C&D submitted.
4.2	Population details	
5	**Water**	
5.1	Total fresh water requirement:	18026.460 KLD fresh water
5.2	Source:	From Bore well & Canal
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) *Details thereof*	As per chapter no. 5 of Punjab Guidelines for Ground Water Extraction and Conservation 2020, Urban Local Bodies and Panchayati Raj Institutions, Improvement Trusts and Area Housing and Urban Development Authorities and Place of Worship are exempted from seeking permission for Ground Water Extraction and Conservation.
5.4	Total wastewater generation:	Total waste water generation: 23434.89 KLD
5.5	Treatment methodology: *(STP capacity, technology & components)*	**-Capacity -**2 STP (1x12 MLD) & (1x10 MLD) **-Technology-** Sequential Batch Reactor Technology - **SBR Technology** The complete biological operation is divided into cycles. Each cycle is of 3 – 5 hr duration, during which all treatment steps take place. Cyclic operation: A basic cycle comprises • **Fill-Aeration (F/A)** • **Settlement (S)** • **Decanting (D)** During the period of a cycle, the liquid is filled in the SBR Basin up to a set operating water level. Aeration Blowers are started for aeration of the effluent. After the aeration cycle, the biomass settles under perfect settling conditions. Once Settled the supernatant is removed from the top using a DECANTER. Solids are wasted from the tanks during the decanting phase. These phases in a sequence constitute a cycle, which is then repeated.

<table>
<tr><td></td><td></td><td>Chlorine Contact Tank
The Effluent from the SBR basins will be collected in Chlorine Contact Tank. The supernatant thus collected will get disinfected in Chlorine Contact Tank by adding suitable dose of chlorine and finally it is utilized for flushing, general washing and green belt development.</td></tr>
<tr><td>5.6</td><td>Treated wastewater for flushing purpose:</td><td>Treated wastewater for flushing purpose: 9013.23 KLD</td></tr>
<tr><td>5.7</td><td>Treated wastewater for green area in summer, winter and rainy season:</td><td>
<table>
<tr><th>Season of watering</th><th>Rate of watering</th><th>Plantation area</th><th>Total Water required</th></tr>
<tr><td>summer season</td><td>5.5 litre per sq m</td><td>611339.82 sq m</td><td>3362.36 KLD</td></tr>
<tr><td>winter season</td><td>1.8 litre per sq m</td><td>611339.82 sq m</td><td>1100.41 KLD</td></tr>
<tr><td>monsoon season</td><td>0.5 litre per sq m</td><td>611339.82 sq m</td><td>305.66 KLD</td></tr>
</table>
</td></tr>
<tr><td>5.8</td><td>Utilization/Disposal of excess treated wastewater.</td><td>Excess Treated Water of 8641.55 KLD will be supplied to farmers for Agriculture use. No agreement executed with the farmers for utilization of treated wastewater has been submitted.</td></tr>
<tr><td>5.9</td><td colspan="2">Cumulative Details:
<table>
<tr><th>Sr. No.</th><th>Total water Requirement</th><th>Total wastewater generated</th><th>Treated wastewater</th><th>Flushing water requirement</th><th>Green area requirement</th><th>Fire Station and other utility</th><th>Excess treated waste water to Farmers land.</th></tr>
<tr><td>1</td><td>27039.69 KLD</td><td>23434.89 KLD</td><td>21091.40 KLD</td><td>9013.23 KLD</td><td>3336.62 KLD</td><td>100 KLD</td><td>8641.55 KLD</td></tr>
</table>
</td></tr>
<tr><td>5.10</td><td>Rain water harvesting proposal:</td><td>Total 40 number of rain water harvesting pits shall be constructed to recharge rain water.</td></tr>
<tr><td>6</td><td colspan="2">Air</td></tr>
<tr><td>6.1</td><td>Details of Air Polluting machinery:</td><td>No Air polluting machineries except DG set will be installed which will be provided with adequate stack height.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>1. A dust control plan will be implemented viz. regular daily spraying of water on the roads and dust emission area in the project site.
2. Regular maintenance of vehicles and equipment will be carried out.
3. The vehicles having PUC will be used during the construction period. Vehicles will run under limited speed to prevent SPM generation.</td></tr>
<tr><td>7</td><td>Waste Management</td><td></td></tr>
<tr><td>7.1</td><td>Total quantity of solid waste generation</td><td>47823.15 kg/day</td></tr>
<tr><td>7.2</td><td>Details of management and disposal of solid waste (Mechanical</td><td>Estimated quantity of solid waste generation from the project during operation phase is 47.81 TPD. The solid waste will comprise of biodegradable waste i.e. domestic waste, food waste, horticultural waste etc. Recyclable waste like plastic, paper, tin, glass etc. Different</td></tr>
</table>

<table>
<tr><td></td><td>Composter/Compost pits)</td><td>colored bins will be used for collection of biodegradable and non – biodegradable waste as per MSW rules, 2000. Private sweepers and MSW handlers will be appointed by the RWA for door to door collection. Bio-degradable wastes will be composted in onsite organic waste converter.</td></tr>
<tr><td>7.3</td><td>Details of management of plastic waste generated from project</td><td>Non –biodegradable fraction like plastic, tin, glass etc. will be sold to local recyclers. Horticultural waste shall be collected and disposed off with biodegradable waste. Rest inert MSW will be handed over to Municipal Corporation for final disposal.</td></tr>
<tr><td>7.5</td><td>Details of management of Hazardous Waste.</td><td>There will not be any generation of hazardous waste from the project except used Oil from DG sets (Hazardous Waste category 5.1). The same shall be stored in HDPE tanks and will be sold to the authorized vendors in the region.</td></tr>
<tr><td>8</td><td>Energy Saving & EMP</td><td></td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>During construction phase-The estimated electrical load will be 100 KVA. The supply will be sourced from Punjab State Power Corporation Ltd.

During Operation phase- The estimated electrical load is 190 MVA. The supply will be sourced from Punjab state Power Corporation Ltd.</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>No suitable energy saving measures to be adopted has been submitted.</td></tr>
<tr><td>8.3</td><td>Details of activities under Environment Management Plan:</td><td>
<table>
<tr><th>S No</th><th>Particulars</th><th>Proposed Capital Cost (In lacs)</th><th>Recurring Cost in (In lacs)</th></tr>
<tr><td>1.</td><td>Management of Air pollution</td><td>25.0</td><td>4.0</td></tr>
<tr><td>2.</td><td>Sewage Treatment Plant & laying sewer lines</td><td>10000</td><td>250</td></tr>
<tr><td>3.</td><td>Environment Monitoring and Management</td><td>4.0</td><td>4.0</td></tr>
<tr><td>4.</td><td>Energy conservation plan</td><td>150</td><td>15</td></tr>
<tr><td>5.</td><td>Rain Water Harvesting (Recharge Pits & Drains)</td><td>331</td><td>20</td></tr>
<tr><td>6.</td><td>Green Belt & Park Development</td><td>600</td><td>100</td></tr>
<tr><td colspan="2">Total</td><td>11110</td><td>373</td></tr>
</table>
</td></tr>
</table>

Annexure -1

Pocket –A Area Details

Total Scheme Area			710.2545	Acs.	100.00%
Residential Plots Detail					
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.Yds.	Requirement
1	23.39X58.89	2000.00	27	54000.00	
2	23.21 x 43.24	1200.00	56	67200.00	
3	15.24 X 27.43	500.00	518	259000.00	441.00
4	10.97 X 22.86	300.00	705	211500.00	660.00
5	9.14 X 18.29	200.00	918	183600.00	662.00
6	6.86 X 18.29	150.00	788	118200.00	696.00
7	6.10 X 13.70	100.00	376	37600.00	314.00
			3388.00	**931100.00**	
				192.38	**ACRES**
DIPLOMATIC ENCLAVE					
1	as per site	10302.00	1	10302.00	
2	67.47x123.93	10000.00	5	50000.00	
3	67.47x101.48	8145.27	4	32581.08	
4	as per site	7670.60	1	7670.60	
5	as per site	7598.10	1	7598.10	
				108151.78	
				22.35	**ACRES**

Green Park Area Detail		
Sr.No.	Park No.	Area in Acs.
1	Park-1	0.30
2	Park-2	0.97
3	Park-3	0.30
4	Park-4	0.30
5	Park-5	0.29
6	Park-6	0.30
7	Park-7	0.23
8	Park-8	0.27
9	Park-9	0.85
10	Park-10	0.16
11	Park-11	0.75
12	Park-12	0.62
13	Park-13	0.48
14	Park-14	2.44
15	Park-15	0.57
16	Park-16	1.00
17	Park-17	1.70
18	Park-18	0.72
19	Park-19	1.97
20	Park-20	0.37
21	Park-21	0.19
22	Park-22	0.23
23	Park-23	0.23
24	Park-24	7.36
25	Park-25	1.65
26	Park-26	1.05
27	Park-27	0.80
28	Park-28	1.60
29	Park-29	0.50
30	Park-30	1.67
31	Park-31	0.50
32	Park-32	1.00

Green Park Area Detail		
Sr.No.	Park No.	Area in Acs.
33	Park-33	0.39
34	Park-34	0.62
35	Park-35	0.81
36	Park-36	0.85
37	Park-37	2.63
38	Park-38	0.20
39	Park-39	0.19
40	Park-40	0.45
41	Park-41	0.56
42	Park-42	0.65
43	Park-43	0.85
44	Park-44	0.52
45	Park-45	0.54
46	Park-46	1.43
47	Park-47	1.59
48	Park-48	0.83
49	Park-49	1.66
50	Park-50	0.79
51	Park-51	0.58
52	Park-52	0.34
53	Park-53	0.93
54	Park-54	1.60
55	Park-55	0.26
56	Park-56	0.52
57	Park-57	1.02
58	Park-58	1.40
59	Park-59	0.52
60	Park-60	0.31
61	Park-61	1.31
62	Park-62	1.72
63	Park-63	0.36
64	Park-64	0.18
		57.98

Area Detail			
Sr. No.	Category	Area in Acs.	%
1	Area under Residential Plotted	192.38	27.09%
2	Area under Group Housing -1	8.06	8.05%
3	Area under Group Housing -2	9.74	
4	Area under Group Housing -3	11.27	
5	Area under Group Housing -4	11.23	
6	Area under Group Housing -5	7.74	
7	Area under Group Housing -6	9.10	
8	Diplomatic Enclave	22.35	3.15%
9	Area under School -1	5.00	1.76%
10	Area under School -2	4.36	
11	Area under Primary School -1	1.40	
12	Area under Primary School -2	1.03	
13	Area under Nursery School -1	0.69	
14	Area under Institutional-1	3.88	0.60%
15	Area under Institutional-2	0.41	
16	Area under Public amenity-1	3.50	2.48%
17	Area under Public amenity-2	0.53	
18	Area under Community Facility	2.00	
19	Area under Health Facility	2.60	
20	Area under Religious Facility	0.22	
21	Area under Cremation Ground	1.13	
22	Area under Pumping Station	1.37	
23	Area under STP/RMC	1.49	
24	Area under Sports cum Club Facility	4.78	
25	Area under Commercial	29.55	4.16%
26	Area under mixed use	18.35	2.58%
27	Area under parks	57.98	8.16%
28	Area under open space and pedestrian infrastructure	24.99	3.52%
29	Area under EWS-1	13.98	3.44%
30	Area under EWS-2	5.00	
31	Area under EWS-3	5.44	
32	Area under Parking	41.90	5.90%
33	Area under Roads	206.80	29.12%
34	Total area under Road and Parking	248.71	

Commercial Plots Detail					
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.Yds.	Required
1	167.22	200.00	426	85200.00	418
2	83.61	100.00	254	25400.00	248
3	50.17	60.00	363	21780.00	328
4	20.90	25.00	426	10650.00	380
			1469	**143030.00**	
				29.55	
				Acres	

Pocket –B Area Details

Total Scheme Area			206.389	Acs.
Residential Plots Detail				
S. No.	**Plot Size (In Mts.)**	**Area Of Plot (In Sq.Yds.)**	**No. Of Plots**	**Total Area In Sq.Yds.**
1	15.24 X 27.43	500	233	116500
2	10.97 X 22.86	300	396	118800
3	9.14 X 18.29	200	322	64400
4	6.86 X 18.29	150	250	37500
5	6.10 X 13.70	100	108	10800
			1309	**348000**

Area Detail			
Sr. No.	**Category**	**Area in Acs.**	**%**
1	Area under Residential Plotted	**71.90**	34.84%
2	Area under Independent floor Site	**5.76**	2.79%
3	Area under School -1	4.87	2.36%
4	Area under Community Facility	0.68	4.43%
5	Area under Health Facility	0.50	
6	Area under Religious Facility-1	0.52	
7	Area under Sports Facility/Club	4.34	
8	Area under Services	1.91	
9	Area under Amenities	1.20	
10	Area under Commercial	**8.97**	4.35%
11	Area under Parks	16.59	8.04%
12	Area under open space,open Ground and Pedestrian Infrastructure	8.62	4.18%
13	Area under EWS	**3.17**	1.54%
14 (i)	Area under Parking	12.43	6.02%
14 (ii)	Area under Roads	64.93	31.46%
14 (iii)	Total area under Road and Parking	**77.35**	
	Percentage Total		100.00%

Commercial Area Detail of Pocket - 1											
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS
1	167.22	200	47	7859.34	3	23578	10845.89	624.82	11470.71	16774.6	2.48
2	83.61	100	18	1504.98	3	4514.94	2076.87	119.65	2196.52		
			65	**9364.32**		**28093**	**12922.76**	**744.46**	**13667.23**	**16774.6**	**2.48**
Commercial Area Detail of Pocket - 2											
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS
1	167.22	200	97	16220.34	3	48661	22384.07	1289.52	23673.59	32859.51	2.01
2	83.61	100	40	3344.4	3	10033.2	4615.27	265.88	4881.15		
3	50.167	60	86	4314.362	2	8628.72	3969.21	228.66	4197.87		
4	20.9	25	87	1818.3	1	1818.3	836.42	48.18	884.60		
			310	**23879.1**		**67322.9**	**30968.55**	**1784.06**	**32752.61**	**32859.51**	**2.01**
Commercial Area Detail of Pocket - 3											
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS
1	20.9	25	22	459.8	1	459.8	211.51	12.18	223.69	393.27	3.60
			22	**459.8**		**459.8**	**211.51**	**12.18**	**223.69**	**393.27**	**3.60**
Commercial Area Detail of Pocket - 4											
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS
1	20.9	25	14	292.6	1	292.6	134.60	7.75	142.35	743.65	3.71
			14	**292.6**		292.6	**134.60**	**7.75**	**142.35**	**257.5**	**3.71**
Commercial Area Detail of Pocket - 5											
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS
1	20.9	25	16	334.4	1	334.4	153.82	8.86	162.69	420.6	5.35
			16	**334.4**		**334.4**	**153.82**	**8.86**	**162.69**	**420.6**	**5.35**
Commercial Area Detail of Pocket - 6											
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS
1	20.9	25	10	209	1	209	96.14	5.54	101.68	286.9	5.85
			10	**209**		**209**	**96.14**	**5.54**	**101.68**	**286.9**	**5.85**
Commercial Area Detail of all Pockets											
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS
1	167.22	200	144	24079.68	3	72239	33229.96	1914.33	35144.29	50284.88	2.11
2	83.61	100	58	4849.38	3	14548.1	6692.14	385.53	7077.67		
3	50.167	60	85	4264.195	2	8528.39	3923.06	226.00	4149.06		
4	20.9	25	149	3114.1	1	3114.1	1432.49	82.52	1515.01		
				36307.36		**98429.7**	**45277.65**	**2608.39**	**47886.0345**	**50284.88**	**2.11**

Pocket –C Area Details

Total Scheme Area		242.5396	Acs.
Residential Plots Detail			
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.Yds.
1	15.24 X 27.43	500	203	101500
2	10.97 X 22.86	300	260	78000
3	9.14 X 18.29	200	250	50000
4	6.86 X 18.29	150	303	45450
5	6.10 X 13.70	100	178	17800
			1194	**292750**

Area Detail			
Sr. No.	Category	Area in Acs.	%
1	Area under Residential Plotted	**60.49**	24.94%
2	Area under Group Housing -1	**5.68**	2.34%
5	Area under School -1	**4.19**	1.73%
7	Area under Cultural Facility	**0.97**	0.40%
6	Area under Community Facility	**0.8**	2.33%
8	Area under Religious facility-1	**0.60**	
9	Area under Transport facility	**0.49**	
10	Area under Sports Facility cum club	**3.76**	
3	Area under Commercial	**10.73**	4.43%
4	Area under CBD (8 Sites)	**30.87**	12.73%
11	Area under open space,open ground and pedestrian infrastructure & CBD plaza	**14.67**	6.05%
12	Area under Parks	**21.82**	9.00%
13 (i)	Area under Parking	**14.47**	5.97%
14 (ii)	Area under Roads	**73.00**	30.10%
15(iii)	Total area under Road and Parking	**87.47**	
	Percentage Total		100.00%

Commercial Area Detail of Pocket - 1

S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS Provided
1	167.22	200	95	15885.9	3	47657.7	21922.54	1262.93	23185.47		
2	50.167	60	25	1254.175	2	2508.35	1153.84	66.47	1220.31	26048.3	2.11
3	20.9	25	30	627	1	627	288.42	16.62	305.04		
			150	**17767.08**		**50793.05**	**23364.80**	**1346.02**	**24710.82**	**26048.3**	**2.11**

Commercial Area Detail of Pocket - 2

S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS Provided
1	83.61	100	28	2341.08	3	7023.24	3230.69	186.12	3416.81	3516.17	2.06
			28	**2341.08**		**7023.24**	**3230.69**	**186.12**	**3416.81**	**3516.17**	**2.06**

Commercial Area Detail of Pocket - 3

S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS Provided
3	50.167	60	22	1103.674	2	2207.348	1015.38	58.49	1073.87	1544.09	3.38
4	20.9	25	92	1922.8	1	1922.8	884.49	50.95	935.44		
			114	**1103.674**		**2207.348**	**1015.38**	**58.49**	**1073.87**	**1544.09**	

Commercial Area Detail of Pocket - 4

S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS Provided
1	83.61	100	21	1755.81	3	5267.43	2423.02	139.59	2562.60	2614.13	2.04
			21	**1755.81**		**5267.43**	**2423.02**	**139.59**	**2562.60**	**2614.13**	**2.04**

Commercial Area Detail of Pocket - 5

S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS Provided
3	50.167	60	36	1806.012	2	3612.024	1661.53	95.72	1757.25	2517.72	9.58
1	20.9	25	48	1003.2	1	1003.2	461.47	26.58	488.06		
			84	**1086.8**		**1086.8**	**2123.00**	**122.30**	**2245.31**	**2517.72**	**9.58**

Commercial Area Detail of Pocket - 6

S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS Provided
1	167.22	200	73	12207.06	3	36621.18	16845.74	970.46	17816.20		
2	83.61	100	13	1086.93	3	3260.79	1499.96	86.41	1586.37	22313	2.09
3	50.167	60	32	1605.344	2	3210.688	1476.92	85.08	1562.00		
4	20.9	25	40	836	1	836	384.56	22.15	406.71		
			158	**15735.33**		**43928.658**	**20207.18**	**1164.11**	**21371.29**	**22313**	**2.09**

Commercial Area Detail of all Pockets

S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS Provided
1	167.22	200	168	28092.96	3	84278.88	38768.28	2233.39	41001.68		
2	83.61	100	62	5183.82	3	15551.46	7153.67	412.11	7565.79	58553.4	2.08
3	50.167	60	115	5769.205	2	11538.41	5307.67	305.77	5613.44		
4	20.9	25	210	4389	1	4389	2018.94	116.31	2135.25		
				43434.99		**115757.75**	**53248.57**	**3067.58**	**56316.1454**	**58553.4**	**2.08**

Green Park Area Detail		
Sr.No.	**Park No.**	**Area in Acs.**
1	Park-1	0.74
2	Park-2	3.23
3	Park-3	7.35
4	Park-4	0.94
5	Park-5	2.11
6	Park-6	0.26
7	Park-7	0.71
8	Park-8	0.87
9	Park-9	0.27
10	Park-10	0.28
11	Park-11	0.33
12	Park-12	0.74
13	Park-13	0.47
14	Park-14	0.23
15	Park-15	0.4
16	Park-16	0.14
17	CBD green	2.75
	Total	**21.82**

Pocket –D Area Details

Total Scheme Area		493.8772	Acs.
Residential Plots Detail			
S. No.	**Plot Size (In Mts.)**	**Area Of Plot (In Sq.Yds.)**	**No. Of Plots**	**Total Area In Sq.Yds.**
1	15.24 X 27.43	500	350	175000
2	10.97 X 22.86	300	504	151200
3	9.14 X 18.29	200	834	166800
4	6.86 X 18.29	150	724	108600
5	6.10 X 13.70	100	341	34100
		Total	**2753**	**635700**
				131.34

Green Park Area Detail

Sr.No.	Park No.	Area in Acs.	Sr.No.	Park No.	Area in Acs.		Sr.No.	Park No.	Area in Acs.
1	Park-1	1.16	11	Park-11	0.64		21	Park-21	0.37
2	Park-2	8.09	12	Park-12	0.64		22	Park-22	0.36
3	Park-3	0.51	13	Park-13	0.49		23	Park-23	0.49
4	Park-4	0.17	14	Park-14	0.54		24	Park-24	0.4
5	Park-5	0.89	15	Park-15	3.48		25	Park-25	0.54
6	Park-6	0.69	16	Park-16	0.66		26	Park-26	0.53
7	Park-7	5.4	17	Park-17	0.29		27	Park-27	0.31
8	Park-8	1.94	18	Park-18	0.34		28	Park-28	0.34
9	Park-9	0.28	19	Park-19	0.64		29	Park-29	0.3
10	Park-10	4.54	20	Park-20	0.36		30	Park-30	0.15
							31	Park-31	0.14
								Total	**35.68**

Area Detail			
Sr. No.	**Category**	**Area in Acs.**	**%**
1	Area under Residential Plotted	131.34	26.59%
2	Area under Group Housing -1	3.08	6.80%
3	Area under Group Housing -2	7.43	
4	Area under Group Housing -3	7.43	
5	Area under Group Housing -4	7.43	
6	Area under Group Housing -5	8.22	
7	Area under Primary School / educational institution -1	1.16	4.05%
8	Area under Primary School / educational institution -2	1.16	
9	Area under Primary School / educational institution -3	1.16	
10	Area under School -1	5.5	
11	Area under School -2	5.5	
12	Area under School -3	5.5	
13	Area under Hospital -1	5.32	2.16%
14	Area under Hospital -2	5.33	
15	Area under College	10	4.29%
16	Area under College	10	
17	Area under Institution-1	0.44	
18	Area under Institution-2	0.73	
19	Area under Community Facility	2.26	2.26%
20	Area under Health Facility	1.13	
21	Area under Religious facility-1	0.73	
22	Area under Religious facility-2	0.58	
23	Area under Sports cum club Facility	4.19	
24	Area under Resource management centre	2.25	
25	Area under Commercial	22.22	4.50%
26	Area under parks	35.68	7.22%
27	Area under open space and pedestrian infrastructure	20.65	4.18%
28	Area under EWS -1	13.83	5.76%
29	Area under EWS -2	6.64	
30	Area under EWS -3	8	
31 (i)	Area under Parking	30.79	6.23%
31 (ii)	Area under Roads	128.20	25.96%
31 (iii)	**Total area under Roads and Parking**	**158.99**	
	Percentage Total		**100.00%**

Commercial Area Detail of all Pockets											
S. No.	Plot Size (In Mts.)	Area Of Plot (In Sq.Yds.)	No. Of Plots	Total Area In Sq.mts.	FAR	Total FAR Area	Parking Area required	Mercentile Parking area required	Parking required 2 ECS/100 sq.mts. + Mercantile parking (in sq.mts.)	Parking Provided (in sq.mts.)	ECS
1	167.22	200	310	51838.2	3	155515	71536.72	4121.14	75657.85	124591	2.22
2	83.61	100	138	11538.2	3	34614.5	15922.69	917.29	16839.97		
2	75.3	90	46	3463.8	2	6927.6	3186.70	183.58	3370.28		
3	50.167	60	264	13244.1	2	26488.2	12184.56	701.94	12886.50		
4	20.9	25	405	8464.5	1	8464.5	3893.67	224.31	4117.98		
			1163	**88548.8**		**232009**	**106724.33**	**6148.25**	**112872.5809**	**124591**	**2.22**

During meeting, the Committee observed that the Project Proponent has not submitted the details of built-up area as per approved FAR and basis for estimating the population, water requirement, flushing requirement, etc. Further, it was informed by the Project Proponent that the excess treated wastewater of 8641.55 KLD is being disposed of to farmers. However, no details for disposing of the treated wastewater to farmers was given in the proposal. Further, the details for the management of Solid Waste have also not been provided. The Committee also observed that the Project Proponent has also not provided the details of the land area under litigation.

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

1. The Project Proponent shall submit the details of the built-up area to be constructed based on approved FAR.
2. The Project Proponent shall submit the details and basis for estimating the population viz a viz water and flushing requirements as per the norms laid down by the Central & State Govt.

3. The Project Proponent shall submit the complete scheme with supporting documents for the utilization and disposal of the excess treated wastewater.
4. The Project Proponent shall submit the proper mechanism for management and treatment of the solid waste being generated from the project.
5. The Project Proponent shall submit the Solid Waste Management Plan and earmark dedicated area in the layout plan for the same.
6. The Project Proponent shall submit the details of the land area of project falling under litigation in an annotated form.
7. The Project Proponent shall propose adequate proposal for adoption of energy conservation measures.
8. The Project Proponent shall submit the revised EMP after incorporating the above said activities.

Deliberations during 227th meeting of SEAC held on 22.08.2022.

The meeting was attended by the following:

(i) Er. Ranjiv Manakotla, Divisional Engineer, GMADA.
(ii) Dr. Meena, EIA Coordinator, M/s Global Managements & Engineer Consultants International Jaipur, Rajasthan.

SEAC allowed the Environmental Consultant of the project proponent to present the reply to the observations made by it in the last of meeting of SEAC held on 16.05.2022. Accordingly, the Environmental Consultant presented the reply as under:

S. No.	Observations	Reply
1.	The Project Proponent shall submit the details of the built-up area to be constructed based on approved FAR	The details of the built-up area to be constructed based on approved FAR submitted.
2.	The Project Proponent shall submit the details and basis for estimating the population viz a viz water and flushing requirements as per the norms laid down by the Central & State Govt.	The detailed calculation of Water and Flushing requirements has been done in accordance with National building code 2016.
3.	The Project Proponent shall submit the Complete Scheme with supporting documents for the utilization and disposal of the excess treated waste water.	The treated wastewater shall be used for irrigation purposes in green belt, parks and Road berms. Moreover, as per PUDA Building Rule 2021 Dual plumbing is compulsory therefore, tertiary level treated water will be supplied for flushing and construction purposes also. Water Balance Diagram for the same is incorporated is submitted.

4.	The project Proponent shall submit the Proper mechanism for management and treatment of the solid waste being generated from the project.	Proper mechanism for management and treatment of the solid waste being generated from the project is being deliberated and submitted**.** Moreover, as per PUDA Building Rules 2021, for plot having built up area more than or equal to 5000 sqm has to manage their waste generated as per Solid Waste Management Rules
5.	The project Proponent shall submit the solid waste Management plan and earmark dedicated area in the layout plan for the same.	The Solid Waste Management Plan has been prepared and is submitted. 1.49 Acre and 2.25 Acre dedicated area has been earmarked for recycling of solid waste. The area earmarked in the layout plan is submitted.
6.	The project Proponent shall submit the details of the land area of project falling under litigation in an annotated form.	The details of the land area of project falling under litigation in an annotated form has been prepared and submitted.
7.	The Project Proponent shall propose adequate proposal for adoption of energy conservation measures.	For Energy Conservation, EEL/3, Star 2 transformer based on BEE Norms and LED lights will be installed. Moreover, As per PUDA Building Rules 2021, Residential Buildings are also recommended to meet its hot water demand from solar water heaters and Solar Photo Voltaic is compulsory based on plot size as Under: - a) For plot Size 400 sqyd to 499 sqyd minimum requirement is 1 KWp SPV b) For plot Size 500 sqyd to 999 sqyd minimum requirement is 2 KWp SPV c) For plot Size 1000 sqyd to 1999 sqyd minimum requirement is 3 KWp SPV d) For plot Size 2000 sqyd and above minimum requirement is 5 KWp SPV
8.	The project proponent shall submit the revised EMP after incorporating the above said activities.	Submitted

The Committee, after perusal of the reply submitted by the project proponent, was found it incomplete w.r.t following:

(i) The details of the No. of Plots, No. Group Housing, No. of School Sites & their area, No. of Institutional Sites & their area, Area of Public Amenities, Area under EWS, Commercial area etc mentioned in Built up Area details does not match with the respective details mentioned in estimating the Water Demand & Population. Further, the details such as Colleges, Reserved Area, RMC etc mentioned in the Water Demand has not been considered in the built-up area details. The discrepancies found in the above details was explained to the project proponent during the meeting.

(ii) The components mentioned in the built-up area details and as mentioned in the Water Demand was not found identical.

(iii) The basis of estimating the Population & Water consumption has not been provided.

(iv) The details of estimating the flushing requirement have not been provided.

(v) The total Water Demand estimated for Pocket-A in Water Balance diagram (Summer season) does not match with the Water Demand calculation provided in **Annexure-II.**

(vi) The Water Balance diagram for Pocket-A and Pocket B,C & D has been provided separately. One Water Balance diagram shall be provided for all the Pockets for all the three seasons.

(vii) The proposed green area mentioned in the proposal was found to be less than the prescribed provision of Master Plan. It should be at least as per the provisions of Master Plan. Further, the distance between plant to plant i.e., 6 meters needs to be checked to increase the No. of trees. The No. of trees @ 1 Tree/80 sqm of land area or 1 Tree/225 sqm of built-up area, whichever is higher, needs to be provided.

(viii) The 40 No. Rain Water Harvesting Pits proposed in the project was found to be inadequate and need to be checked.

(ix) The Wet Waste @ 60% of the total waste to be generated was found to be on the higher side and needs to be checked. Further, the Capital as well as Recurring Cost for setting up of the Solid Waste Management facilities and their subsequent operation & maintenance needs to be provided in the Environment Management Plan.

(x) The CER activities and their budgeting shall be indicated in the Environment Management Plan.

(xi) The details of land area of project falling under litigation shall be depicted in the drawing.

(xii) The project proponent shall provide alternative scheme for the utilizing the excess treated wastewater, in view of the observations made by PPCB that the capacity of the existing terminal STP of Mohali is already short for the present domestic effluent being generated from the area and more effluent load cannot be permitted without the adequate capacity of the Terminal STP.

The Committee, after detailed deliberations, decided to defer the till the receipt of reply of the above said incompletions.

Deliberations during 256th meeting of SEAC held on 21.08.2023.

The meeting was attended by the following:

(i) Er. Ranjiv Manakotla, Divisional Engineer, GMADA.
(ii) Shr. Vijay Garg, SE, GMADA.
(iii) Sh. Vijaypal, JE, GMADA.

SEAC allowed the Project Proponent of the project to present the reply to the observations as under:

S. No.	Additional Detail Sought	Reply

1	The details of the No. of Plots, No. Group Housing, No. of School Sites & their area, No. of Institutional Sites & their area, Area of Public Amenities, Area under EWS, Commercial area etc mentioned in Built up Area details does not match with the respective details mentioned in estimating the Water Demand & Population. Further, the details such as Colleges, Reserved Area, RMC etc mentioned in the Water Demand has not been considered in the built-up area details. The discrepancies found in the above details was explained to the project proponent during the meeting.	Correction has been made and detail of Built-up area as per FAR and Water demand along with estimated population is submitted.
2	The components mentioned in the built-up area details and as mentioned in the Water Demand was not found identical.	Correction has been made and detail of Built-up area as per FAR and Water demand along with estimated population is submitted.
3	The basis of estimating the Population & Water consumption has not been provided.	Estimated population along with Water Consumption is hereby submitted.
4	The details of estimating the flushing requirement have not been provided.	Detail of Estimating the flushing requirement is submitted.
5	The total Water Demand estimated for Pocket-A in Water Balance diagram (Summer season) does not match with the Water Demand calculation provided in Annexure-II.	Correction has been made and detail is hereby submitted.
6	The Water Balance diagram for Pocket-A and Pocket B,C & D has been provided separately. One Water Balance diagram shall be provided for all the Pockets for all the three seasons.	Combined Water Balance diagram for Pocket A, B, C and D has been made and is hereby submitted.
7	The proposed green area mentioned in the proposal was found to be less than the prescribed provision of Master Plan. It should be at least as per the provisions of Master Plan. Further, the distance between plant to plant i.e., 6 meters needs to be checked to increase the No. of trees. The No. of trees @ 1 Tree/80 sqm of land area or 1 Tree/225 sqm of built-up area, whichever is higher, needs to be provided.	Details submitted.
8	The 40 No. Rain Water Harvesting Pits proposed in the project was found to be inadequate and need to be checked.	As per PUDA Building rules 2021, Every plot size above 250 Sqmt (298.99 sqyard) have to construct Rain water Harvesting Structure and for Group Housing site of any plot size have to construct Rain Water Harvesting Structure. Therefore, excluding plot size more than 250 Sqmt and Group Housing site, Detail of no of Rechargewells is submitted.
9	The Wet Waste @ 60% of the total waste to be generated was found to be on the higher side and needs to be checked. Further, the Capital as well as Recurring Cost for setting up of the Solid Waste Management facilities and their	As per NOC issued by MC SAS Nagar, Solid Waste generated in this project will be segregated and processed in Resource management centres constructed within project and after that inert waste will be

	subsequent operation & maintenance needs to be provided in the Environment Management Plan.	transferred to land fill site of MC SAS Nagar Details submitted.
10	The CER activities and their budgeting shall be indicated in the Environment Management Plan.	Details submitted
11	The details of land area of project falling under litigation shall be depicted in the drawing.	Details submitted.
12	The project proponent shall provide alternative scheme for the utilizing the excess treated wastewater, in view of the observations made by PPCB that the capacity of the existing terminal STP of Mohali is already short for the present domestic effluent being generated from the area and more effluent load cannot be permitted without the adequate capacity of the Terminal STP	Letter to Chief Conservator of Soil, Department of Soil and water Conservation, Punjab, Chandigarh was written for providing proposal for utilization of excess treated water in nearby agriculture fields. With reference to that Department of Soil and Water Conservation, Punjab has given their consent for preparing schemes for utilzation of excess treated water. Since, this is totally separate project and STP of Ultimate capacity of this project will be provided in phases (as and when occupancy of residents is there) at reserved site for this purpose. Moreover, Existing terminal STP at Sector 83, Mohali has nothing to do with this project.

The Committee perused the point wise reply of the observations raised to the Project Proponent and after detailed deliberations, decided to defer the case till reply of the below mentioned observations:

(i) The Project Proponent has considered the total water requirement @150 lpcd and flushing water requirement @40 lpcd which needs to be revised to @180 lpcd for total water requirement and @45 lpcd as flushing water requirement, in compliance to the guidelines for preparation of water balance for building construction, township and area development projects.

(ii) The Project Proponent shall specify the No. of beds for Hospitals for estimating the water requirement, in reference to the document titled as "Estimation of Water Requirement for Drinking & Domestic Use" of NBC, 2016 issued Central Ground Water Authority.

(iii) The Project Proponent shall increase the No. of Rain Water Harvesting pits and submit the detailed proposal for management & disposal of storm water.

(iv) As per water balance, the project proponent proposed to utilize the excess treated wastewater within the project for other activities. However, no details regarding the same has been submitted. The Project Proponent shall submit the details for treatment and disposal of excess treated wastewater.

(v) The Project Proponent has submitted the calculation for planting trees by taking into account 1 Tree/80 sqm of green area and 1 Tree/225 sqm of the built-up area. The Project Proponent shall submit the revised calculation by considering 1 Tree/80 sqm of total land area of the project.

(vi) The Project Proponent shall submit the detailed scheme for management and disposal of inorganic fraction of Solid Waste and earmark dedicated space for SWM.

(vii) The Project Proponent shall submit the details of activities along with their budget provisions in the Environment Management Plan.

(viii) The Project Proponent shall submit an undertaking that the land area of 262.51 acres under litigation is under the possession of GMADA.