Proceedings of 225th meeting of State Expert Appraisal Committee (SEAC) held on 25.07.2022 (Monday) at 11:00 AM in the Conference Hall no. 2 MGSIPA Complex, Sector-26, Chandigarh.

The following were present:

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

Item No. 01: Confirmation of the proceedings of 224th meeting of State Level Expert Appraisal Committee held on 11.07.2022.

It was brought to the notice of the Committee that the proceedings of 224th meeting of State Level Expert Appraisal Committee held on 11.07.2022 were prepared and circulated through email on 14.07.2022 to all the Members. No comments have been received from any of the Members. Therefore, the proceedings were uploaded on the Parivesh Portal, after approval of the competent authority.

Later on, it was observed that in the Item no. 224.04 of the proceedings, it has been inadvertently mentioned that the public consultation is required for the project of M/s Sanathan Polycot Pvt Ltd. However, as per Office Memorandum dated 27.04.2018 issued by MoEF&CC, the exemption from the public consultation as provided under para 7(i) III stage (3) (i) (b) of EIA notification dated 14.09.2006, to the projects or activities located within the industrial estates or parks, if applicable as under:

a) Which were notified by the Central Govt. or the State/UT Govt., prior to the said notification coming into force on 14.09.2006.
b) Which obtain prior Environment Clearance as mandated under EIA notification dated 14.09.2006 [Item 7 (c) of the schedule to the said notification].

The proposed industrial unit namely M/s Sanathan Polycot Pvt Ltd shall be setup in the industrial park, Wazirabad which had already been granted Environment Clearance under EIA notification dated 14.09.2006 vide letter no. SEIAA/MS/2022/221 dated 01.07.2022 for the development of Industrial Park at Wazirabad, Tehsil Sirhind, District Fatehgarh Sahib.

Accordingly, as per the above OM, public consultation is not required for the said project and SEIAA was informed vide e-mail dated 15.07.2022 regarding the same.

The SEAC on perusal of the above, confirmed the proceedings.

Item No. 02: Action taken on the proceedings of the 224th meeting of State Level Expert Appraisal Committee held on 11.07.2022.

The action taken on the decisions of 224th meeting of State Level Expert Appraisal Committee held on 11.07.2022 has been completed. The Committee noted the same.

Item no. 225.01: Application for Environmental Clearance under EIA notification dated 14.09.2006 for establishment of residential-cum-commercial complex "Palm Garden" in the revenue estate of Village Sahnewal Khurd Bilga, Tehsil & District Ludhiana, Punjab by M/s Malhotra Land Developers & Colonizers Private Limited. (Proposal No. SIA/PB/MIS/45626/2018).

The Project Proponent has submitted an application for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for establishment of residential cum commercial complex "Palm Garden" in the revenue estate of Village Sahnewal Khurd Bilga, Tehsil & District Ludhiana. The total plot area of the project is 165.80 acres having built up area of 2,28,557.84 sqm. The project is covered under activity B2 & category 8 (b) of the schedule appended with the EIA notification 14.09.2006.

The Project was earlier issued Terms of Reference vide no. SEIAA/2960 dated 21.07.2016 for preparation of the EIA study report. Thereafter, the project was again issued additional specific Terms of Reference w.r.t the violation committed by the project proponent. The details of the additional specific ToR issued are as under:

1. *The project proponent shall make an assessment o ecological damage done and economic benefit derived due to violation and prepare remediation plan and natural & community resource augmentation plan and it shall be prepared as an independent chapter in the environment impact assessment report by the accredited consultants. The collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under Environment (Protection) Act, 1986, or a environmental laboratory accredited by National Accreditation Board for Testing and Calibration Laboratories, or a laboratory of a Council of Scientific and Industrial Research institution working in the field of environment.*
2. *The project proponent will submit copy of Memorandum of Article & Association/ Partnership deed / undertaking of sole proprietorship / list of Directors and names of other persons responsible for managing the day-to – day affairs of the project.*

The Project Proponent mentioned in the application proposal that developmental work pertaining to the 998 plots to be constructed has been carried out up to 3.11% and for shops up to 7.19% and the overall project completion status is less than 20%.

The Project Proponent has submitted an affidavit dated 19.10.2019 to the effect that some construction has been carried out in the complex without obtaining Environmental Clearance in violation of the EIA notification dated 14.09.2006. He further undertakes that the violation committed was inadvertent and the project management has stopped all the construction activity at site. There shall be no further construction activity till the project is granted Environmental Clearance.

The Project Proponent has submitted Final EIA report after incorporating the compliance of Terms of Reference issued by SEIAA. The total cost of the project is Rs. 21.55/- Crore. The Project Proponent has deposited Rs. 2,28,558/- through online system (Rs. 2,01,600/- deposited on 24.01.2022 & Rs. 26,960/- on 15.03.2022). The adequacy of the fee deposited by the promoter company was checked & verified by supporting staff SEIAA.

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

PPCB was requested to send the latest construction status report of the project through e-mail on 19.04.2022. Punjab Pollution Control Board vide letter no. 1602 dated 02.05.2022 has sent the latest construction status report with details as under:

"In reference to above it is intimated that the industry has submitted an application for obtaining Environment Clearance for the project namely "Palm Garden" at NH1 GT Road Sahnewal Khurd Bilga Majjara Ludhiana, Punjab (Proposal No. SIA/ PB/ MIS/45626/2018) and SEAC Punjab has requested to submit the report on the following:

1. *Percentage completion of various activities such as group housing 1 & 2, EWS, plots, SCOs, shall also be informed.*
2. *Status of physical structures within 500 m radius of the site including the status of industries, drain, river, eco-sensitive structure if any.*
3. *Whether the site is meeting the prescribed criteria for setting up of such type of projects. Please send the clear-cut recommendation.*

To verify the latest status the site of the project was visited by officer of the Board on 22.04.2020 and the point wise reply is as under: -

1. *The project proponent has proposed 2 no. Group Housing section and 1 no. EWS black, however no construction activity regarding same has been started yet. Further the project proponent has proposed 998 residential plots out of which only 31. no. plots i.e. 3% approx. have been constructed only wherein 23 families are residing in 23 houses. The project proponent has proposed 153 No. Commercial shops out of which construction of 11 commercial shops has been completed, but no commercial shop has been occupied till date. Therefore, 7% approx. construction of commercial shops has been completed. The project proponent has proposed 71 no. SCOs and no SCO has been constructed yet. Further project proponent has proposed 2 Multiplex, 1 Club, 1 Dispensary, 2 Community center, 1 Temple 1 Gurudwara, 3 Primary School, 1 Higher Secondary School, 1 Public Building, but no construction of public facilities and utilities has been started yet. Hence, 8% approx. project has been completed.*
2. *There is no drain river and eco-sensitive structure is near by the project. Further a BKO exists approx. 450 M away from the project and a hot mix plant M/s S.S Singla Contractor exists adjoining to the boundary wall of the project which is lying defunct now. Further the industry namely M/s Bansal Spinning Mills exists within 100 m from the project. Earlier, BKO was existing 300 feet away from the site, but same was now permanently closed. The work regarding installation of STP of capacity 200 KLD was almost completed except sand filter and activated carbon filter and the domestic effluent of the occupied house was being discharged onto land for plantation to developed in the form of lawns inside the premises after passing through the septic tank. The project proponent has not provided dual plumbing system for reusing the treated domestic effluent.*

3. *The project proponent was earlier granted NOC vide no. ZO/LDH-1/ RO-2/ 2011/NOC-901 dated 10.03.2011 which was extended upto 30.04.2015 through online with the condition that the project proponent will install STP for treatment of domestic waste before the generation of domestic effluent at the project site and subject to the special conditions that: -*
    a. *The project proponent will not do construction activity at site without Environmental clearance as required under the provisions of EIA notification of MoEF, Govt of India dated 10.09.2006.*
    b. *The project proponent shall provide proper and adequate arrangements for rain water harvesting to take care of ground water recharging in the area.*
    c. *The promoters shall provide a minimum buffer of 15 meter of green belt of broad leaf trees towards M/s Singla Hot Mix Plan and M/s Bansal Spinning mils, which are located within 100 meters from the boundary of the proposed project. The species/ varieties of trees shall be decided in the consultation with forest department.*
    d. *Directions u/s 31-A of Air (Prevention& Control of Pollution) Act 1981 and u/s 33-A of Water (Prevention & Control of Pollution) Act, 1974 were issued to PSPL not to release any electric connection vide letter no. 6841-42 dated 09.02.2013.*

It is further intimated that the project proponent has obtained TOR from State Environment Impact Assessment Authority, Punjab vide no SEIAA/2960 dated 21.07.2016 for development of a residential cum commercial complex namely Palm Garden. The condition of buffer zone has been recorded at the time of Fresh TOR issued by State Environment Impact Assessment Authority, Punjab vide no. SEIAA /2960 dated 21.07.2016 as the area falls in spot zoning. The project proponent has already obtained Certificate from DTP, Ludhiana vide no. 846-CTP (PB)/MLP-6 dated 14.03.2012 and the project proponent was granted CTE from Board for established the project vide letter no. CTE/Fresh/LDH2/2021/ 14232574 dated 16/04/2021 valid upto 15/04/2022.

It is pertinent to mention here that in compliance of the hearing as directed by the State Environment Impact Assessment Authority Punjab to launch prosecution against the project proponents and responsible persons of the project namely M/s Palm Gardens village Sahnewal khurd bigla Majra, Tehsil & Distt. Ludhiana u/s 15,16 read with section 19 of the Environmental protection) Act, 1986 the complaint has been filed before the Hon'ble Court of chief Judicial Magistrate Ludhiana on 14.03.2016. The next date of hearing of hearing is 08.07.2022.

Form the facts mentioned above, it is clear that the site of the project is meeting with the prescribed criteria for setting up to such type of projects and it is recommended that the advisory may also be issued to the project proponent to comply with the conditions for Consent to Establish granted to the Project proponent."

Deliberations during 220th meeting of SEAC held on 16.05.2022.

The meeting was attended by the following:

(i) Deepak Ratra, General Manager, M/s Malhotra Land Developers & Colonizers Private Limited.
(ii) Sh. Sandeep Singh, Consultant, M/s. Chandigarh Pollution Testing Laboratory.

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

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	Palm Garden by M/s Malhotra Land Developers & Colonizers Pvt. Ltd.
1.2	Proposal:	SIA/PB/MIS/45626/2018
1.3	Location of Project:	Village Sahnewal Khurd Bilga, Tehsil & District Ludhiana, Punjab
1.4	Details of Land area & Built up area:	Plot area- 165.80 acre Built up area – 2,28,557.84 sqm
1.5	Category under EIA notification dated 14.09.2006	8 (b)
1.6	Cost of the project	Rs. 2155.51 Lacs
2.	**Site Suitability Characteristics**	
2.1	Whether project is suitable as per the provisions of Master Plan:	The project was approved prior to the finalization of the Master Plan of Ludhiana. A copy of the letter dated 14.03.2012 issued by the Chief Town Planner, Punjab submitted.
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 for Change of land Use has been obtained vide letter no.- 846, CTP(Pb)/MPL-6 dated 14.03.2012 issued by Chief Town Planner, Punjab wherein it has been mentioned that due to the approval of the residential cum commercial complex prior to the finalization of the Master Plan, Ludhiana, the project is deemed to be adjusted as sanctioned/permitted.
3	**Forest, Wildlife and Green Area**	
3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	Permission for diversion of 0.0563 hectare of forest land for construction of approach road to residential colony has been obtained vide letter no.- 9-BB518/2008-CHA/145 dated 07.01.2009 from department of MoEF&CC, Govt. of India.
3.2	Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900.	
3.3	Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:	No wildlife area is involved in the project. A self-declaration in this regard submitted.
3.4	Whether the project falls within the influence of Eco-Sensitive Zone or not.	Not applicable as mentioned in the checklist.
3.5	Green area requirement and proposed No. of trees:	Total green area- 45958.7 sqyard No. of trees- 580 trees will be planted at site.
4.	**Configuration & Population**	
4.1	Proposal & Configuration	

Sr. No.	Description	Area Covered	Percentage Area Covered
1.	Area under Residential Plots	343323.9 sqyard	42.78 %
1 (a)	*Group Housing I*	5587.10 Sqyard	---
1 (b)	*Group Housing II*	12180.2 sqyard	
2.	Area under Commercial	37848.57 sqyard	4.72 %
3.	Area under EWS	40123.6 sqyard	5 %
4.	Area under Public Building	73966.38 sqyard	9.22%
5.	Area under Parks	45958.78 sqyard	6.03 %
6.	Area under Roads, Pavements, STP, OHSR and others	261250.77 sqyards	32.55%
	Total	**802472 sqyards = 670866.59 sqm. (165.76 acres)**	**100%**

4.2	Population details	15207 persons
5	**Water**	
5.1	Total fresh water requirement:	1754 KLD

5.2 Details of fresh water requirement w.r.t population.

Sr. No	Description	Plots Population /Plot	Total Population	Rate of total water demand/ person (lpcd)	Rate of fresh water demand	Total fresh water	Rate of flushing water requirement (lpcd)	flushing water Requirement /person (KLD)	Total water Requirement (KLD)
A)	**Domestic**								
(i)	Housing Plots (998 Plots)	5 Persons/DU	4990	135	90	449	45	225	674
ii)	Group Housing-I	300 Persons/Acres	345	135	90	31	45	15	46
iii)	Group Housing-II	300 Persons/ Acres	756	135	90	68	45	34	102
iv)	EWS	400 Persons/ Acres	3316	135	90	298	45	149	447
	Total		**9407**					**423**	**1269**
v)	Visitors (10% of residential population)		941	15	5	5	10	9	14

	vi)	Staff (5% of residential population)		470	45	15	7	30	14	21
	vii)	Commercial (multiplex SCO shops)	100 person/ Acres	782	45	15	12	30	23	35
	viii)	Commercial (Floating)	Floating 90%	704	45	15	11	30	21	32
	ix)	Public Buildings	100 person/ acres	1528	45	15	24	30	45	69
	x)	Public Building (Floating)	Floating 90%	1375	45	15	21	30	41	62
		Total					**926**		**576**	**1502**

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*	A copy of acknowledgment of the application submitted to PWRDA for abstraction of ground water submitted, however quantity of the ground water to be abstracted not specified.
5.5	Total wastewater generation:	1202 KLD
5.6	Treatment methodology: *(STP capacity, technology & components)*	STP of 1500 KLD based on SAFF Technology.
5.7	Treated wastewater for flushing purpose:	576 KLD
5.8	Treated wastewater for green area in summer, winter and rainy season:	For Horticulture purpose Summer- 252KLD Winter- 83KLD Rainy- 23KLD
5.9	Utilization/Disposal of excess treated wastewater.	For irrigation in the land area of 8 acres. Summer- 254KLD Winter- 423KLD Rainy- 483KLD
5.10	Cumulative Details:	

Sr. No.	**Seasons**	**Total water Requirement**	**Total wastewater generated**	**Treated wastewater**	**Flushing water requirement**	**Green area (45958.78 sqyard) requirement**	**Irrigation in 8 acres of land area**

	1.	Summer	1502KLD	1202KLD	1082 KLD	576KLD	252 KLD	254 KLD
	2.	Winter	1502 KLD	1202 KLD	1082 KLD	576 KLD	83 KLD	423 KLD
	3.	Rainy	1502 KLD	1202 KLD	1082 KLD	576 KLD	23 KLD	483 KLD

5.11	Rain water harvesting proposal:	23 rain water harvesting pits will be provided.
6	**Air**	
6.1	Details of Air Polluting machinery:	1. Air pollution during Construction activity, 2. D.G. set
6.2	Measures to be adopted to contain particulate emission/Air Pollution	1. Water sprinkling system shall be installed during construction phase 2. DG sets (capacity 1250 KVA) will be kept in basement and stack height of 6m will be provided.
7	**Waste Management**	
7.1	Total quantity of solid waste generation	6060kg/day
7.2	Details of management and disposal of solid waste (Mechanical Composter/Compost pits)	Not submitted any concrete proposal
7.5	Details of management of Hazardous Waste.	Not submitted any details in this regard.
8	**Energy Saving & EMP**	
8.1	Power Consumption:	6.1MW
8.2	Energy saving measures:	LEDs will be used for energy saving measures. • 250 no. of Solar Lighting will be used for dual lighting system. • LED Street light unit generally consumes about 80 watts of power.
8.3	Details of activities under Environment Management Plan:	

S. No.	Details of various activities to control all type of pollution	Capital Cost (in lacs)	Recurring Cost (Lacs) per annum
(i)	During Construction phase:		
	• Waste Water Treatment facilities	10	2
	• Air Pollution Control Measures	5	1
	• Solid waste management	5	1
(ii)	During Operation phase:		
	• Waste Water Treatment facilities	100	15
	• Solid Waste Management Facilities	15	10
	• Rain Water Harvesting and Recharging Facilities	12	4
	• Green Belt Development	15	8
	• Miscellaneous	10	3
	Total	**172**	**45**

During meeting, the Committee perused the population being estimated for the project and observed that the project proponent has considered only 5 persons per Dwelling Unit in case of the residential plots. However, the Committee was of the opinion that the project proponent should consider at least 15 persons per residential plot. Further, the basis for estimating population for Group Housing-I & II @300 persons/acre, EWS @ 400 persons/acre and commercial & public @100 persons/acre has not been submitted.

The Committee further observed that the project proponent has yet to obtain the permission for abstraction of ground water from PWRDA. In this regard, the project proponent apprised the Committee that the application has already been filed with PWRDA for abstraction of groundwater. The Committee suggested to the Project Proponent that after calculating the population as per above, the water demand may increase and the project proponent has to apply afresh application with PWRDA for abstracting ground water. The Project Proponent agreed to the same and assured the Committee that revised calculation pertaining to the population estimation shall be submitted along with the revised permission for abstraction of ground water.

The Committee further observed that the total green area available with the promoter company is 45958.78 sqyards (38421.5 sqm) as per the approved layout plan. The maximum quantity of treated wastewater which can be utilized for the development of the parks cannot exceed 211 KLD in the summer season, 69 KLD during winter season and 19 KLD during rainy season. However, the promoter company has proposed to utilize 252 KLD, 83 KLD and 23 KLD of treated wastewater during summer, winter & rainy season. The Project Proponent was asked to remove the aforementioned discrepancy and submit the revised calculations pertaining to the disposal of treated wastewater in the green area available within the project. The Project Proponent agreed to the same and assured the Committee that to resubmit the proposal for the utilization of treated wastewater in the green area of 45958.78 sqyards (38421.5 sqm) available within the project.

The Committee further observed that the Project Proponent has not submitted any adequate proposal for utilization of excess treated wastewater of quantity 254 KLD, 423 KLD and 483 KLD in the land area of 8 acres. Further, the land ownership document for 8 acres of land was perused and it was observed that the said land lies in the ownership of M/s Punnu Land Developers Private Limited. The Project Proponent informed the Committee that M/s Punnu Land Developers is the subsidiary company of the promoter company. The Committee was of the opinion that the land area wherein the treated wastewater of the project has proposed to be disposed of shall lie under the ownership of the Project Proponent. The Committee was not satisfied with the proposal given by the Project Proponent and asked him to suggest some alternate proposal for utilization of excess treated waste water. The Project Proponent agreed to the same and assured the Committee that he shall submit the revised proposal.

The Committee further perused the damage assessment report wherein the Project Proponent has proposed to spend Rs. 46 lacs for carrying out compensatory remediation activities as under:

Sr. No.	Remediation activity	Cost (INR)

1.	Plantation of trees and their maintenance along the national highway on at least 1 km of both sides of the project	Rs. 600,00/-
2.	Storm water management system of surrounding villages Bilga and Rajgarh	10,00,000/-
3.	Provision of battery-operated local transport facility (within and around 5 km of the complex)	15,00,000/-
4.	Provision of Organic Waste Converter for biodegradable Solid waste management in Village Sahnewal Khurd and Kanech	15,00,000/-

The Committee observed that the remediation plan proposed by the Project Proponent is generic in nature. Further, the Project Proponent has not submitted Natural and Community Resource Augmentation Plan. The Committee asked the Project Proponent to assess the damage as per the procedure prescribed by MoEF, GoI and submit the Remediation Plan and Natural & Community Resource Augmentation Plan w.r.t specific activities.

The Committee further observed that the Project Proponent has not submitted proposal for management of solid waste & hazardous waste to be generated from the project. The Committee asked the Project Proponent to submit the solid waste management layout plan by earmarking the land for installation of processing facility for treatment of dry & wet component of solid waste. The Project Proponent was asked to allocate the dedicated land area for carrying out Solid Waste Management within the project premises. The Project Proponent agreed to above and assured the Committee he shall submit the proper mechanism/proposal for management of solid and hazardous waste to be generated from the project.

The Committee further observed that Punjab Pollution Control Board while granting Consent to Establish to the promoter company imposed one condition that the promoter shall provide a minimum buffer of 15 meter of green belt of broad leaf trees towards M/s Singla Hot Mix Plan and M/s Bansal Spinning mils, which are located within 100 meters from the boundary of the proposed project. The species/ varieties of trees shall be decided in the consultation with forest department. In this regard, the Project Proponent apprised the Committee that the aforementioned industrial units are not in operation and are closed presently. Further, the promoter is exempted from the applicability of the said condition. The Committee asked the Project Proponent to submit the documentary evidence in this regard. The Project Proponent agreed to the same.

After detailed deliberation, SEAC decided to defer the case till the compliance of below mentioned observations.

1. The project proponent shall submit the revised calculation for estimating population for the project by considering 15 persons per residential plot and shall submit the basis for estimating the population for Group Housing-I & II @300 persons/acre, for EWS @400 persons/acre and for commercial & public @100 persons/acre.
2. The Project Proponent shall submit the revised permission for abstraction of ground water from the Competent Authority.

3. The Project Proponent shall submit the revised calculation pertaining to the disposal of treated wastewater in the green area available within the project.
4. The Project Proponent shall submit the alternate proposal for utilization of excess treated wastewater.
5. The Project Proponent shall assess the damage as per the procedure prescribed by MoEF, GoI and submit the Remediation Plan and Natural & Community Resource Augmentation Plan for carrying out specific activities along with timelines.
6. The Project Proponent shall submit the proper mechanism/proposal for management of solid and hazardous waste to be generated from the project.
7. The Project Proponent shall submit the solid waste management layout plan by earmarking the land for installation of processing facility for treatment of dry & wet component of solid waste. The Project Proponent shall allocate the dedicated land area for carrying out Solid Waste Management within the project premises.
8. The Project Proponent shall submit the documentary evidence for exemption of the condition for leaving 15m of green belt mentioned in the Consent to Establish granted by the Punjab Pollution Control Board.
9. The Project Proponent shall submit the details of Rain Water Harvesting & Proposal for conserving and utilizing Solar Energy within the project.

Deliberations during 225th meeting of SEAC held on 25.07.2022.

The meeting was attended by the following:

(i) Sh. Deepak Ratra, General Manager, M/s Malhotra Land Developers & Colonizers Private Limited.
(ii) Sh. Sital Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.
(iii) Sh. Sandeep Singh, Environmental Consultant, M/s. Chandigarh Pollution Testing Laboratory.

The Project Proponent submitted the reply of the observations raised by SEAC through Parivesh Portal vide letter dated 11.07.22 and presented as under:

Sr. No.	Observation	Reply
1.	The project proponent shall submit the revised calculation for estimating population for the project by considering 15 persons per residential plot and shall submit the basis for estimating the population for Group Housing-I & II @300 persons/acre, for EWS @400 persons/acre and for commercial & public @100 persons/acre.	Revised Calculation for estimating population for the project by considering 15 persons per residential plot and for Group Housing-I & II @323persons/acre, for EWS @435 persons/acre and for commercial & public @100 persons/acre submitted.
2.	The Project Proponent shall submit the revised permission for abstraction of ground water from the Competent Authority.	Acknowledgment of the Revised application submitted to PWRDA for groundwater abstraction submitted.

3.	The Project Proponent shall submit the revised calculation pertaining to the disposal of treated wastewater in the green area available within the project.	The total water requirement of the Project shall be 1996 KLD, out of which 1418 KLD shall be met through fresh water and 578 KLD shall be met through flushing water requirement. The total waste water generation shall be 1597 KLD which shall be treated in STP of capacity 2000 KLD. In summer season, the treated waste water generation shall be 1437 KLD, out of which 578 KLD shall be utilized for flushing purpose, 252 KLD shall be utilized for horticulture purpose and 587 KLD shall be utilized in the irrigation of 28 acres of land and 8 acres of land to be developed as per the Karnal Technology. In winter season, the treated waste water generation shall be 1437 KLD, out of which 578 KLD shall be utilized for flushing purpose, 83 KLD shall be utilized for horticulture purpose and 776 KLD shall be utilized in the irrigation of 28 acres of land and 8 acres of land to be developed as per the Karnal Technology. In rainy season, the treated waste water generation shall be 1437 KLD, out of which 578 KLD shall be utilized for flushing purpose, 23 KLD shall be utilized for horticulture purpose and 836 KLD shall be utilized in the irrigation of 28 acres of land and 8 acres of land to be developed as per the Karnal Technology.
4.	The Project Proponent shall submit the alternate proposal for utilization of excess treated wastewater.	Excess treated waste water generated will be used for irrigation of crops in the agricultural land of 12 acres and owned by M/s Punnu Land Developers Private Limited and agricultural land of 16 acres owned by Rajdeep Singh, Simarjeet Singh, Gurpal Singh and Manjit Singh

		adjoining the residential Project "Palm Garden". Undertaking of farmers along with Jamabandi of their land submitted.
5.	The Project Proponent shall assess the damage as per the procedure prescribed by MoEF, GoI and submit the Remediation Plan and Natural & Community Resource Augmentation Plan for carrying out specific activities along with timelines.	Damage assessment plan, Augmentation plan submitted**.** Authenticate Augmentation plan submitted
6.	The Project Proponent shall submit the proper mechanism/proposal for management of solid and hazardous waste to be generated from the project.	1. Bio-degradable waste will be treated in 2 Mechanical composters of 3Ton/day capacity each and will be used as compost. 2. Further, other waste will be segregated at the source in coloured bins and will be disposed off to Municipal recovery sites. 3. Hazardous waste in the form of used engine oil generated from DG sets @100lt./yr will be given to authorized recyclers. It will be stored in drums placed in enclosed room near the DG set. Solid waste generation detail submitted
7.	The Project Proponent shall submit the solid waste management layout plan by earmarking the land for installation of processing facility for treatment of dry & wet component of solid waste. The Project Proponent shall allocate the dedicated land area for carrying out Solid Waste Management within the project premises.	Layout Plan showing location of Solid waste storage and treatment submitted.
8.	The Project Proponent shall submit the documentary evidence for exemption of the condition for leaving 15m of green belt mentioned in the Consent to Establish granted by the Punjab Pollution Control Board.	Request for obtaining clarification regarding exemption of condition for leaving 15m green belt submitted to Punjab Pollution Control Board. No response has been received so far.
9.	The Project Proponent shall submit the details of Rain Water Harvesting & Proposal for conserving and utilizing Solar Energy within the project.	In addition to the already proposed LED lights and solar lights in the common area, the company will also provide solar panels on rooftops of utility buildings as far as possible. An undertaking to this regard submitted**.** Rain water harvesting system consisting of 40 recharging pits already propose is resubmitted.

The Committee perused the reply submitted by the Project Proponent and observed as under:

(i) The Project Proponent has not submitted any basis for estimating the population For Group Housing I & II @ 323 persons/acre, for EWS @ 435 persons/acre and for commercial & public @ 100 persons/acre.

(ii) Lot of calculation mistakes have been observed in estimating the population, water & flushing requirement, water balance diagrams for summer, winter & rainy season and water requirement for green area. The same was conveyed to the Project Proponent during the presentation. The Project Proponent agreed to submit the revised calculations.

(iii) The 10% losses considered by the Project Proponent in waste water generation & treatment also needs to be checked & revised.

(iv) The Project Proponent has not submitted any documentary evidence for exemption of the condition for leaving 15 m of green belt as mentioned in the Consent to Establish granted by the Punjab Pollution Control Board.

(v) The Project Proponent has not submitted any agreement with MC for the disposal of the non-recyclable fraction of dry waste.

(vi) The Project Proponent was asked to submit the alternate proposal for utilization of excess treated waste water in the absence of MC sewer.

The Project Proponent has proposed to utilize the excess treated wastewater for irrigation of crops in the agricultural land area of 12 acres owned by M/s Punnu Land Developers Private Limited and agricultural land area of 16 acres owned by farmers.

The Committee apprised the Project Proponent that the 13th meeting of Joint Committee of SEIAA & SEAC was held on 25.04.2022 wherein it was decided as under:

> *"In case of the absence of MC sewer, no case shall be granted Environmental Clearance in which the project proponent proposes to develop plantation as per 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 the 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 asked the Project Proponent to submit the alternative proposal in view of the above said decision taken in the joint meeting of SEIAA & SEAC.

(vii) The Damage Assessment Plan and Augmentation Plan submitted by the Project Proponent was not found to be appropriate. The Project Proponent was asked to submit the Damage Assessment

Plan, Remediation Plan and Natural & Community Resource Augmentation Plan for carrying out specific activities along with timelines, in consultation with some expert in the field.

(viii) The Project Proponent has not submitted adequate proposal for allocating funds under CER activities. The Committee asked the Project Proponent to allocate funds up to 1% of the total project cost under CER activities.

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

(i) The Project Proponent shall submit the basis for estimating the population For Group Housing I & II @ 323 persons/acre, for EWS @ 435 persons/acre and for commercial & public @ 100 persons/acre.

(ii) The Project Proponent shall submit the revised calculation for estimating the population, water & flushing requirement, water balance diagrams for summer, winter & rainy season and water requirement for green area.

(iii) The Project Proponent shall check the 10% losses considered in waste water generation & treatment and submit the revised calculation.

(iv) The Project Proponent shall submit the documentary evidence for exemption of the condition for leaving 15 m of green belt, as mentioned in the Consent to Establish granted by PPCB.

(v) The Project Proponent shall submit agreement with MC for the disposal of the non-recyclable fraction of dry waste.

(vi) The Project Proponent, in view of following decision taken in the 13th meeting of Joint Committee of SEIAA & SEAC held on 25.04.2022, shall submit alternate proposal for utilization of excess treated waste water in the absence of MC sewer.

> *"In case of the absence of MC sewer, no case shall be granted Environmental Clearance in which the project proponent proposes to develop plantation as per 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 the 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."*

(vii) The Project Proponent shall submit the revised Damage Assessment Plan, Remediation Plan and Natural & Community Resource Augmentation Plan for carrying out specific activities along with timelines, in consultation with some expert in the field.

(viii) The Project Proponent shall allocate funds up to 1% of the total project cost under CER activities and submit the details of the same.

Item no. 225.02: Application for amendment in Environmental Clearance under the EIA notification dated 14.09.2006 for commercial project namely "London Street" at Bahadurgarh, Patiala, Punjab M/s Metro Developers & Builders (Proposal No. SIA/PB/MIS/283339/2022).

The Project proponent was granted Environmental Clearance vide letter no. SEIAA/PB/MIS/2021/EC/15 dated 14.12.2021 for commercial project namely "London Street" at Bahadurgarh, Patiala, Punjab in the total land area of 16026.12 sqm having built-up area of 38,396 sqm.

The Project Proponent has submitted an application for amendment in environmental clearance for commercial project at Bahadurgarh, Patiala in a land area of 16026.12 sqm having built up area of 43105 sqm. The project is covered under category 8(a) and activity B2 as per the EIA notification dated 14.09.2006.

The project proponent submitted the Form-4 and other additional documents along with processing fee amounting to Rs. 9478/- through UTR no. N1942220368484430 on 13.07.2022, as verified by the supporting staff SEIAA. The project proponent has informed that the excavation work has been started at the project site.

The Project Proponent has submitted layout plan approved by Chief Town Planner; Punjab vide no. 2234-CTP (PB) CC-13 dated 16.05.2022. A perusal of the earlier layout plan and approved layout plan indicated that there is an overall increase in the built-up area of the project, the details are as under:

Sr. No.	Description	Existing	Proposed	Remarks
1.	FAR area	31819.317 sqm	28363.106 sqm	Decreased by 3456.2 sqm
2.	Non-FAR area	6576.3 sqm	14742.335 sqm	Increased by 8166 sqm
	Total Built up area in sqm	38395.6 sqm	43105.4 sqm	Overall increase by 4709 sqm

Deliberations during 225th meeting of SEAC held on 25.07.2022.

The meeting was attended by the following:

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

The Committee observed that there is an overall increase in the built-up area by 4709 sqm due to increase in the Non-FAR area. However, no other environmental parameters have been changed due to the increase in the Non-FAR area.

After deliberations, SEAC decided to forward the case to SEIAA with the recommendation for amendment in Environmental Clearance granted vide letter no. SEIAA/PB/MIS/2021/EC/15 dated 14.12.2021.

Item No. 225.03: Application for Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of residential Project namely "CGEWHO Residential Project" at Plot no. 3, Sector 79, SAS Nagar, Punjab by M/s Central Government Employees Welfare Housing Organization (Proposal No. SIA/PB/MIS/122453/2019).

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

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

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

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

1. *"The site was visited by officer of the Board on 7/7/2022 and it was observed as under:*
2. *No demarcation of the site has been done. As per the site shown by the representative the site is located in front of Police Station Sohana, sector 79, Mohali and adjoining to it is Sh. Guru Singh Sabha Gurdwara Sahib, sector 79, Mohali. The site is surrounded by residential flats of sector 79 from 2 side.*
3. *No site development work has been started at the site.*
4. *No bore well has been done at the site.*
5. *No MAH industry/cement plant/ grinding unit/ rice sheller/ saila plant/ stone crushing/screening cum washing unit/ hot mix plant/ brick kiln within a radius of 500 m from the boundary of the proposed site of the project. No Air polluting industry is located within 100 mtr of the proposed site. Therefore, the site of the project is conforming to the sitting guidelines laid down by the Government of Punjab, Department of Science Technology and Environment vide order dated 25/7/2008 as amended on 30/10/2009.*
6. *As per Master plan of SAS Nagar, the classification of the area is Residential.*
7. *GMADA has laid sewer network in the area."*

Deliberations during 225th meeting of SEAC held on 25.07.2022.

The meeting was attended by the following:

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

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

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

<table>
<tr><td></td><td>of Punjab Land Preservation Act (PLPA) 1900.</td><td></td></tr>
<tr><td>3.3</td><td>Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:</td><td>A copy of letter issued by Deputy Conservator of Forest, Chandigarh Administration vide letter No. FOR/2022/3334 dated 05.01.2022 wherein it has been mentioned that the distance of the project is at approximately 13.09 Km from the Sukhna Wildlife Sanctuary and 8.14 Km from City Bird Sanctuary.</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 = 6,336.788 sqm
No. of trees proposed = 380 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>22,824.27</td></tr>
<tr><td>2.</td><td>Permissible FAR @ 2.5% of Plot area</td><td>57,060.675</td></tr>
<tr><td>3.</td><td>Proposed FAR @ 2.482 of Plot area</td><td>56,653.749</td></tr>
<tr><td>4.</td><td>Non-FAR</td><td>28,748.776</td></tr>
<tr><td>5.</td><td>Built up area (Non-FAR + FAR)</td><td>85,402.525</td></tr>
</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>PPU</th><th>Total Population</th></tr>
<tr><td>1.</td><td>Residential</td><td>5</td><td>402</td><td>5</td><td>2010</td></tr>
<tr><td>2.</td><td>Maintenance Staff</td><td colspan="3">5% of residential population</td><td>101</td></tr>
<tr><td>3.</td><td>Visitors</td><td colspan="3">10 % of residential population</td><td>201</td></tr>
<tr><td rowspan="2">4.</td><td rowspan="2">Club Commercial</td><td>418.331
(Ground Floor)</td><td colspan="2">3 Sq.m/ person</td><td>139</td></tr>
<tr><td>1189.671</td><td colspan="2">6 Sq.m/ person</td><td>198</td></tr>
</table>
</td></tr>
</table>

			(1st + 2nd + 3rd Floor)		
	Total				**337**
		➢ Staff ➢ Visitors	@10% of the Commercial population @90% of the Commercial population		34 303
	Total Population =				**2649**

5 Water

5.1 Total water demand w.r.t Population:

S. No.	Description	No. of DUs/Area (m^2)	Occupancy	Rate of water demand (lpcd)		Total Water Requirement (KLD)		
A.	**Domestic Water**			**Fresh**	**Flushing**	**Fresh**	**Flushing**	**Total**
	• Residents		2010	65	21	131	42	**173**
	• Staff		135	25	20	4	3	**7**
	• Visitors		504	5	10	3	5	**8**
						138 KLD	**50 KLD**	**188 KLD**
	Total Domestic Water = 188 KLD							
B.	**Horticulture**	6336.788 m^2		5.5 l/sqm		**35 KLD**		
C.	**Swimming Pool**					**2 KLD**		
	Grand Total (A+B+C) = 225 KLD							

5.2	Total fresh water requirement:	138 KLD
5.3	Source:	The fresh water demand will be met from DWSS GMADA Punjab (Department of Water Supply & Sanitation).
5.4	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) *Details thereof*	Application for obtaining permission of fresh water supply from Greater Mohali Development Authority has been submitted and it is under process.

<table>
<tr><td>5.4</td><td>Total wastewater generation:</td><td>160 KLD</td></tr>
<tr><td>5.5</td><td>Treatment methodology:
(STP capacity, technology)</td><td>STP capacity: 200 KLD STP of Central Government Employees Welfare Housing Organization.
Technology: MBBR Technology
Treated waste water: 144 KLD</td></tr>
<tr><td>5.6</td><td>Treated wastewater for flushing purpose:</td><td>50 KLD</td></tr>
<tr><td>5.7</td><td>Treated wastewater for green area in summer, winter and rainy season:</td><td>Summer season: 35KLD
Winter season: 12 KLD
Rainy season: 3 KLD</td></tr>
<tr><td>5.8</td><td>Utilization/Disposal of excess treated wastewater.</td><td>Summer season: 59KLD
Winter season: 82 KLD
Rainy season: 91 KLD
The excess treated wastewater shall be utilized for plantation out side the project site and nearby construction site.</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></tr>
<tr><td>1.</td><td>188 KLD</td><td>160 KLD</td><td>144 KLD</td><td>50 KLD</td><td>35 KLD</td></tr>
</table>
* The excess treated wastewater shall be utilized for plantation outside the project site and nearby construction site.</td></tr>
<tr><td>5.10</td><td>Rain water harvesting proposal:</td><td>• Volume of a single Recharge pit = π r2h = 3.14 × 2.25 × 2.25 × 4 = 63.6 m3
• No. of pits required for roof top area = 1 pits.
• No. of pits required for Green area = 1 pit.
• No. of pits required for paved area = 1 pits
Total 3 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 1750 KVA (1x750 KVA + 2x500 KVA) shall be installed for power backup. The said DG sets shall be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>
<table>
<tr><th>Anticipated Impact</th><th>Mitigation Measures</th></tr>
<tr><td><u>Construction Phase</u>:
1. Dust emission from transportation of construction material.</td><td>1. Site will be enclosed with 5 m high barricade around the project boundary which will act as a wind breaker.
2. Water sprinkling will be carried out for dust suppression.</td></tr>
</table>
</td></tr>
</table>

		2. Gaseous emissions from construction machinery. 3. Dust from construction activities. 4. Emission from DG sets.	3. All the machinery deployed at site are of highest standard and of reputed make and comply with the emission standards 4. Low sulphur diesel will be used for DG sets, vehicles and construction machinery. 5. Vehicles having valid pollution under control (PUC) certificate will be allowed to entre the project site. 6. The trucks carrying construction materials and debris will be suitably covered by tarpaulin/plastic sheets 7. Speed of the vehicles will be restricted to 20 kmph by erecting speed bumps and signages at regular intervals within project site.
		Anticipated Impact	**Mitigation Measures**
		Operation Phase: 1. Vehicular movement 2. DG sets operation	1. Tree plantation to attenuate particulate matter. 2. Low sulphur diesel (ULSD) will be used for DG sets. 3. Stack height will be provided as per CPCB norms. 4. Ensure smooth traffic circulation and restriction on vehicular speed within the premises.
7	**Waste Management**		
7.1	Total quantity of solid waste generation	1,023 kg/day	
7.2	Details of management and disposal of solid waste (Mechanical Composter/Compost pits)	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. 2. STP sludge is proposed to be used in horticulture. 3. Horticultural Waste is proposed to be composted and used for gardening.	

<table>
<tr><td></td><td></td><td><u>Recyclable waste</u>
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.
<u>Disposal</u>
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>Not submitted any details.</td></tr>
<tr><td>8</td><td colspan="2">Energy Saving & EMP</td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td>1,700 kVA</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td>3 no. of DG sets of total capacity 1,750 kVA (1x750 + 2x500)

<table>
<tr><th>S. 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>180</td></tr>
<tr><td>2.</td><td>LEDs for internal lighting</td><td>245</td></tr>
<tr><td colspan="2">Total Energy Saved</td><td>425</td></tr>
<tr><td colspan="3">Total energy consumption = 1,700 kVA
Energy saved through various provisions = 425 kVA
TOTAL ENERGY SAVING = 25 %</td></tr>
</table></td></tr>
<tr><td>8.3</td><td>Details of activities under Environment Management Plan:</td><td>During construction phase Project Manager will be responsible and during operation phase, Project Manager 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>20</td><td>5</td></tr>
<tr><td>Rain Water Harvesting System</td><td>4.5</td><td>1.1</td></tr>
<tr><td>Solid Waste Management</td><td>2.0</td><td>0.5</td></tr>
</table></td></tr>
</table>

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

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

(i) The calculation for estimating the population viz-e-viz water consumption needs to be revised by considering 5 persons per dwelling unit

(ii) The Committee observed that the Project Proponent has neither provided dedicated space for solid waste management and nor provided any agreement for disposal of non-recyclable fraction of dry waste.

(iii) During meeting, the Project Proponent apprised the Committee that the excess treated wastewater being generated from the project shall be utilized for plantation to be developed outside the premises of the project and to the nearby construction site. The Committee apprised the Project Proponent that PPCB vide letter No. 4406 dated 18.07.2022 reported that GMADA has late sewer network in the area. The Committee did not accept the proposal of the Project Proponent and asked the Project Proponent to obtain sewer connection from GMADA for discharging the excess treated wastewater being generated from the project.

(iv) The Committee further observed that the Project Proponent has not proposed any activity under CER and did not allocate any funds under the same. The Committee as such asked the Project Proponent to allocate up to 1% of the total project cost under CER activities. The Project Proponent requested the Committee that the proposed residential project is for the Central Govt. Employees Welfare Housing Organization which is a No profit-No loss organization. Therefore, it is not possible for the organization to allocate 1% of the project cost for CER activities. However, the Project Proponent proposes to allocate 0.6% of the total project cost under CER activities. The Committee accepted the proposal of the Project Proponent and asked him to undertake any of the following activities under CER:

a) In situ Crop residue Management for control of stubble burning
b) Rejuvenation of Village Pond
c) Development of Infrastructure for utilization of treated effluent of STP.
d) Development of Mini Forests (Nanak Bagichi) in the District
e) Alternative to single use plastic.

(v) The Project Proponent shall submit the details for the management of Hazardous Waste

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

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

(i) The Project Proponent shall submit revised calculation for estimating the population viz-e-viz water consumption by considering 5 persons per dwelling unit.

(ii) The Project Proponent shall provide dedicated space for solid waste management and provide agreement for disposal of non-recyclable fraction of dry waste.

(iii) The Project Proponent shall submit the permission from the competent authority for discharging excess treated wastewater into sewer.

(iv) The Project Proponent shall submit the proposal to undertake CER activities by allocating 0.6% of the total project cost under CER activities.

(v) The Project Proponent shall submit the details for the management of Hazardous Waste

(vi) The Project Proponent shall submit the revised calculation for estimating the total energy saved as per the standards laid down by Bureau of Energy efficiency.

Item no. 225.04: Application for obtaining expansion in Environmental Clearance under the EIA notification dated 14.09.2006 for establishment of a Logistic Park located in revenue estate of Village Ali Majra, Tehsil - Rajpura, Ghanaur, District Patiala, Punjab by M/s Erisha Infratech Private Limited (Proposal No. SIA/PB/MIS/242639/2021).

The Project proponent was granted Environmental Clearance vide letter no. DECC/SEIAA/2019/838 dated 22.08.2019 for the establishment of Logistic Park in the total land area of 82,252 sqm having built-up area of 33,736 sqm located in the revenue estate of village Shambu Khurd, Tehsil Rajpura, District Patiala.

The Project Proponent was granted Consent to Operate under the provisions of Water Act 1974 and Air Act 1981 for the construction of warehouse located in the revenue estate of village Shambu Khurd, Tehsil Rajpura, District Patiala having built up area of 28023 sqm, which is valid up to 30.09.2022.

The Project Proponent has proposed to carryout expansion by acquiring additional land area of 18551.34 sqm falling in the revenue estate of village Ali Majra, Tehsil Rajpura, District Patiala. The Project Proponent has submitted an application for expansion in environmental clearance for establishment for a Logistic Park located in revenue estate of Village Ali Majra, Tehsil- Rajpura, Ghanaur, District Patiala, Punjab in a land area of 100803.34 sqm having built up area of 54763.15 sqm. The project is covered under category 8(a) and activity B2 as per the EIA notification dated 14.09.2006. The total cost of the project is Rs. 52.51 Crore.

The project proponent submitted the Form I, 1A and other additional documents along with processing fee amounting to Rs. 240,000/- on 30.11.2021, (fee transaction receipt submitted) as verified by the supporting staff SEIAA.

The Project Proponent has submitted certified compliance report of the conditions imposed in the earlier Environment Clearance granted to him by Regional Office of MoEF&CC vide letter no. 254-255-256-257 dated 25.04.2022.

Punjab Pollution Control Board vide letter no. 4437 dated 18.07.2022 has sent the latest construction status report with details as under:

"The site of the project was visited by the officer of the Board on 08.05.2022 to verify the facts and the point wise reply/comments of the Board, to the information sought is as under:

Sr. No.	***Point as desired by EE (SEIAA)***	***Comments***
1.	*Construction status of the proposal.*	*The Project Proponent has not started the any construction activities for expansion of the proposed project at the site.*

2.	*Status of physical structures within 500m radius of the site including the status of industries, if any*	*There is one no. feed manufacturing unit, railway track adjoining the wall and agriculture area within the 500m radius from the site. There is no drain, river, and eco-sensitive structures within 500m radius from the site of expansion of the project.*
3.	*Whether the site meets with the prescribed criteria for setting up of such project.*	*There are no specific siting guidelines for such type of units as such general siting guidelines are applicable. No lal lakir, phirni, residential area was observed within 100m from the site. As per the STP letter memo no. 2632 dated 27.10.2021, "The site falls in mixed land use zone of statutory Master Plan, Rajpura, the unit is permissible in this land use zone" Therefore, site is suitable for the establishment of such type of units."*

Deliberations during 225th meeting of SEAC held on 25.07.2022.

The meeting was attended by the following:

(i) Sh. Yogesh Sharma, Project Head M/s Erisha Infratech Private Limited.
(ii) Sh. Vipul Khandelwal, Consultant M/s Gaurang Environmental Solution Private Limited.

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

Sr. No.	Description	Details
1.	Name & Location of the project	Proposed Expansion Logistic Park located at Village - Ali Majra, Tehsil - Rajpura, Ghanaur, District – Patiala, Punjab.
2.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	Category 8 (a)
3.	Copy of the Master plan duly marked with the project site	Permission for Change of Land Use for setting up of the warehouse project granted by Department of Town & Country Planning, Punjab. The details are in the following columns no. 6.
4.	Whether the proposal involves approval/clearance under the Forest (Conservation)Act,1980	A copy of NOC vide letter dated 01.09.2020 issued by DFO, Patiala for diversion of 0.0386 Ha. of Forest land has been issued for access road to warehouse godown, Village Shambu Khurd, GT Road, Tehsil Rajpura, District Patiala.

5.	If the project falls within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary. If yes, a. Name of eco-sensitive area/ National park/Wild Life Sanctuary and distance from the project site. b. Status of clearance from the National Board for Wild Life (NBWL)	No Wildlife area is involved within the 10 km radius of the project. Thus, Wildlife Clearance is not required. A self-declaration in this regard submitted.
6.	Classification/Land use pattern as per Master Plan	1. Permission for Change of Land Use for total land area of 14.8808 acres falling in village Shambu Khurd, Teshil Rajpura, District Patiala for warehouse has been granted by Senior Town Planner vide memo no. 2688-STP (P)/SP-327 dated 01.08.2018. 2. Permission for Change of Land Use for total land area of 9.91 acres falling in village Shambu Khurd & Ali Majra, Teshil Rajpura, District Patiala for extension of warehouse has been granted by Senior Town Planner vide memo no. 2632- STP (P)/SP-327 dated 27.10.2021.
7.	**Land area and built up area details:**	

Sr. No.	Description	Existing	Proposed	Total
1.	Total Scheme Area	82,252 sq. m	18,551.34 sq. m	10,0803.34 sq. m
2.	Total Built-up Area	33,736 sq.m	21027.15 sq. m.	54,763.15 sq. m.
3.	Expected Population	210	150	360
4.	Proposed Green Area	9383 sq.m	6532.14 sq.m	15915.14 sq.m

*The above said details are as per the conceptual plan of the warehouse submitted by the Project Proponent.

Built up are of the components:

Particulars	Built up area (sqm)		
Blocks	**Existing**	**Proposed**	**Total**
Existing shed (Standalone)	15689.93	NA	15689.93
Godown B (Existing Shed + Proposed Shed)	18046.07	1880.32	19926.39
Godown A	NA	15052.61	15052.61
Godown C	NA	4094.22	4094.22
Total	**33736 sqm**	**21027.15 sqm**	**54,763.15 sqm**

8. Breakup of Population given as under:

S. No.	Particulars	Existing	Proposed	Total
1.	Staff	200	160	360
2.	Visitors @ 10% of Total Population			36
Total (Staff + Visitors)				**396**

9. Details of water consumption:

Particulars	Summer Season	Winter season	Rainy Season
Fresh water	92 KLD	33 KLD	12 KLD
Recycled/Treated water	14 KLD	14 KLD	14 KLD
Total	**106 KLD**	**47 KLD**	**26 KLD**
Source	Fresh Water : Ground Treated Waste water : STP Treated Water		
STP	20 KLD		

10. Breakup of Water Requirements &source in Operation Phase (Summer, Rainy, Winter):

Sr. No.	Season	Total Water Consumption (KLD)	Fresh water consumption in landscaping in KLD	Wastewater generation (KLD)	Treated Waste water generation (KLD)	Reuse for (KLD)	
						Flushing	Green Area
1.	Summer	106 KLD	82 KLD	16 KLD	14 KLD	8 KLD	6 KLD
2.	Winter	47 KLD	23 KLD	16 KLD	14 KLD	8 KLD	6 KLD
3.	Rainy	26 KLD	2 KLD	16 KLD	14 KLD	8 KLD	6 KLD

S. No.	Description	Source of water
1.	Domestic	Ground Water
2.	Flushing purposes	Treated water from STP
3.	Green area	Treated water from STP

11.	Details of acknowledgement of application filed to CGWA /Competent Authority for obtaining permission for abstraction of ground water	Acknowledgment of the application seeking permission from PWRDA regarding abstraction of ground water @ 92 KLD submitted.
12.	Details of Rainwater recharging/ Harvesting (m3/hr) proposal & technology proposed to be adopted	Ground water recharging will be done by provisions of rain water recharging pits so as to compensate the abstraction of ground water. 13 rain water recharging pits shall be constructed out of which 5 number RWH had already been constructed at site.
13.	Details of Solid waste generation (Qty), treatment facility and its disposal arrangement	During Operation Phase, about 100 kg/day of solid waste shall be generated, which shall be comprising of solid waste fraction @ 0.25 kg/day for Staff, @ 0.15 kg/day for Visitors and @ 0.2 kg/acre/day for Landscape. Segregation of solid waste will be carried out by providing green, white and black bins. The segregated waste shall be handed over to the authorized waste picker.
14.	Details of Hazardous Waste & E- Waste generation (Qty), Treatment facility and its disposal arrangement	The spent oil generated from the DG sets shall be given to the registered recyclers.

15.	Detail of DG sets	<table><tr><th>S. No.</th><th>Existing</th><th>Proposed</th><th>Total</th></tr><tr><td>1.</td><td>82.5 KVA</td><td>82.5 KVA</td><td>82.5 KVA (2 Nos.)</td></tr><tr><td>2.</td><td>125 KVA</td><td>125 KVA</td><td>125 KVA (2 Nos.)</td></tr></table>
16.	Air pollution control device details	Adequate stack height of 15 m will be provided for the DG sets.
17.	Energy Requirements & Saving	Solar panel of 5 KW shall be installed in the project. The total common lighting load would be reduced by 20% by the use of LED fixtures. Solar geysers will be installed to meet 20% of the total hot water requirement.
18.	Details of Environmental Management Plan	

S. No.	Particulars	Capital Cost (in lacs)	Annual recurring cost (in lacs)
1.	Acoustic enclosures & stack attached to DG sets	25.00	2.5
2	STP	8.0	2.0
3	Rain water harvesting	24.0	2.5
4	Solid waste management	1.0	3.0
5	Pollution monitoring	-	1.0
6	Firefighting & emergency handling	30.00	5.0
7	Green Belt	30.0	5.0
8	Solar	40.0	4.0
9	Socio EMP	24.00	--
	TOTAL	**182 lac**	**25 lacs**

19.	Details of green belt development shall include following: a) No. of tree to be planted against the requisite norms. b) Percentage of the area to be developed.	a) Trees proposed = 2400 trees b) Total proposed green area measures 15,915.14 sq. m. (15.78%) of the total plot area which will be area under parks as well as area under green strips within the project.

During meeting, the Committee observed that the Project Proponent has not submitted adequate proposal for execution of the activities to be carried out under Corporate Environmental Responsibility (CER). The Committee asked the Project Proponent to submit the proposal by allocating the funds up to 1% of the total project cost under CER. In this regard, the Project Proponent apprised the Committee that the budget for CER has already been fixed for 24 lacs i.e. 1% of the total project cost. The Project Proponent proposed to undertake following activities under CER:

A. Education • Shaskiya Sr. Sec. School, Nogama , Punjab.				Rs. Lac
S. No	**Particulars**	**Nos.**	**Cost/Item Rs.**	**Amount**
1.	RWH (Rain water harvesting complete roof top)	2500 sq. ft.	300,000.00	3.00
2.	Solar panel (5 KW)	1	200,000.00	2.00
3.	Plantation will be done (With tree guard)	50	50,000.00	0.50
4.	Jute/ Cotton/ Mixed bags (2/student)	500 students x 2 bag/ student	100,000.00	1.0
5.	Furniture and sports kit			0.50
Total Amount:				**Rs. 7.0 Lac**
• **Shaskiya Prathmik School, Beepur, Punjab**				
1.	Renovation: - (Toilets boy and girls)	1	50,000/-	0.50
2.	School furniture 100 students	-	1,00,000/-	1.00
3.	Plantation (With iron tree guard)	50	50,000/-	0.50
4.	Jute/ Cotton/ Mixed bags (2/student)	200 students x 2 bag/ student		0.40
5.	Furniture and sports kit			0.50
Total Amount: Rs. Lac				**Rs. 2.9 Lac**
GRAND TOTAL				**Rs. 9.9 lacs**

B. Health Awareness	Rs. Lac
Organizing medical and health check-up camp in nearby villages (PHC) Centre (Total Camp. 3)	6.00
Total : Rs. Lac	**Rs. 6.00 Lac**
C. Development in the community area	**Rs. Lac**
Development Rain Water Harvesting & maintenance	6.00
Roadside plantation with tree guards (200 Trees) Nagama and Beepur villages area	2.10
Total: Rs. Lac	**Rs. 8.10 Lac**
Grand Total: A+B+C	**Rs. 24.00 Lac**

The Committee was satisfied with the presentation and reply given by the Project Proponent. After detailed deliberations, SEAC decided to award 'Silver Grading' to the project proposal and to forward the application of the project proponent to SEIAA with the recommendation to grant expansion of Environmental Clearance for establishment of a Logistic Park located in revenue estate of Village Ali Majra, Tehsil - Rajpura, Ghanaur, District Patiala, Punjab and as per the details mentioned in the application proposal & subsequent presentation /clarifications made by the project proponent and his consultant 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 water requirement for the project shall be 106 KLD, out of which 92 KLD shall be met through own tube well. Total freshwater use shall not exceed the proposed requirement as provided in the project details and other relevant details as under:

Sr. No.	Season	Total Water Consumption	Fresh water consumption	Wastewater generation	Treated Waste	Reuse for (KLD)

		(KLD)	in landscaping in KLD	(KLD)	water generation (KLD)		
						Flushing	Green Area
1.	Summer	106 KLD	82 KLD	16 KLD	14 KLD	8 KLD	6 KLD
2.	Winter	47 KLD	23 KLD	16 KLD	14 KLD	8 KLD	6 KLD
3.	Rainy	26 KLD	2 KLD	16 KLD	14 KLD	8 KLD	6 KLD

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

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

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

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

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

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

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

x) Installation of R.O. plants in the project will be discouraged in order to reduce water wastage in form of RO reject. However, in case the requirement of installing RO plant is unavoidable, the rejected stream from the RO shall be separated and shall be utilized by

storing the same within the particular component or in a common place in the project premises.

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

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

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

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

xiv) The CGWA provisions on rainwater harvesting should be followed. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of the plot area and a storage capacity of a minimum of one day of the total freshwater requirement shall be provided. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. As per the proposal submitted by the project proponent, 13 no. recharging pits will be provided for

groundwater recharging as per the CGWB norms. The groundwater shall not be withdrawn without approval from the Competent Authority.

xv) All recharge should be limited to shallow aquifers.

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

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

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

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

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

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

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

IV. Noise monitoring and prevention

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

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

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

V. Energy Conservation measures

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

ii) Outdoor and common area lighting shall be LED.

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

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

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

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

VI. Waste Management

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

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

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

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

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

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

vii) Use of environment-friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.

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

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

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

VII. Green Cover

i) No naturally growing tree should be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the

concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department.

ii) At least a single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. The project proponent shall ensure the planting of 2400 trees in the project area at the identified location, as the per proposal submitted, with plants of native species preferably having broad leaves. The size of the plant thus planted should not be less than 6 ft and each plant shall be protected with a fence and properly maintained. The project proponent shall make adequate provisions of funds to ensure maintenance of the plants for a further period of three years and thereafter, protected throughout the entire lifetime of the Project. The species with heavy foliage, broad leaves, and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. The plantation should be undertaken as per SEIAA guidelines.

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

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

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

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

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

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

VIII. Transport

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

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

   b) Traffic calming measures.

   c) Proper design of entry and exit points.

   d) Parking norms as per local regulations.

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

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

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

IX. Human health issues

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

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

iii) An emergency preparedness plan based on the Hazard Identification and Risk Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe

drinking water, and medical health care, creche, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

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

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

X. Environment Management Plan

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

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

iii) An action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority. The Environmental Management Plan (EMP) & CER of the proposed project as per the details given in Table below:

S. No.	Particulars	Capital Cost (in lacs)	Annual recurring cost (in lacs)
1	Acoustic enclosures & stack attached to DG sets	25.00	2.5
2	STP	8.0	2.0
3	Rain water harvesting	24.0	2.5
4	Solid waste management	1.0	3.0
5	Pollution monitoring	-	1.0
6	Firefighting & emergency handling	30.00	5.0
7	Green Belt	30.0	5.0
8	Solar	40.0	4.0
9	Socio EMP	24.00	--
	TOTAL	**182 lac**	**25 lacs**

CER:

D. Education • **Shaskiya Sr. Sec. School, Nogama , Punjab.**	**Rs. Lac**

S. No	Particulars	Nos.	Cost/Item Rs.	Amount
6.	RWH (Rain water harvesting complete roof top)	2500 sq. ft.	300,000.00	3.00
7.	Solar panel (5 KW)	1	200,000.00	2.00
8.	Plantation will be done (With tree guard)	50	50,000.00	0.50
9.	Jute/ Cotton/ Mixed bags (2/student)	500 students x 2 bag/ student	100,000.00	1.0
10.	Furniture and sports kit			0.50
Total Amount:				**Rs. 7.0 Lac**
• **Shaskiya Prathmik School, Beepur, Punjab**				
6.	Renovation: - (Toilets boy and girls)	1	50,000/-	0.50
7.	School furniture 100 students	-	1,00,000/-	1.00
8.	Plantation (With iron tree guard)	50	50,000/-	0.50
9.	Jute/ Cotton/ Mixed bags (2/student)	200 students x 2 bag/ student		0.40
10.	Furniture and sports kit			0.50
Total Amount: Rs. Lac				**Rs. 2.9 Lac**
GRAND TOTAL				**Rs. 9.9 lacs**
E. Health Awareness				**Rs. Lac**
Organizing medical and health check-up camp in nearby villages (PHC) Centre (Total Camp. 3)				6.00
Total : Rs. Lac				**Rs. 6.00 Lac**
F. Development in the community area				**Rs. Lac**
Development Rain Water Harvesting & maintenance				6.00
Roadside plantation with tree guards (200 Trees) Nagama and Beepur villages area				2.10
Total: Rs. Lac				**Rs. 8.10 Lac**
Grand Total: A+B+C				**Rs. 24.00 Lac**

XI. Validity

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

XII. Miscellaneous

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

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

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

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

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

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

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

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

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

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

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

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

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

XIII. Additional Conditions

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

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

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

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

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

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

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

viii) 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.

ix) The Ministry reserves the right to stipulate additional conditions if found necessary. The 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.225.05: Application for Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of Commercial Project namely "LIC Complex" at Sector 49, SAS Nagar, Punjab by M/s Life Insurance Corporation of India (Proposal No. SIA/PB/MIS/105312/2019).

Life Insurance Corporation of India (LIC) has proposed to construct commercial project "LIC Complex" at Sector 49, SAS Nagar, Punjab. LIC has submitted an application for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of Commercial Project namely "LIC Complex" at Sector 49, District SAS Nagar, Punjab, in the total land area of 38,849.52 sqm having built up area 1,04,716.38 sqm. The project is covered under Activity 8(a) & Category 'B2' as per EIA notification-2006.

LIC has submitted the Form I, 1A and other additional documents along with processing fee amounting to Rs. 2,09,433/- dated 30.06.2021, as verified by the supporting staff SEIAA.

LIC has submitted layout plan of the project approved from Assistant Town Planner, GMADA, SAS Nagar. As per the said layout plan the total land area of the project is 38849.52 sqm and the total built up area is 104716.38 sqm.

Punjab Pollution Control Board vide letter no. 3548 dated 20.06.2022 has sent the latest construction status report with details as under:

"……..Accordingly, the site was visited by officer of the Board on 31/05/2022 and it was observed as under:

1. *The boundary wall of the plot has been done using brick work. Wild growth of plants was observed inside the plot. The site is surrounded by residential houses of sector-49D Chandigarh at one side.*
2. *The project site is located in sector 49, Mohali.*
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 500 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. *As per master plan of SAS Nagar the site is located commercial zone.*
5. *In the project report the project proponent has accounted for usage of treated waste water for flushing purposes @ 70% of the total water consumption which is not correct and needs to be 33% i.e. 100 KLD. hence, mode of disposal submitted in the project report is inadequate. The project proponent has not proposed arrangement for inside management of wet solid waste generated from the project.*
6. *N-choe drain pass at a distance of 1km away from the project site.*
7. *The GMADA has laid down sewer in the adjoining sector-65, Mohali.*

It is pertinent to mention here that the proposed site is situated within the jurisdiction of M.C Mohali/ GMADA. However, the STP installed by GMADA authorities is adequate to cater the quantity of additional effluent of this project. The upgradation of exiting STP installed by GMADA authorites is yet to be made. Morever, the project proponent has not submitted the alternate proposal for mode of disposal."

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

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	**Project Name:** Commercial Project "LIC Complex" **Project Proponent:** M/S Life Insurance Corporation of India
1.2	Proposal:	SIA/PB/MIS/105312/2019
1.3	Location of Project:	Sector-49, SAS Nagar, Punjab
1.4	Details of Land area & Built up area:	Plot area = 38,849.52 sqm Built up area = 1,04,716.38 sqm
1.5	Category under EIA notification dated 14.09.2006	8 (a)
1.6	Cost of the project	INR 1011.67 Crores
2.	**Site Suitability Characteristics**	
2.1	Whether project is suitable as per the provisions of Master Plan:	Allotment letter has been issued by the GMADA for the establishment of Multiplex/Shopping Mall/Hotel/Restaurant/ Service apartments and activities subservient to commercial. The details are as under:
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	A copy of allotment letter of the land measuring 9.60 acre in Sector 49, SAS Nagar in the name of M/s Life Insurance Corporation of India has been issued by GMADA vide letter no. GMADA(Policy)/2008/8942 dated 21.04.2008 submitted.
3	**Forest, Wildlife and Green Area**	
3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	A copy of letter issued by Deputy Conservator of Forest, Chandigarh Administration vide letter No. FOR/2021/2168 dated 20.09.2021 wherein it has been mentioned that the distance of the project is at approximately 10.56 Km from the Sukhna Wildlife Sanctuary and 4.48 Km from City Bird Sanctuary. Further, the Project Proponent has also mentioned 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	No

<table>
<tr><td></td><td>Preservation Act (PLPA) 1900.</td><td></td></tr>
<tr><td>3.3</td><td>Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:</td><td>A copy of letter issued by Deputy Conservator of Forest, Chandigarh Administration vide letter No. FOR/2021/2168 dated 20.09.2021 wherein it has been mentioned that the distance of the project is at approximately 10.56 Km from the Sukhna Wildlife Sanctuary and 4.48 Km from City Bird Sanctuary.</td></tr>
<tr><td>3.4</td><td>Whether the project falls within the influence of Eco-Sensitive Zone or not.</td><td>Not applicable</td></tr>
<tr><td>3.5</td><td>Green area requirement and proposed No. of trees:</td><td>Green Area = 9,713 sqm
No. of trees proposed = 500 trees (1 tree/80 sqm of the plot area)</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>Particulars</th><th>Area in Sqm</th></tr>
<tr><td>1.</td><td>Total plot area</td><td>38849.52</td></tr>
<tr><td>2.</td><td>Proposed FAR (@1.41% of total Plot area)</td><td>54,843.32</td></tr>
<tr><td>3.</td><td>Non-FAR area</td><td>49,873.06</td></tr>
<tr><td>4.</td><td>Built up area (Non-FAR+FAR area)</td><td>104716.38</td></tr>
</table>
The above said details are as per the application proposal given by the Project Proponent.
</td></tr>
<tr><td>4.2</td><td colspan="2">Population details
<table>
<tr><th>Sr. No.</th><th>Description</th><th>Area (sqm)</th><th>PPU</th><th>Total Population</th></tr>
<tr><td>1.</td><td>Ground Floor (Shops)</td><td>8,403.21</td><td>3 Sqm/person</td><td>2801</td></tr>
<tr><td></td><td>• Staff</td><td colspan="2">(@10% of the Retail shop population)</td><td>280</td></tr>
<tr><td></td><td>• Visitors</td><td colspan="2">(@90% of the Retail shop population)</td><td>2521</td></tr>
<tr><td>2.</td><td>First Floor (Shops)</td><td>6,820.60</td><td>6 Sqm/person</td><td>1137</td></tr>
<tr><td></td><td>• Staff</td><td colspan="2">(@10% of the Retail shop population)</td><td>114</td></tr>
<tr><td></td><td>• Visitors</td><td colspan="2">(@90% of the Retail shop population)</td><td>1023</td></tr>
<tr><td>3.</td><td>Second Floor (Shops)</td><td>6,820.60</td><td>6 Sqm/person</td><td>1137</td></tr>
<tr><td></td><td>• Staff</td><td colspan="2">(@10% of the Retail shop population)</td><td>114</td></tr>
<tr><td></td><td>• Visitors</td><td colspan="2">(@90% of the Retail shop population)</td><td>1023</td></tr>
</table>
</td></tr>
</table>

	4.	**Third Floor** (Food Court)			**1100**
		• Visitors	**1,000 seats**	------	1,000
		• Staff	(10% of total population)		100
	5.	**Third Floor (**Auditorium)			**1342**
		• Visitors	**1,220 seats**	-------	1,220
		• Staff	10% of Visitors		122
	5.	**Fourth to Tenth Floor** (office)	**25,516.31**	10 m^2/person	**2552**
		• Staff	(@90% of the Office staff population)		2297
		• Visitors	(@10% of the Office staff population)		255
	GRAND TOTAL POPULATION				**10,069**
5	**Water**				
5.1	Total water demand w.r.t Population				

S. No.	**Description**	**Total occupancy**	**Rate of water demand (lpcd)**	**Total water requirement (KLD)**
A.	**Domestic Water**			
1.	**Ground Floor to second floor (Shops)**	**5075**		**92**
	• Staff	508	45	23
	• Visitors	4567	15	69
2.	**Third Floor** (Food Court)	**1100**		**75**
	• Visitors	1000	70	70
	• Staff	100	45	5
3.	**Third Floor (**Auditorium)	**1342**		**25**
	• Visitors	1220	15	19
	• Staff	122	45	6
4.	**Fourth to Tenth** Floor(office)	**2552**		**108**
	• Staff	2297	45	104
	• Visitors	255	15	4
Total Domestic water requirement				**300 KLD**

5.1	Total fresh water requirement:	90 KLD

<table>
<tr><td>5.2</td><td>Source:</td><td>GMADA</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>Application for obtaining permission for fresh water supply has been submitted.</td></tr>
<tr><td>5.4</td><td>Total wastewater generation:</td><td>240 KLD</td></tr>
<tr><td>5.5</td><td>Treatment methodology:
(STP capacity, technology)</td><td>STP capacity: 300 KLD
Technology: MBBR Technology
Treated wastewater generation: 216 KLD</td></tr>
<tr><td>5.6</td><td>Treated wastewater for flushing purpose:</td><td>210 KLD.</td></tr>
<tr><td>5.7</td><td>Treated wastewater for green area in summer, winter and rainy season:</td><td>Summer season: 06 KLD
Winter season: 06 KLD
Rainy season: 05 KLD</td></tr>
<tr><td>5.8</td><td>Utilization/Disposal of excess treated wastewater.</td><td>1. The Project Proponent has proposed to utilize the treated waste water to be received through private tanker for the total quantity of 287 KLD in summer season, 251 KLD in winter season and 239 KLD in rainy season.

2. Out of 287 KLD of treated wastewater to be received through private tanker, 240 KLD shall be utilized for HVAC cooling & 47 KLD shall be utilized for horticulture purpose whereas, in winter season out of 251 KLD of treated wastewater, 240 KLD shall be utilized for HVAC cooling and 11 KLD shall be utilized for horticulture purpose and in rainy season the entire quantity of 239 KLD of treated wastewater shall be utilized for HVAC cooling and 1 KLD shall be met through treated waste water generated from the project.</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>300 KLD</td><td>240 KLD</td><td>216 KLD</td><td>210 KLD</td><td>06 KLD against 53 KLD</td><td>Nil</td></tr>
</table></td></tr>
<tr><td>5.10</td><td>Rain water harvesting proposal:</td><td>• Volume of a single Recharge pit = $\pi r^2 h$ =3.14 x 1.5 x 1.5 x 4 = 28.26 m^3</td></tr>
</table>

<table>
<tr><td></td><td></td><td>

No. of pits required for roof top area = 10 pits.
No. of pits required for Green area = 1 pit.
No. of pits required for paved area = 6 pits
No. of pits required for Roof-top Area= 3 pits

Total 10 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>The DG sets (4x2000 KVA + 1x1000 KVA)= 9000 KVA shall be installed as power backup.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>
<table>
<tr><th>Anticipated Impact</th><th>Mitigation Measures</th></tr>
<tr><td><u>Construction Phase</u>:
1. Dust emission from transportation of construction material.
2. Gaseous emissions from construction machinery.
3. Dust from construction activities.
4. Emission from DG sets.</td><td>1. Site will be enclosed with 5 m high barricade around the project boundary which will act as a wind breaker.
2. Water sprinkling will be carried out for dust suppression.
3. All the machinery deployed at site are of highest standard and of reputed make and comply with the emission standards
4. Low sulphur diesel will be used for DG sets, vehicles and construction machinery.
5. Vehicles having valid pollution under control (PUC) certificate will be allowed to entre the project site.
6. The trucks carrying construction materials and debris will be suitably covered by tarpaulin/plastic sheets
7. Speed of the vehicles will be restricted to 20 kmph by erecting speed bumps and signages at regular intervals within project site.</td></tr>
</table>
<table>
<tr><th>Anticipated Impact</th><th>Mitigation Measures</th></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td><u>Operation Phase</u>:
1. Vehicular movement
2. DG sets operation</td><td>1. Tree plantation to attenuate particulate matter.
2. Low sulphur diesel (ULSD) will be used for DG sets.
3. Stack height will be provided as per CPCB norms.
4. Ensure smooth traffic circulation and restriction on vehicular speed within the premises.</td></tr>
<tr><td>7</td><td colspan="3">Waste Management</td></tr>
<tr><td>7.1</td><td>Total quantity of solid waste generation</td><td colspan="2">2,128 kg/day</td></tr>
<tr><td>7.2</td><td>Details of management and disposal of solid waste (Mechanical Composter/Compost pits)</td><td colspan="2">Solid wastes will be appropriately segregated (at source. by providing bins) into recyclable, Bio-degradable Components, and non-biodegradable.
<u>Bio-Degradable waste</u>
1. Bio-degradable waste will be subjected to composting through Organic Waste Converter and the compost will be used as manure.
2. STP sludge is proposed to be used in horticulture.
3. Horticultural Waste is proposed to be composted and used for gardening.

<u>Recyclable waste</u>
1. <u>Grass Recycling</u> – The cropped grass will be spread on green area. It will act as manure after decomposition.
2. Recyclable waste like paper, plastic, metal etc. will be disposed through local approved recyclers.
<u>Disposal</u>
Recyclable and 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 colspan="2">Not submitted any details</td></tr>
<tr><td>8</td><td colspan="3">Energy Saving & EMP</td></tr>
<tr><td>8.1</td><td>Power Consumption:</td><td colspan="2">10,700 kVA</td></tr>
<tr><td>8.2</td><td>Energy saving measures:</td><td colspan="2">4 no. of D.G sets of total capacity 8000 kVA (4 x 2000) and 1 no. of D.G sets of total capacity 1000 kVA (1 x 1000)
<table>
<tr><th>S. 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>1,060</td></tr>
</table></td></tr>
</table>

		2.	LEDs for internal lighting	**1,722**
		Total Energy Saved		**2,782**
		Total energy consumption = 10,700 kVA **Energy saved through various provisions = 2,782 kVA** **TOTAL ENERGY SAVING = 26 %**		

8.3 Details of activities under Environment Management Plan:

During construction phase Project Manager will be responsible and during operation phase, Project Manager will be responsible for implementation of the EMP.

COMPONENT	**CAPITAL COST (INR LAKH)**	**RECURRING COST (INR LAKH/YR)**
Sewage Treatment Plant	30	7.5
Rain Water Harvesting System	15	3.75
Solid Waste Management	4.5	1.06
Environmental Monitoring	--	9
Green Area/ Landscape Area	6	1.5
Others (Energy saving devices, miscellaneous)	10	2.5
CER/CSR		
Plantation in Village Kumbra, Kajheri, Jagatpura, Burail	230.5	--
Development of pond in Village Kumbra, Burail	170	--
Providing gymnasium equipment's in Park	141	--
TOTAL	**607**	**25.31**

1.0 Deliberations during 224th meeting of SEAC held on 11.07.2022.

The Project Proponent vide letter dated 10.07.2022 addressed to Member Secretary, SEAC informed that they are unable to attend the meeting due to some unavoidable circumstances and requested to consider their project in the next meeting of the Committee.

The Committee, while considering the request of the Project Proponent, decided to defer the case to next meeting of SEAC.

Deliberations during 225th meeting of SEAC held on 25.07.2022.

The meeting was attended by the following:

(i) Sh. Amardeep Singh, Assistant Executive Engineer M/s Life Insurance Corporation of India.
(ii) Mrs. Sadhna Singh, EIA Coordinator GRC India Private Limited.

During meeting, the Committee perused the presentation given by the Project Proponent and observed as under:

(i) The Project Proponent has not submitted any basis for estimating the population for food court @ 1000 seats & auditorium @1220 seats.
(ii) The Project Proponent has considered water demand @ 70 LPCD for food court which should be @ 35 LPCD as per statutory norms. The Project Proponent agreed to revise the calculations for water demand, flushing requirement & water balance diagrams.
(iii) As pointed out by PPCB vide letter No. 3548 dated 20.06.2022, the Project Proponent has accounted for usage of treated waste water for flushing purposes @ 70% of the total water consumption which is not correct and needs to be 33% i.e 100 KLD. The same needs to be checked by the Project Proponent.
(iv) The project proponent has not provided dedicated space for solid waste management, mechanical composters for management of wet waste & scheme for disposal of non-recyclable fraction for dry waste. The capital & recurring cost earmarked for solid waste management was also found to be on lower side and needs to be revised.
(v) The Project Proponent has not obtained permission for discharging excess treated wastewater into sewer. The Committee asked the Project Proponent to obtain the same.
(vi) The Committee asked the Project Proponent to provide specific proposal for carrying out CER activities to the tune of upto 1% of the total project cost to undertake any of the following activities:
    a) In situ Crop residue Management for control of stubble burning
    b) Rejuvenation of Village Pond
    c) Development of Infrastructure for utilization of treated effluent of STP.
    d) Development of Mini Forests (Nanak Bagichi) in the District

e) Alternative to single use plastic.

The Project Proponent requested the Committee that as the total cost of the project is Rs.1011.67 Crore and as per OM dated 01.05.2018 issued by MoEF&CC on the subject of CER, the fund allocation for the CER for the Projects with capital investment more than 1000 Crores is 0.5 %. Therefore, they may be allowed to allocate 0.5% of the total project cost for carrying out CER activities. The Committee agreed to the same.

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

(i) The Project Proponent shall submit the basis for estimating the population for food court @ 1000 seats & auditorium @1220 seats.

(ii) The Project Proponent shall submit the revised calculation by considering water demand @ 35 LPCD for food court viz-a-viz revise the calculations for flushing requirement & water balance diagrams.

(iii) The Project Proponent shall check the usage of treated waste water for flushing purposes @ 70% of the total water consumption as pointed out by PPCB.

(iv) The project proponent shall provide dedicated space for solid waste management, mechanical composters for management of wet waste & scheme for disposal of non-recyclable fraction for dry waste. The capital & recurring cost earmarked for solid waste management found to be on lower side also needs to be revised.

(v) The Project Proponent shall obtain permission for discharging excess treated wastewater into sewer.

(vi) The Project Proponent shall provide specific proposal for carrying out CER activities to the tune of 0.5% of the total project cost on any of the following activities:

a) In situ Crop residue Management for control of stubble burning
b) Rejuvenation of Village Pond
c) Development of Infrastructure for utilization of treated effluent of STP.
d) Development of Mini Forests (Nanak Bagichi) in the District
e) Alternative to single use plastic.

Item No. 225.06: Application for Environmental Clearance under EIA notification dated 14.09.2006 for the construction of Group Housing project at Village Kishanpura, Zirakpur, District SAS Nagar, Punjab by M/s Nandita Apartments and Land Developers Private Limited (Proposal No. SIA/PB/MIS/268615/2022).

The Project Proponent has submitted an application under EIA notification dated 14.09.2006 for the establishment of residential Group Housing project proposed at H.B. No. 54, Village Kishanpura, Zirakpur, District SAS Nagar, Punjab in the total land area of 6565.985 sqm having built up area 34,799.769 sqm. The Project is covered under category 8(a) of the schedule-1 appended with the per EIA notification dated 14.09.2006.

The project proponent submitted the Form I, 1A and other additional documents along with processing fee amounting to Rs. 69,599/- vide UTR No. AXIC221067477281 dated 16.04.2022, as verified by the supporting staff SEIAA.

Punjab Pollution Control Board vide letter no. 4459 dated 20.07.2022 has sent the latest construction status report with details as under:

"It is further intimated that the proposed site of the project was visited by officer of the Board on 18/7/2022. As per site shown by the representative of the project proponent, the point-wise status report is as under:

1. *The proposed site of the project is located within MC limits of MC Zirakpur. The project proponent has earmarked its site with existing boundary wall.*

2. *The project proponent has not started development works at site however, existing office building built up earlier (as observed physically) exist 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 further intimated that the capacity of the existing terminal STP of Zirakpur 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. However, the project proponent has not submitted the alternate proposal for mode of disposal of treated effluent."

Deliberations during 225th meeting of SEAC held on 25.07.2022.

The meeting was attended by the following:

(i) Sh. Lakshit Gupta, Director M/s Nandita Apartments and Land Developers Private Limited.
(ii) Mrs. Jyoti Rani, EC Coordinator M/s Eco Paryavaran Laboratories & Consultant Private Limited.

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

Sr. No.	Description	Details
1	**Basic Details**	
1.1	Name of Project & Project Proponent:	Residential Group Housing Project by M/s Nandita Apartments and Land Developers Private Limited
1.2	Proposal:	SIA/PB/MIS/268615/2022
1.3	Location of Project:	H.B. no. 54, Village Kishanpura, Zirakpur, Distt. SAS Nagar, Punjab
1.4	Details of Land area & Built up area:	Site area: 6565.985 sq.m. Built up area: 34,799.769 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 34,799.769 sq.m.
1.6	Cost of the project	Rs. 34 Crores
2.	**Site Suitability Characteristics**	
2.1	Whether project is suitable as per the provisions of Master Plan:	As per Master Plan of Zirakpur submitted, project site falls within the Existing built up area zone.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	No supporting document 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, the clearance is not required under the provisions of Forest Conservation Act 1980. A self-declaration in this regard submitted.
3.2	Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA), 1900.	No

3.3	Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:	Yes, City Bird Sanctuary is located at approx. 10.5 km; NW & Sukhna Wildlife Sanctuary at approx. 9.5 km; NE from the project location. Thus, NBWL clearance is required for eco-sensitive zone of Sukhna Wildlife sanctuary. A copy of acknowledgement of the application filed with NBWL submitted.
3.4	Green area requirement and proposed No. of trees:	Total green area: 1,647.951 sq.m. Proposed trees to be planted: 154 nos. (34799.76 sqm/225)

4. Configuration & Population

4.1 Proposal & Configuration

2 Residential Towers (comprising of 190 flats), Commercial Shopping (15 shops) and Community Centre

Area Statement

Description	Area (in sq.m.)
Total Plot area	6,733.271 sq.m. (1.66 acres)
Area under Road Widening	167.286
Net Plot Area	6,565.985
Proposed FAR (@ 2.99)	**19,690.785**
Basement Area	4,958.260
Non-FAR excluding basement area	**10,150.724**
Built-up Area	**34,799.769**
Proposed Green area (@ 25.098%)	1,647.951

Floor wise area Details:

S. No.	Ground Coverage/Floors	Tower-1	Tower-2	Community Centre	Commercial Shopping	Check Post	Total Area
1.	Ground Coverage	697.352	456.326	144.445	173.659	9.00	1480.782
2.	First Floor	654.126	428.671	144.445	173.659	-	1400.901
3.	Second Floor	654.126	428.671	-	173.659	-	1256.456
4.	Third Floor	654.126	428.671	-	-	-	1082.797
5.	Fourth Floor	654.126	428.671	-	-	-	1082.797
6.	Fifth Floor	654.126	428.671	-	-	-	1082.797
7.	Sixth Floor	654.126	428.671	-	-	-	1082.797
8.	Seventh Floor	654.126	428.671	-	-	-	1082.797
9.	Eighth Floor	654.126	428.671	-	-	-	1082.797
10.	Ninth Floor	654.126	428.671	-	-	-	1082.797

11.	Tenth Floor	654.126	428.671	-	-	-	1082.797
12.	Eleventh Floor	654.126	428.671	-	-	-	1082.797
13.	Twelfth Floor	654.126	428.671	-	-	-	1082.797
14.	Thirteen Floor	654.126	428.671	-	-	-	1082.797
15.	Fourteen Floor	654.126	428.671	-	-	-	1082.797
16.	Fifteen Floor	654.126	428.671	-	-	-	1082.797
17.	Sixteen Floor	618.943	428.671	-	-	-	1047.614
18.	Seventeen Floor	-	428.671	-	-	-	428.671
Total		**11,128.185**	**7,743.733**	**288.890**	**520.977**	**9.00**	**19,690.785**

*Besides above, Non-FAR area of ~10150.724 sqm & Basement area of 4958.260 sqm shall add upto the total built up area of **34,799.769 sqm.**

4.2 **Population details**

Description	**No. of flats/Nos**	**Criteria**	**Population**
Residential population	190 flats	5 persons per flat	950
Commercial Shop	15 shops	2 persons per shops	30
Visitors population	-	10% of residential population	95
1,075 persons			

5 Water

5.1 Water demand basis:

Description	**Population**	**Criteria**	**Total water requirement in KLD**
Residential population	950	135 lpcd	129
Commercial Shop	30	45 lpcd	2
Visitors population	95	15 lpcd	2
Total water requirement	**133 KLD**		

5.1	Total fresh water requirement:	88 KLD
5.2	Source:	1 Borewell

<table>
<tr><td>5.3</td><td>Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N)
Details thereof</td><td>Application has been filed to PWRDA for obtaining NOC for abstraction of ground water for total quantity of 88 KLD through proposed bore well. Acknowledgement along with complete application submitted.</td></tr>
<tr><td>5.4</td><td>Total wastewater generation:</td><td>107 KLD</td></tr>
<tr><td>5.5</td><td>Treatment methodology:
(STP capacity, technology & components)</td><td>107 KLD of sewage will be generated from the project which will be treated in proposed STP of 150 KLD capacity based on MBBR Technology.</td></tr>
<tr><td>5.6</td><td>Treated wastewater for flushing purpose:</td><td>45 KLD</td></tr>
<tr><td>5.7</td><td>Treated wastewater for green area in summer, winter and rainy season:</td><td>Summer: 9 KLD
Winter: 3 KLD
Monsoon: 1 KLD</td></tr>
<tr><td>5.8</td><td>Utilization/Disposal of excess treated wastewater.</td><td>Excess treated water will be disposed of in MC sewer.</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>Into sewer</th></tr>
<tr><td>1.</td><td>133 KLD</td><td>107 KLD</td><td>105 KLD</td><td>45 KLD</td><td>Summer: 9 KLD
Winter: 3 KLD
Monsoon: 1 KLD</td><td>Summer: 51 KLD
Winter: 57 KLD
Monsoon: 59 KLD</td></tr>
</table></td></tr>
<tr><td>5.10</td><td>Rain water harvesting proposal:</td><td>3 Rain water recharging pits have been 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>4 DG sets of capacity 250 KVA each capacity shall be installed.</td></tr>
<tr><td>6.2</td><td>Measures to be adopted to contain particulate emission/Air Pollution</td><td>DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.</td></tr>
<tr><td>7</td><td>Waste Management</td><td></td></tr>
<tr><td>7.1</td><td>Total quantity of solid waste generation</td><td>405 kg/day (950 Persons@ 4kg/capita/day and 125 Persons @ 2 kg/capita/day)</td></tr>
<tr><td>7.2</td><td>Whether Solid Waste Management layout plan by earmarking the location as well as area designated for installation of Mechanical Composter</td><td>Solid waste management area has been provided and marked in conceptual layout submitted along with the application. 1 Mechanical Composter of 200 kg will be installed within the project premises.</td></tr>
</table>

	and Material Recovery Facility submitted or not.	
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 2,000 KVA which will be provided by Punjab State Power Corporation Limited (PSPCL).
8.2	Energy saving measures:	The total area covered by solar panels will be 315 sq.m. which is 30% of terrace area i.e. 1,047.614 sq.m. which will generate 25 KW of power generation.

8.3 Details of activities under Environment Management Plan:

<u>During Construction Phase</u>

Description	**Capital Rs. Lakhs**	**Recurring Cost Rs. Lakhs/annum**
Waste Water Management (STP of 150 KLD, MBBR-UF)	40	2
Air & Noise Pollution Management: (Tarpaulin sheets, Acoustics enclosures for DG sets)	10	1
Landscaping	3	1
Rainwater Recharging (3 pits)	10	1
Environmental Monitoring	4	4
Solid Waste Management (including mechanical composter of size 200 kg)	20	2
Energy Conservation Measures (Solar lighting, CFL & solar panel system generating 25 KW solar Power)	40	1
TOTAL	**Rs. 127 Lakhs**	**Rs. 12 Lakhs/annum**

<u>During Operation Phase</u>

Description	**Recurring Cost (Rs. In Lakhs/annum)**
Waste Water Management (STP of 150 KLD, MBBR-UF)	6

	Air & Noise Pollution Management		0.5
	Landscaping		3 (for 3 years)
	Rainwater Recharging (3 pits)		1.5
	Environmental Monitoring		4
	Solid Waste Management (including mechanical composter of size 200 kg)		3
	Energy Conservation Measures (Solar lighting, CFL & solar panel system generating 25 KW solar Power)		2
	Miscellaneous		2
	TOTAL		**Rs. 22 Lakhs/annum**
8.4	CER activity details	(i) Rs. 5 lacs will be spent under CER activities for School construction, village toilet repair and medicine distribution in nearly villages.	

On perusal of presentation given by the Project Proponent, the Committee observed as under:

(i) The Project Proponent has not submitted any document in support of that the site of the project is suitable as per the provisions of the Master Plan.

(ii) The Project Proponent has not considered the basement area of 4958.26 sqm in the Non-FAR area. Further, no details of Non-FAR area of 10150.724 sqm have been provided.

(iii) The Project Proponent has considered water demand @ 135 LPCD for residential population which needs to be revised to 86 LPCD by using water efficient fixtures.

(iv) The breakup of 190 flats w.r.t number of flats/floor/tower be constructed in Tower-1 & Tower-2 floor has not been provided.

(v) The Committee perused the permission obtained by the Project Proponent from MC Zirakpur for discharging the excess treated wastewater into sewer which was not found to be appropriate. The Committee asked the project proponent to obtain the revised permission.

(vi) The Project Proponent has not proposed any activity under CER and did not allocate funds under the same. The Committee asked the Project Proponent to allocate up to 1% of the total project cost on the following CER activities:

a) In situ Crop residue Management for control of stubble burning
b) Rejuvenation of Village Pond
c) Development of Infrastructure for utilization of treated effluent of STP.
d) Development of Mini Forests (Nanak Bagichi) in the District.
e) Alternative to single use plastic.

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

(i) The Project Proponent shall submit supporting document that the site of the project is suitable as per the provisions of the Master Plan.

(ii) The Project Proponent shall consider basement area of 4958.26 sqm in the Non-FAR area. Further, the details of Non-FAR area of 10150.724 sqm shall be provided.

(iii) The Project Proponent shall consider water demand @ 86 LPCD for residential population by using water efficient fixtures.

(iv) The Project Proponent shall provide breakup of 190 flats w.r.t number of flats/floor/tower be constructed in Tower-1 & Tower-2 floor.

(v) The Project Proponent shall obtain revised permission from MC Zirakpur clearly indicating that their sewer has sufficient capacity to take the hydraulic load of the proposed project for discharging excess treated waste water.

(vi) The Project Proponent shall propose activity under CER by allocating funds up to 1% of the total project cost on the following CER activities:

a) In situ Crop residue Management for control of stubble burning
b) Rejuvenation of Village Pond
c) Development of Infrastructure for utilization of treated effluent of STP.
d) Development of Mini Forests (Nanak Bagichi) in the District.
e) Alternative to single use plastic.