Proceedings of 187th meeting of State Expert Appraisal Committee held on 26.02.2020 (Wednesday) at 10:30 am in the Conference Hall,at 2nd Floor, PSCST, Sector-26, Chandigarh.

The following members were present: -

Sr. No.	Name of SEAC Member	Designation in SEAC
1.	Er. Yogesh Gupta	Chairman
2.	Er. Pardeep Garg	Secretary
3.	Er. Nirmal Singh Kahlon	Member
4.	Sh. A.K Bhatia	Member
5.	Dr. Pawan Krishan	Member
6.	Sh. V.K Singhal	Member
7.	Sh. Deepak Sethi	Member
8.	Sh. Parminder Singh Bhogal	Member

Item No .01 Confirmation of the proceedings of 186th meeting of State Level Expert Appraisal Committee held on 26.12.2019.

SEAC was apprised that the proceedings of 186th meeting of State Level Expert Appraisal Committee held on 26.12.2019 were circulated to all the members of SEAC vide email dated 20.12.2019. As such, the SEAC confirmed the proceedings of said meetings with the ratification as under:-

The name mentioned in the proceeding of 186th meeting as Er.Gurdinder Singh be read as Gurinder Jit Singh and he was associated with present SEAC since November 2017.

Item No. 02: Action taken on the proceedings of 184th ,185th and 186th meeting of State Level Expert Appraisal Committee held on 21.09.2019, 29.11.2019 and 26.12.2019 respectively.

Noted.

Item No. 187.01 Application for revised Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of residential project namely "Eastern Park" village Bholapur, Chandigarh Road, Ludhiana by M/s Gaurav Land Developers And Colonizers Pvt. Ltd. (Proposal No. SIA/PB/MIS /115414/2019).

SEAC observed as under: -

1.0 Background

The project proponent has applied for revised Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of residential Project namely "Eastern Park" village Bholapur, Chandigarh Road, Ludhiana. The project is to build affordable apartments for EWS, LIG and MIG sections of the society and is part of the Mission "Housing for All-2022" of Government of India.

The project proponent had earlier planned the project as "Garav Basera" at the same site – with total built-up area of ~75980 m2 in a land area of ~30935 m2 (~7.641 acres). The project was granted "Environmental Clearance" by the SEIAA, Punjab, vide No. SEIAA/2019/2 dated 07.01.2019. Due to changes in Building Rules of Punjab, the project layout had to be revised for which the EC application is under consideration.

Essential details were sought from the project proponent online on 18.09.2019 and 16.10.2019 to which he replied on 15.10.2019 and 17.10.2019, respectively.

Further, Environmental Engineer, PPCB, RO-3, Ludhiana vide letter no. 2340 dated 27.11.2019 reported that the proposed site was an open plot and front side was barricaded with metal sheets. No construction had been started yet. As per the said report, the site was meeting with the siting guidelines framed for the residential projects.

The case was considered by SEAC in its 186th meeting held on 26.12.2019 wherein environmental consultant of the promoter company presented the salient features of the project as under:

Sr No.	Item	Details
1	Online Proposal No.	SIA/PB/MIS/115414/2019
2	Name and Location of the project	The Eastern Park Village Bholapur, Adjoining Garden City, Chandigarh Road, Tehsil Ludhiana East, Distt. Ludhiana (Punjab)
3	Project/activity covered under item of scheduled to the EIA	Category 8(a) Built-up area > 20000 m^2 and <150000 m^2

	Notification, 14.09.2006	
4	Whether the project is in critical polluted area or not.	The project category does not attract "General Conditions"
5	Does the project involve diversion of forest land.	No
6	Is the project covered under PLPA,1900, if No but located near to PLPA area then the project proponent is required to submit NOC from the concerned DFO to the effect that project area does not fall under the provision of PLPA Act,1900.	No
	Is the project covered under PLPA,1900, if yes then Status of the NOCw.r.t PLPA,1900.	Not Applicable
7	Does the project fall within 10 km of eco- sensitive area/ National park/Wild Life Sanctuary.	No
8	Classification/Land use pattern as per Master Plan	Residential
9	Cost of the project	Rs 93 crores (approx.)
10	Total Plot area, Built-up Area and Green area	Total land area (net): 30935 m^2 (7.64 acres) Total built-up area, m^2: 95277.5 m2 Area under parks/ play grounds/ green area, m^2: 8800 m^2 (28.4%)
11	Details of EC fee	Rs 1,91,000/- vide R.No. 4358 dated 10.09.2019 submitted online vide NEFT Reference no. 5032134344 dated 10/09/2019
12	Population (when fully operational)	4750 persons
13	Water Requirements & source in Construction Phase	Construction water requirement (<5 kLD) – use of treated wastewater to be sourced from nearby STP/ETP Domestic water requirement (~10 kLD, for workers) – use of ground water
14	Break up of Water Requirements & source in Operation Phase: (Summer, Rainy, Winter):	

15	S. No.	Season	Fresh Water	Reuse water		Total KLD
			Domestic	For Flushing purposes KLD	Green Area KLD	
	1.	Summer	680	200	40	920
	2.	Winter	680	200	20	900

	3.	Rainy	680	200	10	890
	Source of Water			Groundwater/ Treated waste water		
16	Treatment & Disposal arrangements of waste water in Construction Phase			Septic tank Disposal onto land for irrigation		
17	Disposal Arrangement of Waste water in Operation Phase			Total 660 KLD waste water will be generated and the disposal arrangement of the same is under:-		

Sr. No	Season	For Flushing purpose s (KLD)	Green Area sqm (KLD)	Irrigation of plantation (KLD)
1.	Summer	200	40	Nil
2.	Winter	200	20	Nil
3.	Rainy	200	10	Nil

18	Solid waste generation and its disposal	a) 2000 kg/day b) Segregation at source into recyclable, bio-degradable and non-recyclable c) Recyclable component shall be sold to recycler d) Bio-degradable component shall be stabilization through on-site mechanical composter and used as manure e) Non-recyclable component shall be disposed through MC, Ludhiana
19	Hazardous Waste & E- Waste	Spent oil to be disposed through authorized recycler
20	Energy Requirements & Saving	a) 6600 kVA b) 13% energy will be saved by taking various measures such as :- i) Solar based common lighting~2% ii) Roof-top solar (PV) power (~230 kWp potential) ~5% iii) Use of LED based common lighting~3% iv) Energy efficiency in receiving/ distribution~1% v) High efficiency motors/transformers ~0.5% vi) Miscellaneous architectural features/ HVAC ~1.5%
21	Environment Management Plan along with Budgetary break up phase wise and responsibility to implement	Construction: Capital cost of EMP = Rs 10,Lacs Operational cost of EMP =Rs 5.0,Lacs per year Operation: Capital cost of EMP = Rs 216 Lacs Operational cost of EMP =Rs 42 Lacs per year
22	CER activities along with	a) Educational & skill development of under-

	budgetary break up and responsibility to implement	privileged and drop-out children (INR ~15 lacs) b) Development of access roads to Village Bholapur (INR ~25 lacs) c) Plantation work in Village Bholapur (INR ~1.5 lacs) d) Medical camps/medicine distribution (INR ~3 lacs) e) Pathway lighting for the village community & its maintenance (INR ~5 lacs) f) Cleanliness drives & water management awareness camps (INR ~2.5 lacs) g) Regular maintenance of village pond (INR ~4 lacs) h) Gross CSER Commitment = (INR ~56 lacs)

SEAC raised the following queries to the project proponent to which he replied as under:

Sr. No	**Observations**	**Reply**
1	Water balance calculations are required to be revised considering actual water consumption and STP is to be designed considering 200 l/p/day wastewater generation.	The project proponent agreed to submit the revised water balance calculation.
2	What is the proposal for disposal of the treated wastewater? i) Is there any provision of sewer in the area? ii) The project proponent is required to submit proper proposal for discharge of treated wastewater.	The treated wastewater will be utilized onto land of area of about 9.256 acres for plantation as per Karnal Technology. i) The sewer line of the area falls at a distance of about 700 m from the project site. ii) The project proponent sought time to submit reply.
3	Submit the rainwater recharging plan as per the CGWA norms	The project proponent sought time to submit reply
4	How many tubewells are proposed by the project proponent.	There is one existing borewell. Another new borewell will be provided to meet with the demands in future and for that the application has been submitted in CGWA.
5	Whether permission has been obtained from the concerned	No such permission has been obtained.

	department for development of access road to village Bholapur under CER activity	
6	The CER activities proposed by the project proponent are general and not specific.	The project proponent agreed to submit the revised CER.

After detailed deliberations, SEAC decided to defer the case and asked the project proponent to submit the reply to the aforesaid observations.

The project proponent submitted reply to the aforesaid observations, which was attached as Annexure-A of the agenda.

The case was again considered by SEAC in its 187th meeting held on 26.02.2020 and the same was attended by the following on behalf of the project proponent:

i) Sh. Vidhu Mangal, Director and Sh. Gaurav Gupta, Director of the promoter company.
ii) Sh. Sital Singh, EIA coordinator, M/s CPTL, Mohali, Environmental Consultant of the promoter company.

In reply to the observations raised during the meeting and previous meeting of SEAC, the project proponent submitted as under:

Sr. No	**Observations**	**Reply**
1	Water balance calculations are required to be revised considering actual water consumption and STP is to be designed considering 200 l/p/day wastewater generation.	Project proponent submitted the revised water balance calculations, which was taken on record by the SEAC.
2	The project proponent is required to submit proper proposal for discharge of treated wastewater.	They have earmarked land area of ~9.256 acres (located just abutting the project site and owned by the directors of the company). The land shall be developed into plantation area using the Karnal technology, specifically for the purpose of disposal of treated wastewater. An affidavit has also submitted to the effect the said land will not be sold till the project site gets sewer connectivity from the local government.
3	Submit a proposal for discharge of the treated wastewater in case PUDA fails to lay down its	The project proponent will connect the sewerage system of the project with the

<table>
<tr><td></td><td>sewer</td><td>existing MC sewer line at its own cost.</td></tr>
<tr><td>4</td><td>What kind of technology will be adopted for designed the STP</td><td>STP of 700 KLD will be designed based on MBBR Technology</td></tr>
<tr><td>5</td><td>Submit details of the green area</td><td>total 8800 sqm green area will be developed out of which 6200 sqm will be Organized parks/ green area and 2600 sqm will be un-organized green area including 1300 sqm for green strips.</td></tr>
<tr><td>6</td><td>Submit the rainwater recharging plan as per the CGWA norms</td><td>The project proponent submitted the recharging plan in conformance with the CGWA. Total no. of 9 rain water harvesting pits will be provided. The detailed calculations were taken on record by the project proponent</td></tr>
<tr><td>7</td><td>How many tubewells are proposed by the project proponent.</td><td>There is one existing borewell. Another new borewell will be provided to meet with the demands in future and for that the application has been submitted in CGWA.</td></tr>
<tr><td>8</td><td>Whether permission has been obtained from the concerned department for development of access road to village Bholapur under CER activity</td><td>Permission/NOC from the local Panchayat will be obtained shortly.</td></tr>
<tr><td>9</td><td>The CER activities proposed by the project proponent are general and not specific.</td><td>Submitted the more comprehensive and activity specific CSER. Total Rs. 5,80,000/- will be spent on CER activities having details given as under</td></tr>
</table>

Sr No.	Proposed CSER activity	Amount (INR)	Likely Date of Completion
1.	General		
i)	Medical/Healthcare Support	300000	December, 2022
2.	Village Bholapur		
ii)	Street Lighting 50Nos.	350000	Already Done
iii)	Plantation of trees with tree guards 100 Nos	100000	December, 2020
iv)	Renovation of Village Pond	8000000	December, 2023
v)	Toilets for Girls in Govt, School	400000	December, 2021
vi)	Installation of colour coded waste bins 50 Sets	150000	December, 2020

	vii)	Carpeting of Access road to Vill. Bholapur (60ft X 1Km)	2000000	Already Done
	3.	Village Jhabewal		
	i)	Solar Street Lighting 20 Nos.	300000	December, 2021
	ii)	Audio visual equipment for Smart Class in Govt. School	150000	December, 2020
	iii)	Tree plantation with tree guards 50 Nos.	50000	December, 2020
	iv)	Colour coded waste bins 50 Sets	150000	December, 2020
	v)	Furniture for Govt. School	200000	December, 2022
	4.	Village Shahbana		
	i)	Solar Street Lighting 20 Nos.	300000	December, 2021
	ii)	Toilets for girls in Govt. School	400000	December, 2023
	iii)	Colour coded waste bins 50 Sets	150000	December, 2020
		Total Amount	5800000	

SEAC was satisfied from the presentation and reply given to the observation. SEAC took a copy of presentation along with reply on record.

After deliberations, SEAC decided to award 'Silver Grading' to the project proposal and to forward the application of the project proponent to SEIAA with the recommendations to grant revised Environmental Clearance for expansion of the project namely "Eastern Park" having built up area 95277.5 sqm in total land area of 30935 sqm located at village Bholapur, Chandigarh Road, Ludhiana in supersession of the earlier environmental clearance granted vide no SEIAA/2019/21 dated 07.01.2019 to the project "Garav Basera" , as per the details mentioned in the Form 1, 1A, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with, proposed measures, conditions prescribed in **Annexure-I** subject to following additions amendments and deletions and special conditions given as under:

Conditions to be added in the Annexure-I as under :

Special conditions

i) This environmental clearance is issued in supersession of the earlier environmental clearance granted vide no SEIAA/2019/21 dated 07.01.2019 to the project "Garav Basera".

ii) In case, PUDA or concerned authority fails to provide the sewerage connection in lieu of the External Development Charges, the project proponent will connect the sewerage system of the project with the existing MC sewer line at its own cost.

Conditions to be amended in the Annexure-I as under :-

Condition no. iv), v-a) & xv) of III. Water quality monitoring and preservation

i) The total water requirement for the project will be 660 KLD, out of which 460 KLD shall be met through own tube well and remaining through recycling of treated waste water. Total fresh water use shall not exceed the proposed requirement as provided in the project details.

ii) a)The total wastewater generation from the project will be 530 KLD, which will be treated in STP of capacity @ 700 KLD on MBBR technology within the project premises. As proposed, reuse of treated wastewater and discharge of surplus treated wastewater shall be as under: -

Sr. No.	Season	For Flushing purposes (KLD)	Green Area (KLD)	Plantation area (9.256 acres) in addition to the green area adjoining to the project or Sewer* (KLD)
1.	Summer	200	40	290
2.	Winter	200	20	310
3.	Rainy	200	10	320

* Note : Surplus treated wastewater will be discharged into MC sewer as and when sewer connection is available with the project

xv) A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. Thus, 20 nos of rain water harvesting recharge pits shall be provided for ground water recharging as per CGWA norms. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority..

X. Condition no. i) & iv) of X of Corporate Environment Responsibility

i) The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least minimum amount of Rs. 5,80,000/- towards following CER activities: -

1.	General		
i)	Medical/Healthcare Support	300000	December, 2022
2.	Village Bholapur		
i)	Street Lighting 50Nos.	350000	Already Done
ii)	Plantation of trees with tree guards 100 Nos	100000	December, 2020
iii)	Renovation of Village Pond	8000000	December, 2023

iv)	Toilets for Girls in Govt, School	400000	December, 2021
v)	Installation of colour coded waste bins 50 Sets	150000	December, 2020
vi)	Carpeting of Access road to Vill. Bholapur (60ft X 1Km)	2000000	Already Done
3.	Village Jhabewal		
i)	Solar Street Lighting 20 Nos.	300000	December, 2021
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iii)	Tree plantation with tree guards 50 Nos.	50000	December, 2020
iv)	Colour coded waste bins 50 Sets	150000	December, 2020
v)	Furniture for Govt. School	200000	December, 2022
4.	Village Shahbana		
i)	Solar Street Lighting 20 Nos.	300000	December, 2021
ii)	Toilets for girls in Govt. School	400000	December, 2023
iii)	Colour coded waste bins 50 Sets	150000	December, 2020
	Total Amount	**5800000**	

iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall spend minimum amount of Rs 10.0 Lacs towards capital cost and Rs 5.0 Lacs/annum towards recurring cost in Construction phase of the project including the environmental monitoring cost and shall spend minimum amount of Rs 216 Lacs towards capital cost and Rs 42.0 Lacs/annum towards recurring cost in operation phase of the project including the environmental monitoring cost. The entire cost of the environmental management plan will continue to be borne by the project proponent until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

Item No. 187.02 Application for obtaining Environmental Clearance for expansion of an existing Sugar Mill Plant of capacity 5000 TCD alongwith co-generation power plant of capacity 59.5 MW at village Chak Allabaksh and Muahiuldinar, Tehsil Mukerian, District Hoshiarpur, Punjab by M/s Indian Sucrose Limited, GT Road, Tehsil Mukerian, Distt. Hoshiarpur (Online Proposal No. SIA/PB/IND2/22643 /2018.

SEAC observed that :

1.0 Background

The project proponent has applied for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for Capacity Expansion of existing Sugar Mill Plant from 5,000 TCD along with Cogeneration Power of 19.5 MW to 12,000 TCD along with 59.5 MW Cogeneration Power Plant at Village- Chak Allabaksh & Mahiuldinpur Dalel, Tehsil-Mukerian, District- Hoshiarpur (Punjab) Project Activity 5(j) & Category 'B' as per EIA Notification, 2006.

Earlier, the case was considered by SEAC in the 166th meeting held on 24.05.2018 and was forwarded to SEIAA with recommendation to grant TORs along with additional specific TORs. Accordingly, SEIAA in its 133rd meeting held on 06.07.2018 decided to issue the TORs. In compliance to the said decision, TORs were issued to the project proponent vide letter no. SEIAA/2019/858 dated 16.07.2018.

The project proponent has now submitted the EIA report. The application for obtaining EC was submitted online on 15.05.2019 before the date of notification dated 27.06.2019 and thus, the fee for obtaining EC was not applicable on the project. EIA report was scrutinized and EDS were raised to project proponent on 14.02.2019 and 05.09.2019 respectively to which he replied on 02.09.2019 and 18.12.2019 respectively. The said reply was taken on record.

The case could not be considered by the SEAC in its 185th meeting due to paucity of time and it was decided that the case be placed in the next meeting on priority basis.

The case was considered by the SEAC in its 186th meeting held on 26.12.2019 and the meeting was attended by the Sh. V.P Gupta, Vice President, authorized representative of the project proponent and Environmental Consultant. Environmental Consultant of the promoter company presented the salient features of the project. The details with regards to rain water harvesting, water demand calculations, dust & slag disposal, maintenance plan of green area, online monitoring system of APCD & Toposheet showing the distance of project location from CEPI Cluster were deliberated.

After detailed deliberations, SEAC decided to defer the case and the project proponent was asked to submit the reply to certain observations.

2.0 Deliberations during the 187th meeting of SEAC held on 26.02.2020

The case was considered by the SEAC in its 187th meeting held on 26.02.2020, which was attended by the following: -

i) Sh. Ved Prakash Gupta, Vice President of the company

ii) Sh. S.K Sharma, EIA-Co-ordinator, M/s Vardan Environet.

iii) Ms. Pooja Sharma, M/s Vardan Environet, Environment Consultant of the promoter company

Environmental Consultant of the Project proponent submitted the reply of the queries of the committee raised in 186th SEAC meeting as under:-

Sr. No.	Observations	Replies
1.	Revised Water Balance Diagram	Total fresh Water requirement is 597 KLD out of which 47 KLD for domestic and 550 KLD will be used for industrial purpose. Total discharge available at the outlet of ETP is 2515 KLD (after addition of surplus water of 2400 KLD from sugar cane) out of which 1270 KLD to be used for green belt, 800 KLD for wet scrubber as make up water, 41 KLD for Bagasse sprinkling , 354 KLD for horticulture and 50 KLD for floor washing purposes.
2.	Affidavit Handling of Sludge by Centrifuge.	Affidavit for Handling of Sludge by Centrifuge in 10 sludge beds having size 8X4 within the plant premises has been submitted. Now, they will use centrifuge technique to handle sludge.
3.	Inlet and outlet Characteristics of existing APCD.	There are 3 boilers (40+40+80 TPH) having 2 stacks. Results of emissions at inlet is found as under:- **At Inlet** PM10: 2492.68 mg / Nm^3 & 2462.52 mg / Nm^3, SO2 :54.12 mg / Nm^3 & 62.11 mg / Nm^3 NOx (65.32 mg / Nm^3& 74.28 mg / Nm^3), which is reduce by using wet scrubber as APCD and emission results is as under:- **At outlet** PM10 :102.45 mg / Nm^3 & 112.85 mg / Nm^3, SO2: 32.58 mg / Nm^3 & 38.47 mg / Nm^3 NOx :40.12 mg / Nm^3 & 47.12 mg / Nm^3
4.	Examine the installation of ESP as APCD.	Technology for proposed ESP, is dry type Electrostatic precipitators (ESP) to collect dust in the flue gas produced by boiler.
5.	Ground water sampling from State Laboratory i.e PBTI Lab, Mohali	Copy of the test report of PBTI Lab has been submitted, but the sampling in not done by PBTI. Following are the details:

		Total 3 samples (Chak Alla Baksh, Bishanpur & Khanpur) were taken from nearby villages. Results of all parameters of ground water sampling for 2 locations are with in permissible limits. There is only 1 parameter of 1 sample (Chak Alla Baksh, 0.7 Km) i.e., hardness is observed as 240 mg/l which is higher than desirable limits (200mg/l) but lower than permissible limits (600 mg/l).
6.	Damage assessment studies in compliance to the TOR no. 14	Revised study of Damage assessment done in the nearby area at the project site has been submitted. No Environmental damage was observed. Total 41/- Lakhs will be spent as remediation plan.
7.	Detail of CER activities as per OM Dated 01.05.2018 for Rs 8.0 Crore as committed during public hearing.	Total CER cost of Rs. 8.4 Crore submitted. Project proponent will provide R.O., Rain water harvesting, Computers, Dispensary to the nearby villages. Total budget 1.6 Crores/ yr for 5 years will be spent as CER activity in nearby 5 villages.
8.	Rain water recharging proposal.	Rain water recharging proposal submitted indicating the rain water recharging pit can accommodate 116.5 m^3/hr of the rain water. Therefore, 26 rainwater harvesting structure require to accommodate the total quantum of runoff (47367.56 m3/annum)
9.	Detail of the plantation area & Maintenance plan for Green Area.	Submitted, total land area of project site is 21.46 ha out of which 7.79 ha (33.39%) is greenbelt.

The reply submitted by the project proponent was taken of record by the SEAC.

SEAC was not satisfied from the reply of the project proponent given at observation no. 1, 5, 6, 7 & 8. However, on the request of project proponent, SEAC allowed the Environmental Consultant of the promoter company to present the salient features of the project and he presented the same as under:

Sr. No.	Item	Details
1.	Online Proposal No.	SIA/PB/IND2/22643/2018

2.	Name and Location of the project	Capacity expansion of sugar mill from 5000TCD along with 19.5MW Cogeneration power plant to 12000 TCD along with 59.5MW cogeneration power plant at Village- Chak Allabaksh and Mahiuldinpur Dalel, Tehsil-Mukerian Distt.-Hoshiarpur, Punjab.
3.	Latitude & Longitude	

Point	**Latitude**	**Longitude**
A	31°55'40.357" N	75°37'13.668"E
B	31°55'42.288" N	75°37'18.500"E
C	31°55'43.868" N	75°37'32.417"E
D	31°55'48.081" N	75°37'37.553"E
E	31°55'46.114" N	75°37'37.296"E
F	31°55'34.951" N	75°37'47.122"E
G	31°55'31.661" N	75°37'37.297"E
H	31°55'36.520" N	75°37'24.140"E
I	31°55'36.431" N	75°37'14.507"E

4.	Project/activity covered under item of scheduled to the EIANotification, 14.09.2006	5(j)
5.	Whether the project is in critical polluted area (Yes or No)_.	No
6.	Does the project involve diversion of forest land. .	No, However, NOC from DFO is obtained vide letter no 1607 dated 22/09/2017.
8.	Does the project fall within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary.	NA
9.	Classification/Land use pattern as per Master Plan	Land (21.46 ha) is being used for industrial purposes. Land conversation has been approved by the town & village Department, Punjab 30.09.2016
10.	Cost of the project	Existing (5000 TCD) – 157 crore Proposed (7000 TCD) – 190 crore Total – 347 crore
11.	Total Plot area, Built- up Area and Green area	Total Area- 21.46 Ha, Built-up area-7.68 Ha, Green area-7.79 Ha
12.	Population (when fully operational)	Existing-325 Proposed-25 Total-350
14.	Breakup of Water Requirements & source in Operation Phase	

Total water requirement for the project after expansion will be 597 KLD; out of which fresh water requirement will be 597KLD. Break-up of the same is given below:

S. No.	Description	Existing water demand (KLD)	Water demand after expansion (KLD)
1.	Cooling water Demand	-	-
2.	Domestic water Demand	-	47
3.	Process water Demand	468 KLD	550
Total		468	597

Latest technology will use to reduce water demand.

Sr. No.	Description	Source of water
1.	Domestic	Ground water
2.	Make-up water demand for cooling	Recycled water
3.	Flushing purposes	Recycled water
4.	Green area water demand	Recycled water
5.	HVAC	NA

15.	Treatment & Disposal arrangements of waste water in Construction Phase	ETP & STP
16.	Disposal Arrangement of Waste water in Operation Phase	

Details	Quantity (After expansion)	Remarks
Industrial Effluent	2515KLD	2515 KLD
Domestic effluent	41 KLD	41 KLD

17.	Rain water recharging detail	26 RWH structure
18.	Solid waste generation and its disposal	i) ETP/STP sludge will be collected and given to the farmers. ii) Boiler ash will be given to the Brick manufacturing. iii) Bagasse will be used as fuel in the boilers. iv) Press mud will be given to the farmers.
19.	Hazardous Waste & E- Waste	The details of the hazardous waste generated is given below:

S. No.	Description	Existing	After expansion
i)	Cat. 35.1 – Exhaust air or Gas cleaning Residue	Nil	Nil
ii)	Cat. 5.1 – Used Oil	112 Ltr/ Annum	310 Ltr/ Annum
iii)	Category 34.3 – ETP sludge	Nil	Nil
iv)	Category 33.1 – Hazardous chemicals / waste	Nil	Nil

20.	Energy Requirements & Saving	The details of the energy is given below:

S. No.	Description	Existing	After expansion
i)	Power load	160 MW	224 MW
ii)	D.G sets	1045 KVA	3000KVA

Energy Saving measures:

a) LEDs will be used in place of CFL
b) Solar lights will be used for lighting the streets

21.	Environment Management Plan along with Budgetary break up phase wise and responsibility to implement	

Description	Capital cost (lakhs)	Recurring cost (lakhs)	Monitoring of Air, Noise, water (per annum) Rs.
Construction	-	-	-
Operation	379	38	10 Lakh

22.	CER activities along with budgetary break up and responsibility to implement	

Mr. Ved Prakash Gupta, Authorized person of M/s Indian Sucrose Ltd. will be responsible for implementation of CER (Corporate Environment Responsibility). Rs.168 lakhs (@% of expansion cost) is required for C.E.R activities as per Office Memorandum vide F. No. 22-65/ 2017-IA.III dated 01.05.2018.However, he following activities have been proposed to be covered under CER:

S. No.	Area of Concern	Action Plan	Budget Allocated for 1 year (in Lakhs)	Budget Allocated for 5 years (in Lakhs)

1	Community water conservation for villages :- 1. Bishanpur 2. Chak Allabaksh 3. Durgi Rajpuran 4. Mahiuldinpur Dalel 5. Khanpur	• A reverse osmosis system in village • Cost of the scheme @ 5 in each village*5=25	25	125
		• Rain Water Harvesting System in villages- • Cost of the scheme @5 lac in each village*5= 20	25	125
2	Health facilities for village 1. Bishanpur 2. Chak Allabaksh 3. Durgi Rajpuran 4. Mahiuldinpur Dalel Khanpur	• New dispensary in the village • Cost of dispensary @ 10 lac in each village * 5 = 50 lac	50	250
		• Ambulance 24x7 made available villages • Cost of an Ambulance- 4 lacs x5 villages=20 Lacs	20	100
3	Employment opportunity in the village 1. Bishanpur 2. ChakAllabaksh 3. DurgiRajpuran 4. MahiuldinpurDalel 5. Khanpur	• Vocational • Training Center for the educated youth of the villages. • Short-term courses for skill up gradation for villagers	48	240
		Total	1.68 Cr	8.40 Cr

3.0 Recommendations

After detailed deliberations, SEAC decided to defer the case till the project proponent submits reply to the following observations: -

i) Submit compliance of TOR no iv-x (b), i.e. in case the existing project has not obtained environment clearance, copies of Consent to Establish/ No Objection Certificate and Consent to Operate obtained from PPCB along with compliance report to the conditions of consents from PPCB
ii) Submit action taken report on the compliance report to the conditions of consents from PPCB
iii) Submit revised rain water recharging proposal based upon the pond adoption as per the design of PPCB. In this regard, Project Proponent shall also submit NOC/ permission from the rural development authorities.
iv) Submit revised CER activities as per the OM dated 01.05.2018
v) Submit a copy of the application filed to CGWA for obtaining approval for

abstraction of existing ground water. Also submit a copy of revised application filed to CGWA for obtaining approval for the proposed expansion.

vi) Submit revised Water Balance Diagram along with basis/calculation of water requirement

vii) Upload the Final EIA report on the Parivesh portal

viii) Provide waste water treatment details for existing & proposed expansion separately

i) Ground water sampling from State Laboratory i.e PBTI Lab, Mohali as the earlier sample not drawn by M/s PBTI, Lab

ii) Resubmit the damage assessment studies in compliance to the TOR no. 14

iii) Clarify, project coordinates mentioned in EIA report not matching with the coordinates mentioned in presentation.

Item No. 187.03: Application for obtaining Environmental Clearance (EC) under EIA notification dated 14.09.2006 for Expansion of existing water based paints, powder coating paints and emulsion manufacturing facilities in its Integrated Paint Manufacturing Facility at Phase II, Goindwal Industrial Complex, Village - Goindwal Sahib, Tehsil- Khadur Sahib, District- Tarn Taran, Punjab by M/s Kansai Nerolac Paints Limited (Proposal no SIA/ PB/IND2/ 21582/2018).

SEAC observed that:

1.0 Background

The project proponent has applied for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for Expansion of existing water based paints, powder coating paints and emulsion manufacturing facilities in its Integrated Paint Manufacturing Facility at Phase II, Goindwal Industrial Complex, Village - Goindwal Sahib, Tehsil- Khadur Sahib, District- Tarn Taran, Punjab Project is covered under Activity 5(h) "Integrated Paint Industries" of the Schedule appended to the said notification.

The project was earlier granted TOR vide letter no. SEIAA/2018/473 dated 09.04.2018 with Standard Terms of Reference and additional specific TORs decided during meeting of SEAC.

The case was considered by SEAC in the 162nd meeting held on 15.02.2018 and was forwarded to SEIAA with recommendation to grant TORs along with Standard Terms of Reference and additional specific TORs decided during meeting of SEAC. Accordingly, SEIAA in its 128th meeting held on 06.03.2018 decided to issue the TORs. In compliance to the said decision, TORs were issued to the project proponent vide letter no. SEIAA/2018/473 dated 09.04.2018. The project proponent is allowed exemption from the process of public consultation as the proposed site is located in an Industrial area which was established prior to the issuance of EIA notification,2006.

EIA report was scrutinized and EDS were raised on 05.03.2019 to which project proponent replied online. The application for obtaining EC was accepted online on 30.03.2019 before the date of notification dated 27.06.2019 and thus, the fee for obtaining EC is not applicable on the project. he salient feature of the project are briefed as under:

1	Name and Location of the project	M/s. Kansai Nerolac Paints limited, Village-Goindwal Sahib, Tehsil- Khadur Sahib, District-Taran Taran, Punjab
2.	Category / Item No. (in schedule)	5 (h) Integrated Paint Industry

3.	Details	Existing land area	Greenbelt area	Area for Expansion
	Plot Area	142179 sqm	4692 sqm	26,274 sqm

4	Co-ordinates of the project site	
	31 21 42.10 N	75 7 57.60 E
	31 21 47.10 N	75 7 50.00 E
	31 21 45.50 N	75 7 48.60 E
	31 21 42.30 N	75 7 45.80 E
	31 21 36.10 N	75 7 40.40 E
	31 21 35.90 N	75 7 40.20 E
	31 21 40.30 N	75 7 33.20 E
	31 21 40.70 N	75 7 32.80 E
	31 21 39.70 N	75 7 32.80 E
	31 21 35.20 N	75 7 39.70 E
	31 21 33.00 N	75 7 37.60 E
	31 21 28.10 N	75 7 45.70 E
	31 21 34.30 N	75 7 50.30 E

5.	Project Cost	Rs. 370 crores
6.	Raw Material requirement	

S. No.	Chemical	State	Storage means	Size of storage means	Consumption (MT/Month)
	Product: Water based paint				
1.	Additives	Powder & liquid	Bag, barrel & Carboy	Bag: 25 kg Barrel: 200 liters Carboy: 25 Liters.	310
2	Biocides	Powder & liquid	Bag, barrel & Carboy	Bag: 25 kg Barrel: 200 liters Carboy: 25 Liters.	162
3	Driers	Liquid	Barrel	200 Liters	3
4	Emulsion	Liquid	Barrel, Carboy, Storage Tank	Barrel: 200 Liters Carboy: 25 Liters Storage Tank: 30 KL	2850
5	Extenders	Powder	Bag	25 Kg	4073
6	Pigments	Solid, Liquid, Paste	Bag , Carboy	Bag:25 Kg Carboy: 25 Kg	383
7	Liquor ammonia	Liquid	Carboy	Carboy: 25 Liter	27
8	Chemicals	Powder, Solid	Bag	25 Kg	112
9	TiO2	Powder	Bag	25 Kg	725
10	Water	Liquid	Storage Tank	60 KL	5650
	Product: Powder coating paint				
11	Additive	Solid	Bag	25 kg	22
12	Catalyst	Solid	Bag	25 kg	0.5
13	Extender	Solid	Bag	25 kg	444
14	Hardener	Solid	Bag	25 kg	7
15	Metallic Pigment	Solid	Bag	25 kg	0.2
16	Pigment	Solid	Bag	25 kg	99

S. No.	Chemical	State	Storage means	Size of storage means	Consumption (MT/Month)
17	Resin	Liquid, Solid	Barrel, Bag	200 Liter, 25 Kg	650
18	Wax	Solid	Bag	25 kg	3
	Product : Emulsion				
19	Additives	Powder	Bag	20 kg	4.7
20	Chemicals	Powder, Liquid	Bag, Carboy, Barrel	Bag- 25 kg Carboy: 25 liter Barrel: 200 liter.	140
21	Monomer	Liquid	Storage Tank	Styrene :60 KL Other Monomers– 100 kl	1386.5
22	Liquor ammonia	Liquid	Carboy	25 liters	24.5
23	De-ionized water	Liquid	Storage tank	60 KL	1471.5
24	Biocides	Liquid	Carboy	25 liters	3.75

7. Production Capacity

S.No.	Name of Products	Unit	Production capacity	Proposed Expansion	Total Capacity
1	Water based paints	TPA	38000	74000	112000
2	Powder coating paints	TPA	14400	Nil	14400
3	Emulsion	TPA	24000	12000	36000

9. Manpower

Man-power requirement for manufacturing facility is approx. 145 nos. (Permanent and contract basis).

10. Water Requirements & its source

Total Water Demand: 711 KLD
i) Recycled water 165 KLD
ii) Fresh water demand: 546 KLD
The main source of water available in the area is PSIEC water supply and bore well after prior permission from CGWA.

11. Details of Effluent

No.	Details	Quantity (After Expansion)	Remarks
i)	Industrial Effluent	111	The effluent generated from the domestic use will be separately treated in STP and treated water will be completely reused in gardening. The industrial effluent will be collected separately and treated in ETP followed by RO & MEE. Treated water
ii)	Domestic Effluent.	KLD	

				from RO and MEE will be recycled and reused in plant premises. The ETP sludge and salts will be disposed at TSDF.	

12. Details of Emissions

Sr. No.	Source	Existing Capacity	Proposed capacity	Chimney Height (m)
i)	Boiler	300 Kg/Hr	450 kg/hr	30.0
ii)	Boiler	900 Kg/Hr	1000 kg/hr	30.0
iii)	DG SET	2000 KVA	2000 KVA	30.0
iv)	DG SET	2000 KVA	2000 KVA	30.0
v)	DG SET	0	500 KVA	30.0

13. Details of Hazardous waste and its disposal

Sr. No.	**Hazardous Waste Category**	**Quantity (After expansion)**	**Disposal**
i)	ETP sludge	95 Tons	TSDF
ii)	Used/spent oil	6 Tons	PPCB approved authorized recycler
iii)	Oil/grease scheming residue	3 Tons	PPCB approved authorized recycler
iv)	Process waste/residue/sludge	100 Tons	TSDF
v)	Distillation sludge	130 Tons	TSDF
vi)	Contaminated cotton waste/liner	15 Tons	TSDF
vii)	Filler residue	30 Tons	TSDF
viii)	Discarded containers/Bags, barrel liners	197920 Nos	PPCB approved party
ix)	MEE Salt	51 Tons	TSDF

14. Solid waste generation and its disposal

i) Non - hazardous waste like paper and plastic waste, wooden scrap, metal scrap, will be sold to recyclers.
ii) The Sludge generated from the STP of ~14 kg/day will be used as manure for greenbelt development.
iii) Kitchen / Canteen wastes and other biodegradable wastes will be sent to Vermi-composting.

15.	Energy Requirements	Punjab State Power Corporation Ltd (PSPCL) will supply power. The peak power demand will be 4200 KVA. The DG set (2 nos. x 2000KVA, 1no x 500 KVA) will be installed and will be used in case of power failure

16. Environment Management Plan

S. No.	Designation	Proposed responsibility
1.	Works Manager	Overall responsible for Environmental Issues of the plant, Environmental policy and directions
2.	EHS Manager	Overall responsibility for environmental management and decision making for all environmental issues
3.	EHS Officer	Overall in-charge of operation of environmental management facilities Ensure environmental monitoring as per appropriate procedures Ensure correct records of generation, handling, storage, transportation and disposal of solid hazardous wastes. Ensuring legal compliance by properly undertaking activities as laid down by various regulatory agencies from time to time and interacting with the same and arranging awareness programme among the workers

The budgetary requirement for implementation of EMP is as under:-

Sr. No	**Title**	**Capital Cost Rs. Lakh**	**Recurring Cost Rs. INR**
1.	Ambient air monitoring of parameters specified by UPPCB consents from time to time (PM10, PM2.5, SO2, NOx)	5.0	48000 per Annum
2.	Stack monitoring of parameters specified by UPPCB consents from time to time	135	72,000 per Annum
3.	Maintaining record of water consumption and wastewater generation	250	-
4.	Monitoring of industrial effluent of parameters	-	30000 per Annum
5.	Analysis of sewage water	-	30000 per Annum
6.	Monitoring of groundwater	-	9000 per annum
7.	Ambient Noise level	50	2000 per Annum
8.	Maintaining record of Hazardous Waste Generation, Storage and Disposal	--	2,50,000 per Annum

	9.	Hazardous waste (ETP Sludge) analysis	10	10,00,000 per annum
	10	Greenbelt development	7.6	50,000 per annum

17. Other project approvals

i)	CTO from PPCB	Plant is currently under construction phase and CTE has been obtained from PPCB
ii)	Authorization for Hazardous Waste	Authorization for Hazardous waste has been obtained from NIMBUA GREENFIELD (PUNJAB) LIMITED vide letter no. Nibua/ACs/Gen 2016-2017/12273 dated 1st Aug 2016
iii)	CGWA Approval	At present there is no borewell at site. Assurance letter for water supply from PSIEC is given
iv)	Certified compliance report from RO, PPCB	RO MoEF&CC, Chandigarh vide letter no, 5-02/2017- RO (NZ)/1256-1258 dated 17th December 2018

The case was considered by the SEAC in its 181st meeting held on 11.07.2019 wherein , before allowing the Project Proponent and his Environmental Consultant to present the salient features of the project, SEAC asked the project proponent to submit the compliance of observations raised by the Northern Regional Office of MoEF&CC at Chandigarh in the compliance report of earlier granted environmental clearance.

Project proponent submitted the point wise compliance but was unable to show the documentary evidence in support the compliance made to the observations. SEAC was not satisfied with the reply given by the project proponent and his environmental consultant.

SEAC observed that in present case, the compliance report given by the Northern Regional Office of MoEF&CC at Chandigarh shows some observations to which the project proponent has claimed that they have made compliance of the same. However, in absence of any concrete evidence from the project proponent, as such before proceeding further, the action taken report is required to be got verified from the Regional office of MoEF&CC as per OM dated 07.09.2017.

SEAC also observed that in order to avoid the delay, the Committee allowed the project proponent and his environmental consultant to present the salient features of the project so that the project proponent can submit the reply to the further observations (if any) raised in the present meeting.

SEAC asked the certain queries to which project proponent and his environmental consultants sought time to attend the same.

After detailed deliberations, SEAC decided as under:

a) Northern Regional Office of MoEF&CC at Chandigarh be requested to re-verify the action taken by the project proponent w.r.t the observations raised by their office in the early Compliance report received from MoEF&CC and send the report at the earliest possible so that further action on the expansion application may be taken.
b) Case be deferred till the Project proponent and his Environmental Consultant attend the aforesaid observations & submit the complete reply.

In compliance to the above decisions,

a) the Northern Regional Office of MoEF&CC at Chandigarh was requested vide letter no 859 dated 22/08/2019 to re-verify the action taken by the project proponent w.r.t the observations raised by their office in the early Compliance report received from MoEF&CC.

b) The decision of SEAC were conveyed to the project proponent through online ADS (Additional Detail Sought) facility available on the web portal and letter no 861 dated 22/08/2019.

Northern Regional Office of MoEF&CC in reply to above SEAC request submitted the re-verification of the Action Taken report against not complied conditions of monitoring report dated 17.12.2018 vide letter no. 5-02/2017-RO (NZ)/ 427-428 dated 04.12.2019.

The project proponent submitted the reply online on 06.11.2019 to the observation of 181st meeting held on 11.07.2019, which was attached as Annexure-C of the agenda.

The case was considered by SEAC in 186th meeting held on 26.12.2019, but no one from the project proponent attended the meeting. In light of Office Memorandum dated 25.02.2010 of MoEF, Govt. of India, the SEAC decided to defer the case and asked the project proponent to attend next meeting of the SEAC as and when held.

2.0 Deliberations during the 187th meeting of SEAC held on 26.02.2020

The case was placed in 187th meeting of SEAC held on 26.02.2020, which was attended by the following:

i) Sh. Ramandeep Singh Karir, Works Manager.
ii) Mr. Sameer Kadam, M/s Kadam Environmental Consultants Ltd, Environment Consultant of the promoter company

The project proponent presented the reply to the earlier raised observation as under:

Sr. No	Observations rasied on 11.07.2019	Reply submitted by the project proponent
1.	Certificate from the revenue authority w.r.t area of the site falls under which block so as to ascertain its zone that the site does not fall under notified zone asdeclared by CGWA.	Project proponent submitted that as per CGWA notification dated 16th November 2015, the proposed site is falls under non notified area.

2	Water balance needs to be revised as treated waste water accounted for greenbelt purpose is not in consonance with the space available for its disposal within the premises. Simultaneously, alternative space/land required for disposal is to be worked out.	Submitted
3.	Possibility of taking the reject of the boiler and demineralised plant directly into RO/UF instead of ETP so as to reduce the load on the treatment plant.	PP reviewed the water balance, however the blow down water 2 KLD and DM water reject is 2 KLD, which is too less, so M/s KNPL has decided to mix the water in ETP so it will help to dilute the water in ETP.
4	Possibility of recovery of the condensate water and its re-use	Boiler condensate and MEE condensate will be re used in process
5	Possibility of providing three stage RO plant to be explored to increase the RO permeates and to reduce the RO reject quantum so as to minimize the energy requirement for MEE. Ultimately, this will help in reducing the Air Pollution from fuel burning in boiler.	Currently only water based paint plant is under commissioning stage and two stage RO is already provided. However, three stage RO plant will be installed for proposed expansion when full fledge ETP will be operated at maximum capacity.
6	Re-examine the capacity of the boiler as presently	PP submitted boiler test report with customer name "Aeon India Corporation Pvt.Ltd", stating the steam requirement for MEE is 325 Kg/Hr (+/- 10%) whereas boiler capacity is 600Kg/hr. SEAC sought clarification regarding the boiler test report submitted on the name of customer i.e. Aeon India Cooperation Pvt. Ltd.
7	Check the possibility of co-processing of Hazardous waste having high calorific value generated for cement kilns in place of dumping the same at CSTDF, Nimbua.	The calorific values of hazardous waste generated from plant is below 2500 Kcal/kg hence it cannot be used for co processing. However, Distillation sludge having a high calorific value will be used in co processing in future. PP submitted Analysis report of hazardous waste
8	CER activities shall be proposed in accordance with the provisions of the OM dated 01.05.2018 and timeline for execution of the same to be specified.	PP submitted CER activities and Budgetary provision.

9	Onsite & Offsite emergency plans and its compliance status to be submitted.	Onsite and offsite emergency plan has been prepared and submitted to Factory inspector and acknowledgment of the same was attached. SEAC was not satisfied from the reply of the project proponent as letter attached as annexure-6 addressed to the Deputy Commissioner, Tarn Taran. Moreover, the project proponent has not submitted a copies of the Onsite & Offsite emergency plans and its compliance status.
10	Copy of the NOC obtained from the Forest Department bearing signature of the issuing Authority be submitted.	PP submitted NOC obtained from the Forest Department.
11	Undertaking to the effect that no construction activity w.r.t. the proposed expansion for which this application for environmental clearance is submittedhas been carried out.	PP submitted undertaking for no construction activity
12	Northern Regional office of MoEF&CC at Chandigath be requested to re-verify the action taken by the project proponent w.r.t. the observation raised by their office in the early compliance report received from MoEF&CC and send the report at the earliest possible so that further action on the expansion application may be taken	KNPL has prepared and submitted the latest compliance report to RO MOEF Chandigarh and acknowledgement of the same has been submitted

SEAC was not satisfied from the reply given at point no 6 & 9.

It was also observed that RO MoEF&CC, Chandigarh has send the revalidated compliance report vide letter no, 5-02/2017- RO (NZ) 427-428 dated 4th December 2019, wherein it was reported that application for HSD storage license from Chief Controller of explosives has been applied but has not been granted yet.

In reply to this, the project proponent submitted a copy of License no. (P/HQ/PB/15/2017/P425070) to import and store Petroleum in an installation having permission to store Petroleum Class B in Bulk with 50KL issued by the Chief Controller of explosive, which was taken on record by SEAC.

Thereafter, SEAC raised the additional queries to the project proponent to which he replied as under: -

Sr. No	Observation raised during meeting 26.02.2020	Reply by PP
1.	Submit NOC and permission letter from PSIEC as documentary proof, regarding Quantity of water already being supplied for existing operations i.e 370 KLD & for proposed expansion i.e 522KLD within 48 hrs.	i. Project proponent submitted the acknowledgment of the application submitted to PSIEC dated 27.02.2020 with request to enhance the water supply from 370 KLD to 522 KLD. SEAC was not satisfied from the reply submitted by the project proponent as it has not obtained permission from the PSIEC. SEAC was in view that Project proponent is required to submit water connection application form along with relevant documents that have been submitted to PSIEC vide email dated 25.07.2016 In response, the project proponent requested that they will submit the application to the CGWA for the abstraction of ground. SEAC accepted the request and allow the project proponent to submit the copy of the same within 48hrs. However, project proponent submitted a copy of the online application for ground water abstraction to CGWA dated 27.02.2020 for 504 KLD total water requirement., which was found not matching with requirement of 522 KLD.
2	Explain the rain Water storage proposal along with revised Water Balance Diagram	Project proponent submitted revised Water Balance Diagram in which 25KLD water from rain water storage tank of capacity 1000 KL, was considered to reduce fresh water demand during 40 rainy days It was informed that fresh water requirement during the rainy season will be reduced to 497 KLD . However, SEAC was not satisfied from the reply due to the reason that project proponent failed to explain regarding how water demand of 522 KLD will be met except rainy days.

It was also noted that the reply submitted in response to the observation raised on 26.02.2020 under the signature of Sh. Ramandeep Singh whereas authority letter dated 21.02.2020 submitted by the promoter company, was on the name of Sh. Indernath Chatterjee. The project proponent has also failed to submit complete reply to the observation, within 48 hours as decided by the SEAC.

3.0 Recommendations

After detailed deliberations, SEAC decided to defer the case till the Project proponent submits reply to 6 & 9 of the observations raised on 11.07.2019 and 1, 2 of the observations raised on 26.02.2020.

Item No. 187.04 Application for obtaining Environmental clearance under EIA notification dated 14.09.2006 for establishment of new unit for manufacturing of Steel ingots / billets by installing induction furnaces at Village Ambey Majra, Sirhind Side, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab M/s Kanha Concast (Proposal No. SIA/PB/IND/30310/2018).

SEAC observed that:

1.0 Background

The project proponent has applied for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for establishment of new unit for manufacturing of Steel ingots / billets by installing induction furnaces at Village Ambey Majra, Sirhind Side, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab. Project Activity 3(a) & Category 'B1' as per EIA Notification, 2006.

The case was considered by SEAC in the 174th meeting held on 28.12.2018 and was forwarded to SEIAA with recommendation to grant TORs along with additional Specific TORs. Accordingly, SEIAA in its 143rd meeting held on 07.02.2019 decided to issue the TORs. In compliance to the said decision, TORs were issued to the project proponent vide letter no. SEIAA/2019/267-269 dated 22.02.2019. The public hearing was conducted by PPCB on 30.05.2019.

The project proponent submitted the EIA report. The project proponent has also deposited Rs. 2,04,700/- vide RTGS NO VIJDH19259059708 dated 16.09.2019, as fee for obtaining Environmental Clearance against the project cost of Rs. 20.47 crores.

EIA report was scrutinized and EDS was raised EDS online on 13.09.2019 and again on 22.11.2019, reply to which was submitted by the project proponent on 18.09.2019 and 25.11.2019 respectively. The project proponent has already deposited processing fees for Environmental clearance @ Rs 10,000 per crores of total project cost (20.47

Crore) i.e. Rs. 2,04,700/-through RTGS vide UTR No. VIJBH19259059708 dated 16.09.2019.

The case was placed in 185th meeting of SEAC held on 29.11.2019 and it was attended by the following:

1. Sh. Mohit Singla, Partner.
2. Dr. Sandeep Garg, MD, M/s Eco Laboratories and Consultants Pvt Ltd.

Before allowing the presentation, SEAC queried the project proponent as to whether Mandi Gobindgarh falls in the list of critically polluted areas as notified by MoEF or not. To this, the project proponent submitted that the moratorium on consideration of projects for Environmental Clearance for Mandi Gobindgarh area has been lifted on 15.02.2011 and the project can be considered for grant of Environmental Clearance.

SEAC was not satisfied with the reply submitted by the project proponent and after detailed deliberations, SEAC decided to defer the case and decided as under:

1. MoEF&CC be requested to clarify as to whether Mandi Gobindgarh and Ludhiana fall in the list of critically polluted areas or not.
2. All such cases be placed in the meeting of SEAC only after the clarification in the matter is received from the MoEF.

In compliance to the above decision, MoEF&CC has been requested vide letter no 1098 dated 04.12.2019 as to whether Mandi Gobindgarh and Ludhiana fall in the list of critically polluted areas or not. However, no reply has been received so for.

It is pertinent to mention here that present case is similar to the item no 186.10 & 186.11 of 186th meeting of SEAC held on 26.12.2019 wherein SEAC was apprised that Member Secretary, PPCB vide letter dated 38244 dated 23.12.2019, in reference to the SEIAA letter no 942 dated 05.11.2019, informed as under:

1) Hon'ble NGT in OA No. 1038/2018 titled News item published in "The Asian Age" Authored by Sanjay Kaw Titled "CPCB to rank industrial units on pollution levels" in the order dated 10.07.2019 mentioned as under: -

i) Where the CEPI score crossed 70, the areas are designated as "Critically Polluted Areas", where the CEPI score is between 60 -70, the areas are designated as "Severely Polluted Areas" &where the CEPI score is below 60, the areas are designated as "Other Polluted Areas".

ii) The CEPI score w.r.t areas of Punjab as calculated by CPCB on the basis of the monitoring done in the year 2017-18 has been mentioned as under:

i)	Jalandhar	74.76
ii)	Ludhiana	73.48
iii)	Batala	68.92
iv)	Mandi Gobindgarh	53.91

2) Further, CPCB vide letter dated 29.11.2019 addressed to the Member Secretary, PPCB regarding compliance to order dated 14.11.2019(as corrected on 19.11.2019)passed by the Hon'ble NGT in OA NO. 1038/2018, has forwarded the

details of CEPI score of Polluted Industrial Areas in Punjab based on the environmental quality monitoring data of 2017-18 with details as under:

i)	Jalandhar	74.76
ii)	Ludhiana	73.48
iii)	Batala	68.92
iv)	Mandi Gobindgarh	53.91

3) Further, CPCB vide its letter dated 25.10.2019 addressed to the worthy Chief Secretary, Punjab, has conveyed the mechanism for environmental management of Critically & Severely Polluted Areas& consideration of activities /projects in such areas in compliance to Hon'ble NGT order dated 23.08.2019 in the matter of O.A no.1038/2018. In the said letter, under Head B (ii) tilted " Consideration of proposals for grant of Environmental Clearance for new and expansion activities listed in "Red" and "Orange" categories located in Critically Polluted Area & Severely Polluted Areas, CPCB mentioned as under:-

Proposals located in CPAs and SPAs may be examined by the sectoral Expert Appraisal Committee (EAC) during scoping/appraisal based on the CEPI score of Air/Water/Land Environment as published by CPCB time to time.

In view of the above, the matter was deliberated in length and SEAC was of the opinion that

i) the Mandi Gobindgarh with revised CEPI score of 53.91, no more falls in the list of Critically Polluted Areas, as per the assessment made by the CPCB in 2017-18. Therefore, the projects of environmental clearance falling in the area of Mandi Gobindgarh be considered by the SEAC, which otherwise appraised at the Central level as B1 projects.

ii) the Jalandhar and Ludhiana with revised CEPI score of 74.76 and 73.48 respectively, falls in the list of Critically Polluted Areas, based on the assessment made by the CPCB in 2017-18. Therefore, the projects of environmental clearance falling in the area of Jalandhar and Ludhiana be appraised at the Central level as B1 projects.

2.0 Deliberations during the 187th meeting of SEAC held on 26.02.2020

In view of the above opinion of SEAC, the case was placed in 187th meeting of SEAC held on 26.02.2020 and it was attended by the following:

i) Sh. Mohit Singla, Partner.
ii) Ms. Simranjit Kaur & Ms. Priyanka Madan, Environmental Consultant from M/s Eco Laboratories and Consultants Pvt Ltd.

Before allowing the project proponent to present salient feature of the project, to a query of SEAC, project proponent informed that project falls within the 5.0 Km radius from the boundary of MC Limit/ Critically Polluted Area of Mandi Gobindgarh. But , now CEPI Score of Mandi Gobindgarh has been reduced form 75.08 to 53.91, which indicates that Mandi Gobindgarh no more falls in the list of Critically Polluted. Thereafter, Environmental Consultant presented the salient features of the project as under:-

<table>
<tr><th>Sr. No.</th><th>Item</th><th>Details</th></tr>
<tr><td>1.</td><td>Online Proposal No.</td><td>SIA/PB/IND/30310/2018</td></tr>
<tr><td>2.</td><td>Name and Location of the project</td><td>Steel Manufacturing Unit namely "Kanha Concast" located at Village AmbeyMajra, Chatarpura Road, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab by M/s Kanha Concast.</td></tr>
<tr><td>3.</td><td>Latitude & Longitude</td><td>A: 30°38'28.37"N and 76°18'44.46"E
B: 30°38'25.43"N and 76°18'44.42"E
C: 30°38'25.39"N and 76°18'48.85"E
D: 30°38'25.43"N and 76°18'49.31"E
E: 30°38'28.38"N and 76°18'49.45"E</td></tr>
<tr><td>4.</td><td>Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006</td><td>The project falls under Schedule 3(a): Metallurgical Industries (ferrous & non ferrous)</td></tr>
<tr><td>5.</td><td>Whether the project is in critical polluted area or not.</td><td>PPCB vide letter no.4023 dated 21.11.2019 informed that as per the report submitted by CPCB in NGT, CEPI score of Mandi Gobindgarh was mentioned as 53.91, which falls under the category of "other polluted area" (having CEPI score below 60).</td></tr>
<tr><td>6.</td><td>Does the project involve diversion of forest land.</td><td>No.</td></tr>
<tr><td>7.</td><td>Classification/Land use pattern as per Master Plan</td><td>Industrial</td></tr>
<tr><td>8.</td><td>Cost of the project</td><td>Rs. 20.47 Crores</td></tr>
<tr><td>9.</td><td>Total Plot area, Built- up Area and Green area</td><td>The area details of the project is as under:
<table>
<tr><td>Description</td><td>Total (sqm.)</td></tr>
<tr><td>Total area</td><td>12,293.21 (3.03 acres)</td></tr>
<tr><td>Shed covered area</td><td>3,537.748 sq.m.</td></tr>
<tr><td>Green Area</td><td>4,055.961 sq.m.</td></tr>
</table></td></tr>
<tr><td>10.</td><td>Population (when fully operational)</td><td>Manpower will be 150 persons including both technical& non-technical; out of which, 20 will be residing within the project premises.</td></tr>
<tr><td>11.</td><td>Water Requirements & source in Construction Phase</td><td>10 KLD of water will be required during construction phase which will be met by private water tanker.</td></tr>
<tr><td>12.</td><td colspan="2">Break up of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):
Total water requirement for the project will be 58.5 KLD; out of which fresh water requirement will be 51.5. KLD. Break-up of the same is given below:</td></tr>
</table>

S. No.	Description	Water demand (KLD)
1.	Cooling water demand	28
2.	Domestic water demand	8.5
3.	Green water demand	22
Total		**58.5**

S.No.	Description	Source of water
1.	Domestic	Ground water
2.	Make-up water demand for cooling	Ground water & treated water
3.	Flushing purposes	Nil
4.	Green area water demand	Ground water
5.	HVAC	-

13.	Treatment & Disposal arrangements of waste water in Construction Phase	Septic tank For plantation on existing green area
14.	Disposal Arrangement of Waste water in Operation Phase	Approximately, 7 KLD of domestic effluent will be generated from the proposed industrial unit which will be treated in the proposed STP of capacity 10 KLD installed within the project premises. Further, no industrial effluent will be generated from the proposed industrial unit.
15.	Rain water recharging detail	Internally no rain water recharging pit has been proposed. Thus, rain water recharging will be done by adoption of pond in the same assessment unit. As the project falls in over-exploited zone, thus, the quantity of recharging will be double of the ground water withdrawal. Thus, artificial rain water recharging has been proposed outside the project by adopting the pond located in the Village Roorki of Sirhind block. Thus, 36,422 m^3 per annum of water will be required to recharge against the ground water withdrawal of 51.5 KLD considering 350 operational days.
16.	Solid waste generation and its disposal	The solid water details is given below: i) Approximately, 34 kg/day of domestic solid waste will be generated from the industrial unit and it will be disposed off as per Solid Waste Management Rules, 2016. ii) 11 TPD of slag will be generated from manufacturing unit. 50% recovery of metal will be done from slag

<table>
<tr><td></td><td></td><td>within the project premises & thereafter remaining 5.5 TPD slag will be sold to Ashutosh Batish Government Contractors for manufacturing of interlocking tiles.</td></tr>
<tr><td>17.</td><td>Hazardous Waste & E- Waste</td><td>The details of the hazardous waste generated is given below:
<table>
<tr><th>S. No.</th><th>Description</th><th>Proposed Quantity</th></tr>
<tr><td>1.</td><td>Cat. 35.1 – Exhaust air or Gas cleaning Residue</td><td>0.9 TPD</td></tr>
<tr><td>2.</td><td>Cat. 5.1 – Used Oil</td><td>0.3 KL/annum</td></tr>
</table>
a) Agreement will be done with M/s Madhav Alloys Pvt. Ltd. for disposal of APCD dust.
b) Spent oil will be sold to authorized vendor.</td></tr>
<tr><td>18.</td><td>Energy Requirements & Saving</td><td>The details of the energy is given below:
<table>
<tr><td>S. No.</td><td>Description</td><td>Proposed</td></tr>
<tr><td>1.</td><td>Power load</td><td>10,000 KW</td></tr>
<tr><td>2.</td><td>D.G sets</td><td>2 DG sets of 160 KVA & 200 KVA capacity respectively</td></tr>
</table>
<u>Energy Saving measures:</u>
a) LEDs will be used in place of CFL
b) Energy Efficient Induction Furnaces will be installed</td></tr>
<tr><td>19.</td><td>Environment Management Plan along with Budgetary break up phase wise And responsibilityto implement</td><td>During construction phase, Rs. 71 lakhs will be allocated for implementation of EMP.
During operation phase, Rs. 11.5 lakhs will be allocated as recurring cost for EMP.
<table>
<tr><td>Description</td><td>Capital cost (lakhs)</td><td>Recurring cost (lakhs)</td><td>Monitoring of Air, Noise, water (per annum) Rs.</td></tr>
<tr><td>Construction</td><td>71</td><td>-</td><td>3</td></tr>
<tr><td>Operation</td><td>-</td><td>11.5</td><td>5</td></tr>
</table></td></tr>
<tr><td>20.</td><td colspan="2">CER activities along with budgetary break up and responsibility to implement</td></tr>
<tr><td colspan="3">Mr. Mohit Singla (Partner) of M/s Kanha Concast will be responsible for implementation of CER (Corporate Environment Responsibility). The cost of proposed project is Rs. 20.47 Crores. Thus, Rs. 41 lakhs (@ 2% of Investment cost) is required for C.E.R activities as per Office Memorandum vide F.No. 22-65/ 2017-IA.III dated 01.05.2018. Details of CER activities are given below:
<table>
<tr><td rowspan="2">Sr. No.</td><td rowspan="2">CER Activities</td><td rowspan="2">Fund allocated (Lakhs)</td><td colspan="2">Time schedule</td></tr>
<tr><td>Start</td><td>Completed</td></tr>
</table></td></tr>
</table>

	1.	Adoption of Govt. Secondary School, Village Chatarpura, Mandi Gobindgarh improve its education quality and infrastructure in the form of library, solar system, drinking water RO system, washrooms& Badminton court, etc.	30	After Grant of EC	1 year
	2.	Providing medicines to Health Center in Village AmbayMajra & Civil Hospital, Mandi Gobindgarh	11	After Grant of EC	1 year
		Total	41		

3.0 Recommendations

After detailed deliberations, SEAC decided to defer the case till the project proponent submits reply to the following observations: -

i) Submit the revised proposal on pond recharging well w.r.t. CGWA guidelines including Phytorid wastewater treatment technology.
ii) Submit the revised water balance diagram for Green area w.r.t. summer, winter and rainy season. Also indicate the source of water requirement for Green plantation.
iii) Submit slag utilization certificate (11 TPD) along with process details of interlocking tiles manufacturing unit & its capacity of slag utilization.
iv) Submit revised Mass Balance clearly mentioning the Qty of additional Ingots/Billets to be purchased from local market & Ingots produced from Induction Furnace in rolling mill.
v) Submit revised CER activities as per the OM dated 01.05.2018 alongwith NOC from School Principal/Sarpanch.
vi) Submit cost of APCD for 24 TPH Induction Furnace & rolling mill based upon the Quotation from reputed vendor & accordingly either submit revised project cost & balance fee or justification for "no increase" in the project cost.
vii) Submit detail calculation of the green area to be developed (block wise) and no. of plants to be planted.
viii) Submit details of parking area provided and mention it on layout with legend.
ix) Submit attested copies of results of Ground Water Samples as it was informed that there is typing error in the presentation.

Item no. 187.05: Regarding personal hearing given by the Chairman of the Board to the petitioners in compliance of the orders of the Hon'ble Punjab & Haryana High Court in CWP No. 13814 of 2018 dated 29.05.2018 against the setting up of Common Bio-Medical Waste Treatment Facility M/s Med-waste Solutions Pvt. Ltd. at Village Biodwali, Teh. Gidderbaha, Sri Muktsar sahib on 18.10.2018.

SEAC observed as under:

1.0 Background

Member Secretary, Punjab Pollution Control Board vide letter no. 1659 dated 14/05/2019 received on 01.07.2019 through the office of Department of Science, Technology and Environment vide no. 1509455/1 dated 26.06.2019 has requested to evaluate/examine as to whether the earlier objections raised by the respective Gram Panchayats (which are already a part of the public hearing proceedings dated 21.02.2018) as well as objections raised by the petitioners before Chairman, PPCB during the hearing held on 18.10.2018 and the grievances raised stand addressed while appraising the project and deciding EC application. The contents of the aforesaid letter are reproduced as under:

" It is intimated that earlier M/s Med-waste Solutions Pvt. Ltd. was setting up a Common Bio-medical Waste Treatment Facility at village Bidowali, Tehsil Gidderbaha, Distt. Sri Muktsar Sahib. Accordingly, they had applied for obtaining Environmental Clearance to SEIAA, Punjab as required under the EIA notification dated 14.09.2006 for establishment of Common Bio-medical Waste Treatment Facility. As per the provisions of the EIA notification dated 14.09.2006, the public hearing for setting up of the facility was conducted by PPCB on 21.02.2018. The public hearing of the said project was supervised and presided over by the Additional Deputy Commissioner (Development), Sri Muktsar Sahib. The proceedings of the public hearing were issued vide letter no. EE(Mega)/2018/9115 dated 21.03.2018.

Thereafter, Environmental Clearance was granted to the project proponent for establishment of Common Bio-medical Waste Treatment Facility in the revenue estate of village Bidowali, Tehsil Gidderbaha, Distt. Sri Muktsar Sahib by State Level Environment Impact Authority, Punjab vide letter no. SEIAA/2018/878 dated 16.07.2018 subject to certain conditions.

Subsequently, a court case was filed by the local residents of village Bidowali, village Lalbai, village Chanu against the setting up of the common bio-medical waste treatment facility by M/s Med-waste Solutions Pvt. Ltd., Gidderbaha, Sri Muktsar Sahib in Hon'ble Punjab and Haryana High Court. The said petition was disposed off by the Hon'ble Punjab and Haryana High Court on 29.05.2018 with the directions as under

"In the light of the limited prayer raised by learned counsel, the instant writ petition is disposed of with a direction to respondent no.2 (PPCB) to consider the objections dated 4.2.2018 on merits as also to afford to the petitioners herein and respondent no.4 (M/s Med-waste Solutions Pvt. Ltd.) a hearing at the Head Office of the Punjab Pollution Control Board at Patiala or at the Regional Office situated at Bathinda".

In compliance of the decisions of the Hon'ble Punjab & High Court, 4 representatives of the petitioners of the case, Sh. Ajaib Singh s/o Sh. Jarnail Singh, Gram Panchayat Biddowali, Sh. Balwinder Singh s/o Sh. Harbans Singh, Gram Panchayat Lalbai, Sh. Lachman Singh s/o Sh. Chand Singh , Gram Panchayat Lalbai and Sh. Bhupinder Singh s/o Ghan Singh, Gram Panchayat Chanu were afforded an opportunity of personal hearing before Chairman, PPCB on 18.10.2018.

During the hearing, the representatives of village Biddowali, Lalbai and Chanu submitted they are facing lot of problems due to black smoke emitted by M/s Universal Bio-mass Plant, Village Channu, Tehsil Gidderbaha, Distt. Sri Muktsar Sahib which is adjoining to proposed site of common bio-medical waste facility. Setting up of a common bio-medical waste facility in its close proximity will add to their problems. Further, the petitioners submitted that there are 2 farm houses of some persons at a distance of 300 m and 4 farm houses at a distance of 533 m. The petitioners submitted that they were not heard during the public hearing held on 21.02.2018. Copy of the representation given by the petitioners is enclosed herewith.

After hearing the matter, Chairman, PPCB decided that the representation of the petitioners in CWP No. 13814 of 2018 along with orders of Hon'ble Punjab & Haryana High Court dated 29.05.2018 shall be forwarded to SEIAA, Punjab for necessary action in the matter.

Accordingly, in compliance of decision of personal hearing dated 29.05.2018, it was requested vide PPCB letter no. 7820 dated 05.11.2018 to take further necessary action in the matter. In response, SEIAA, Punjab vide its letter no. 144 dated 24.01.2019 intimated that the matter was considered by SEIAA in its 141th meeting held on 24.12.2018 and after detailed deliberations, SEIAA concluded as under:

a. As per the provisions of EIA notification dated 14.09.2006, Public hearing of M/s Medwaste Solutions Pvt. Ltd has been carried out by the Punjab Pollution Control Board. On the basis of the proceedings issued by the PPCB and Terms of Reference issued by SEIAA, M/s Medwaste Solutions Pvt. Ltd has submitted its final EIA report to SEIAA. After thorough appraisal of the EIA report, SEAC recommended the case for grant of environmental clearance for the setting up of CBWTF in the revenue estate of Village Bidowali, Tehsil Gidderbaha, District Sri Muktsar Sahib. Accordingly, SEIAA granted the environmental clearance to the M/s Medwaste Solutions Pvt. Ltd vide letter no. 878 dated 16.07.2018.
b. The Hon'ble Punjab & Haryana High Court, Chandigarh has issued directions to Respondent no.2 i.e. Punjab Pollution Control Board to afford a hearing to the petitioners as well as Respondent no.4. No directions have been issued to SEIAA by the Hon'ble Court in the said case. Moreover, PPCB has sent a copy of the orders dated 29.05.2018 of Hon'ble High Court on 05.11.2018, at the stage, when the environmental clearance was already granted to the M/s Medwaste Solutions Pvt. Ltd on 16.07.2018 by the SEIAA, Punjab.
c. At the very outset, in the resolution dated 04.02.2018, the Petitioners have mentioned that their grievance is about the air pollution caused by the industry namely M/s Universal Bio-mass Plant, Village Channu, Tehsil Gidderbaha, District Sri Muktsar Sahib, which is in operation. Environment clearance to this industry has already been granted by SEIAA vide no. 21361 dated 22.06.2009. Monitoring of the implementation of the environment clearance conditions has also been assigned to

Punjab Pollution Control Board by the State Government vide memo no. 10/167/2014-STE (5)/302633/1 dated 08.09.2014.

d. M/s Medwaste Solutions Pvt. Ltd is still in process of setting up of plant and is yet not operational.

The CBWTF has now become operational and Consents under Air & Water Act and authorization under Bio-Medical Waste Management Rules, 2016 has been granted to the facility by the Board.

PPCB in compliance of the Hon'ble High Court orders had already heard the respondent no. 4 (project proponent) on 13.09.2018 and the petitioners on 18.10.2018. Further, EE(Mega) vide its letter no. 13199 dated 24.04.2019 intimated that proper procedure was adopted while conducting the public hearing on 21.02.2018. Further, the resolution submitted by the nearby Gram Panchayats including that from village Lalbai, Rai ke Kalan, Lalbai (Uttri), Bedowali & Channu were incorporated in the proceedings of the public hearing conducted by PPCB and sent to SEIAA, Punjab.

It is therefore requested to evaluate/examine as to whether the earlier objections raised by the respective Gram Panchayats(which are already a part of the public hearing proceedings dated 21.02.2018) as well as objections raised by the petitioners before Chairman, PPCB during the hearing held on 18.10.2018 and the grievances raised stand addressed while appraising the project and deciding EC application."

The matter was considered by SEIAA in its 149th meeting held on 05.07.2019. SEIAA was apprised as described above. After deliberation, SEIAA decided that a copy of the Board's letter no. 1659 dated 14/05/2019 received on 01.07.2019 through the office of S.T.E, Govt. of Punjab vide no. 1509455/1 dated 26.06.2019, be forwarded to SEAC for evaluating / examining as to whether the earlier objections raised by the respective Gram Panchayats (which are already a part of the public hearing proceedings dated 21.02.2018), objections raised by the petitioners in the hearing held on 18.10.2018 before Chairman of the Board (wherein petitioner informed that they were not heard during Public hearing held on 21.02.2018) stand addressed while appraising the project and recommended the EC application.

The matter was considered in 185th meeting of SEAC held on 29.11.2019. During meeting, the matter was discussed at length. After detailed deliberation, it was decided that detailed agenda note for the next meeting be prepared based upon the record file and be circulated to all SEAC members alongwith the relevant documents, well before the next meeting.

In compliance to the above said decision, it is submitted that the matter was appraised by the SEAC in item no 166.21 of 166th meeting held on 24.05.2018 where in project proponent present his EIA report. A copy the extract pertaining to the item no 166.21 was attached as Annexure- D of the said meeting.

The relevant part of the extract related to the public hearing is reproduced as under: -

"The public hearing was conducted on 21.02.2018 by the Punjab Pollution Control Board in compliance to the provisions of the EIA Notification, 14.09.2006. The Member Secretary, Punjab Pollution Control Board vide letter no. EE(Mega)/2018/9115 dated 21.03.2018 sent the proceedings of the public hearing for taking further necessary action in the matter.

The project proponent submitted final EIA report on 17/04/2018 which includes the clarification of the project proponent in reference to the information sought by the persons present at the venue of hearing."

During the meeting, the project proponent presented the salient features of the project which includes the reply of query sought by person present at the venue of hearing and Contents of the presentation related to the public hearing were attached as Annexure-E of the agenda of the said meeting.

A copy of the proceeding of public hearing conducted on 21.02.2018 along with written representation from the various villages sent by the PPCB in connection with the application filed by the project proponent for obtaining environmental clearance as required under the EIA notification, 14.09.2006 is attached as Annexure-F of the agenda of the said meeting.

It is further submitted that written representations sent by the Board along with proceedings of the public hearing perused and observed that complainants had raised the issue regarding problem caused by setting up of common Bio- medical waste treatment facility (BBWTFs) will be similar in nature which is due to the setting up of the Bio Mass plant without notifying the resident of the locality due to which there is possible of outbreak of epidemic causing other heath disease that will affect the health of residents. The Complainant also submitted that they were facing lot of problems due to black smoke emitted by M/s Universal bio-mass Plant, Village Channu, Tehsil Gidderbaha, Distt. Sri Muktsar Sahib which is adjoining to proposed site of common bio-medical waste facility. Setting up of a common bio-medical waste facility in its close proximity will add to their problems. Further, the petitioners submitted that there are 2 farm houses of some persons at a distance of 300 m and 4 farm houses at a distance of 533 m. Also, they were not heard during the public hearing held on 21.02.2018.

In this regard, it is relevant to mention here that the project proponent has proposed various measures to control the air, water pollution and detail Environment Management Plan, was perused and found adequate which address the problems mentioned in the written presentation submitted by complainant.

Thus, from above, it may be concluded that earlier objections raised by the respective Gram Panchayats (which are already a part of the public hearing proceedings dated 21.02.2018), objections raised by the petitioners in the hearing held on 18.10.2018 before Chairman of the Board (wherein petitioner informed that they were not heard

during Public hearing held on 21.02.2018) stand addressed by the SEAC while appraising the project and recommended the EC application to the SEIAA.

The matter was considered by SEAC in its 187th meeting held on 26.02.2020. SEAC examined the written representations made by the complainant and observed that the complaints are related to the air pollution problems being caused by a bio-mass plant namely M/s Universal bio-mass Plant, Village Channu, Tehsil Gidderbaha, Distt. Sri Muktsar Sahib, which is adjoining to proposed site of common bio-medical waste facility. The concern of the complainants is that the pollution will increase in the area due to setting up of new biomedical facility.

SEAC observed that the case for obtaining Environmental Clearance of the facility, was recommended to SEIAA only after going through the proposed measures to be taken by project proponent for control of Air pollution and Water pollution. Thus, all the issues raised in the representation made by the complainants, stand already addressed by the SEAC and proper procedure has been followed while recommending the case to SEIAA for grant of Environmental Clearance.

After detailed deliberation, SEAC decided to recommended SEIAA as under :

i) PPCB may be informed that earlier objections raised by the respective Gram Panchayats (which are already a part of the public hearing proceedings dated 21.02.2018), objections raised by the petitioners in the hearing held on 18.10.2018 before Chairman of the Board stand addressed while appraising the project and recommended the EC application.

ii) PPCB be requested to carry out the detail investigation of the surrounding areas w.r.t PM_{10} and $PM_{2.5}$ including the stack monitoring of the both the industry namely M/s Universal bio-mass Plant and M/s Med Waste Solution Private Ltd. and submit the detail investigation report including the comments on the adequacy of the APCD installed by them.

Item No. 187.06: Application for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion of Steel Manufacturing Unit namely "M/s Taksus Steels Pvt. Ltd." at Bhadla Road, 66 KVA Sub Station, Near Grain Market, Distt. Fatehgarh Sahib, Punjab (Proposal no SIA/PB/IND/22234/ 2018)

SEAC observed that :

1.0 Background

The project proponent has applied for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for increasing the production capacity from 78 TPD to 250TPD for manufacturing of Steel ingots / billets by installing induction furnaces at at

Bhadla Road, near 66 KVA Substation, Grain Market, Mandi Gobindgarh, Fatehgarh Sahib, Punjab. Project is covered under Activity 3(a) & Category 'B1' as per EIA Notification, 2006.

The case was considered by SEAC in the 163rd meeting held on 13.03.2018 and was forwarded to SEIAA with recommendation to grant TORs alongwith Specific TORs. Accordingly, SEIAA in its 129th meeting held on 23.03.2018 decided to issue the TORs. In compliance to the said decision, TORs were issued to the project proponent vide letter no. SEIAA/2019/533 dated 10.04.2018. The public hearing was conducted by PPCB on 09.11.2018.
The application for obtaining EC was submitted online on 12.06.2019 before the date of notification dated 27.06.2019 and thus the fee for obtaining EC is not applicable on the project. EIA report was scrutinized on 06.05.2019 to which project proponent replied on 12.06.2019. The said reply was taken on record.

The case was placed before the SEAC in its 182nd meeting held on 03.08.2019. However, the application could not be taken up due to paucity of time. SEAC decided to defer the case and decided to place the application in the next meeting of SEAC on priority basis.

The case was placed before the SEAC in its 184th meeting held on 21.09.2019.The meeting was attended by the Director of the promoter company & Environmental Consultant. SEAC was apprised as under :-

i) Public hearing for the expansion of production capacity from 78 TPD to 250 TPD of Steel Ingots was conducted within the premises on 09.11.2018 by PPCB. SEAC looked into various queries raised by the people present at the time of public hearing and was satisfied with the reply given by the project proponent.

ii) SEAC enquired whether the project site falls in Mandi Gobindgarh notified as critically polluted area by MoEF&CC, Govt of India? The project proponent submitted that the site falls within 5 km of Mandi Gobindgarh which is not critically polluted area. SEAC asked the project proponent to submit the proof of the same to substantiate his claim. However, the project proponent could not show any such proof/notification issued by the MoEF&CC, Govt of India in this regard.

iii) The project proponent requested the Committee to give him some time to submit the proof.

After detailed deliberations, SEAC decided to defer the project till the time the project proponent submit the proof that the project site does not fall in the critically polluted area of Mandi Gobindgarh.

It is pertinent to mention here that present case is similar to the item no 186.10 & 186.11 of 186th meeting of SEAC held on 26.12.2019 wherein SEAC was apprised that Member Secretary, PPCB vide letter dated 38244 dated 23.12.2019, in reference to the SEIAA letter no 942 dated 05.11.2019, informed as under:

1) Hon'ble NGT in OA No. 1038/2018 titled"News item published in "The Asian Age" Authored by Sanjay Kaw Titled "CPCB to rank industrial units on pollution levels" in the order dated 10.07.2019 mentioned as under: -
   i) Where the CEPI score crossed 70, the areas are designated as "Critically Polluted Areas", where the CEPI score is between 60 -70, the areas are designated as "Severely Polluted Areas" &where the CEPI score is below 60, the areasaredesignatedas "OtherPollutedAreas".
   ii) The CEPI score w.r.t areas of Punjabas calculatedby CPCBon the basis of the monitoring done in the year 2017-18 has been mentioned as under:
      a) Jalandhar 74.76
      b) Ludhiana 73.48
      c) Batala 68.92
      d) Mandi Gobindgarh 53.91

2) Further, CPCB vide letter dated 29.11.2019 addressed to the Member Secretary, PPCB regarding compliance to order dated 14.11.2019(as corrected on 19.11.2019)passed by the Hon'ble NGT in OA NO. 1038/2018,has forwarded the details of CEPI score of Polluted Industrial Areas in Punjab based on the environmental quality monitoring data of 2017-18 with details as under:
   a) Jalandhar 74.76
   b) Ludhiana 73.48
   c) Batala 68.92
   d) Mandi Gobindgarh 53.91

3) Further, CPCB vide its letter dated 25.10.2019 addressed to the worthy Chief Secretary, Punjab, has conveyedthemechanismforenvironmental management of Critically & Severely Polluted Areas& consideration of activities /projects in suchareas in compliance to Hon'ble NGT order dated 23.08.2019 in the matterofO.A no.1038/2018. In the said letter, under Head B (ii) tilted " Consideration of proposals for grant of Environmental Clearance for new and expansion activities listed in "Red" and "Orange" categories located in Critically Polluted Area & Severely PollutedAreas, CPCB mentioned as under:-

   Proposals located in CPAs and SPAs may be examined by the sectoral Expert Appraisal Committee (EAC) during scoping/appraisal based on the CEPI score of Air/Water/Land Environment as published by CPCB time to time.

In view of the above, the matter was deliberated in length and SEAC was of the opinion that

   i) the Mandi Gobindgarh with revised CEPI score of 53.91, no more falls in the list of Critically Polluted Areas, as per the assessment made by the CPCB in 2017-18. Therefore, the projects of environmental clearance falling in the area of Mandi

Gobindgarh be considered by the SEAC, which otherwise appraised at the Central level as B1 projects.

ii) the Jalandhar and Ludhiana with revised CEPI score of 74.76 and 73.48 respectively, falls in the list of Critically Polluted Areas, based on the assessment made by the CPCB in 2017-18. Therefore, the projects of environmental clearance falling in the area of Jalandhar and Ludhiana be appraised at the Central level as B1 projects.

2.0 Deliberations during the 187th meeting of SEAC held on 26.02.2020

In view of the above opinion of SEAC, the case was again placed in 187th meeting of SEAC held on 26.02.2020 and it was attended by the following:

1. Sh. Mohit Singla, Partner.
2. Ms. Simranjit Kaur & Ms. Priyanka Madan, Environmental Consultant from M/s Eco Laboratories and Consultants Pvt Ltd.

Before allowing the project proponent to present salient feature of the project, to a query of SEAC, project proponent informed that project falls within the 5.0 Km radius from the boundary of MC Limit/ Critically Polluted Area of Mandi Gobindarh. But, now CEPI Score of Mandi Gobindarh has been reduced form 75.08 to 53.91, which indicates that Mandi Gobindarh no more falls in the list of Critically Polluted.

SEAC allowed the Project Proponent to present the salient features of the project and he presented the salient features of the project as under:-

<table>
<tr><td>1.</td><td>Name and Location of the project</td><td colspan="4">M/s Taksus Steels Pvt. Ltd.
located at Bhadla Road, 66 KVA Substation, near Grain Market, Mandi Gobindgarh, Fatehgarh Sahib, Punjab</td></tr>
<tr><td>2.</td><td>Nature of project (Fresh / Expansion Amendment / Others)</td><td colspan="4">Expansion</td></tr>
<tr><td>3.</td><td>a) Category
b) Activity
(As per schedule appended to EIA Notification, 2006 as amended time to time.)</td><td colspan="4">a) B-1
b) 3(a)
Metallurgical Industries
(Ferrous & Non-Ferrous Alloys).</td></tr>
<tr><td rowspan="3">4.</td><td colspan="5">Area Details</td></tr>
<tr><td>Details</td><td>Existing</td><td colspan="2">Additional Land</td><td>After Expansion</td></tr>
<tr><td>Plot Area</td><td>7,944.88 sq.m.</td><td colspan="2">---</td><td>7,944.88 sq.m.</td></tr>
<tr><td colspan="2">Co-ordinates of the project site</td><td colspan="3">Latitude: -
30°40'45.88"N, 30°40'45.18"N
30°40'42.59"N, 30°40'43.38"N
Longitude: -
76°17'49.55"E, 76°17'52.28"E,
76°17'49.03"E, 76°17'16.54"E</td></tr>
<tr><td>5</td><td>Classification/Land Use as per Master Plan</td><td colspan="3">Project is located within the Industrial zone as per Master plan of Mandi</td></tr>
</table>

		Gobindgarh
6	Project Cost (After expansion)	Rs. 10.34 Crores
7	Environmental Clearance fee	Not appliable at the time of application
8	Raw Material requirement	The detail is as under: -

9

Raw Materials	Existing (TPD)	Additional (TPD)	Total (TPD)
i) Scrap	47	143	190
ii) Alloy Scrap	33	51.5	84.5
iii) Ferro Alloys	0.2	0.3	0.5

10 Production Capacity — The detail is as under:-

Product Name	Existing	Additional	Total
Steel Ingots	27300 TPA i.e 78 TPD	60200 TPA i.e 172 TPD	87500 TPA i.e 250 TPD

11 Details of major productive machinery/plant

S. No.	Equipment's / Machinery	Existing	Proposed	After Expansion
1.	Induction Furnaces	6 TPH	2 x 8 TPH	2 x 8 TPH
2.	D.G sets	75 kVA – 01 No.	NIL	75 kVA – 01 No.

12	Manpower (after expansion)	80 persons
13.	Water Requirements & its source (After expansion)	Total Water Demand: 34 KLD i) Domestic: 8 KLD ii) Cooling: 11 KLD (make up water) iii) Green: 15 KLD Source: Existing Borewell and MC supply

14. Details of Effluent (After expansion)

Sr. No.	Details	Quantity (After Expansion)	Remarks
i)	Industrial Effluent	Nil	No industrial effluent generated.
ii)	Domestic Effluent.	6.2 KLD	Wastewater generated from the project will be treated in the STP of capacity 10 KLD and same shall be utilized to meet cooling water demand.

Sr No.	Season	Green Area water Demand In KLD	Source of water
1	Summer	15	MC supply

	2	Winter	5	MC supply
	3	Rainy	1	MC supply
	As per NOC issued by the MC vide letter no. 655 dated 18.02.2019, 20KLD of water will be provided for domestic and landscaping purposes.			

15. Details of Emissions (After expansion)

Sr. No.	Source	Capacity	Chimney Height (m)	Air Pollution Control Device
i)	Induction Furnace	2 x 8 TPH each	22 m each	Side suction Hood followed by Pulse jet Bag Filter
ii)	DG sets	75 KVA	h+ 2.0 m	Equipped with Canopy

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

Sr. No.	Hazardous Waste Category	Quantity (After expansion)	Disposal
i)	Cat.35.1 – Exhaust air or Gas cleaning Residue	0.7 TPD (or 245 TPA)	Agreement done with M/s Madhav Alloys Pvt. Ltd.
ii)	Cat.5.1 – Used Oil	0.064 KL per annum	Sold to Authorized vendor

17 Solid waste generation and its disposal (After expansion)

Sr. No.	Solid Waste	Quantity (After Expansion)	Disposal
(i)	Slag	10.55 TPD	After metal recovery, remaining slag of 8.44 MT/ day will be sold to M/s Ashutosh Batish Government Contractors

18	Energy Requirements (After expansion)	i) Power load: 8,000 KVA through PSPCL. ii) Single silent DG set of capacity 75 KVA as stand-by arrangement.
19	Rain Water Harvesting	About 20,234 KL rain water will be recharged through village pond of Dadheri

20 Environment Management Plan

Environment Management Cell (EMC) shall be responsible for implementation of EMP which consists of Director of the company, representative of management, process in-charge, in-charge maintenance and a representative of environmental consultant. The budgetary requirement for implementation of EMP is as under: -

Sr. No	Environmental Protection Measures	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
1.	Air Pollution Control (Installation ofAPCD)	80	1
2.	Noise Pollution Control (Including cost of landscaping & green belt)	5	1.5
3.	Solid Waste Management	3	1
4.	Water Pollution Control (STP)	20	2.5
5.	Environment Monitoring & Management	3	5
6.	Health, Safety & Risk Assessment	3	0.5

	7.	Rain Water Recharging outside the project premises	1.5	1
	8.	Miscellaneous	1	0.5
		Total	116.5	13.0

21	CER activities along with budgetary break up and responsibility to implement	Mr. Harish Singla (Director) of M/s Taksus Steels Pvt. Ltd. will be responsible for implementation of CER within 1 year of time. The details of CER activities is as under:-

S.No.	Activity	Environment Aspect	Cost (Rs. Lac)	Period of Completion
1.	Education (Govt. High School at Village Nasrali) • Maintenance of building. • Providing drinking water cooler facility • Providing solar panels on roof top	Education	10.40	One year
Total			10.40 Lacs	

SEAC raised the following queries to the project proponent to which he replied as under:-

Sr. No.	Observations	Reply
1	Submit the undertaking that ground water from existing borewell will not be used proposed expansion in industrial use and water supply from MC will only be used for domestic and green area demand only.	The project proponent submitted an undertaking to the effect that the ground water from the existing borewell will not be used for proposed industrial use. MC Gobindgarh water supply will be used for domestic and landscaping purpose. A letter dated 18.02.2019 issued by MC regarding supply of water supply, was taken on record by SEAC.
2	The project proponent was asked to submit the revised Slag utilization certificate/Agreement with M/s Ashutosh Batish (Govt. Cont.).	The project proponent submitted an agreement made with M/s Ashutosh Batish (Govt. Cont. , which was taken on record by the SEAC for five years. M/s Ashutosh Batish (Govt. Cont.) having its office at village- Harbanspura, Sirhind, Punjab involved in the business of manufacturing of 60,00,000 interlocked tiles/annum, having slag utilization capacity of 500 T/month and agree to take 255 MT slag per month
3	Submit the revised water balance diagram for Green	Sr. No. | Season | Green area water | Source of water

<table>
<tr><td></td><td>area w.r.t. summer, winter and rainy season</td><td>
<table>
<tr><td></td><td></td><td>demand in KLD</td><td></td></tr>
<tr><td>1</td><td>Summer</td><td>15</td><td rowspan="3">MC Mandi Gobindgarh water supply for domestic & Green area water demand</td></tr>
<tr><td>2</td><td>Winter</td><td>5.0</td></tr>
<tr><td>3</td><td>Rainy</td><td>1.0</td></tr>
</table>
</td></tr>
<tr><td>4</td><td>Submit the Parking area calculation including Transporting area, no. of trucks required as per production capacity etc</td><td>The project proponent submitted that as per the layout plan, truck parking area is 3290 Sq.ft and 08 nos trucks can be parked inside the shed for loading/uploading. Additional 05 trucks can be parked inside the shed for loading/unloading. Thus, at any time 13 trucks can be parked inside the premises which is more than the required parking i.e 3 trucks per hours or 28 Trucks/day</td></tr>
<tr><td>5</td><td>Submit revised Mass Balance Diagram</td><td>The project proponent submitted the revised Mass Balance Diagram, which was taken on record by the SEAC. SEAC observed that 0.7 TPD APCD dust will be sold the M/s Madhav Alloys Pvt. Ltd, 8.44 TPD slag will be disposed through M/s Ashutosh Batish Government Contractor</td></tr>
<tr><td>6</td><td colspan="2">Submit revised CER activities as per the OM dated 01.05.2018 and NOC from scl Principal for proposed CER activities
The project proponent submitted revised CER as per the OM dated 01.05.2018 along with NOC from Principal of S.N.A.S Sr.Sec. School, Modi Mill Road, Mandi Gobingarh as under:-
<table>
<tr><th>Sr. No</th><th>Activities</th><th>Total Expenditure</th><th>Time line</th><th>Total Expenditure</th></tr>
<tr><td>1.</td><td>• Maintenance of Building
• Providing drinking water cooler facility
• Providing solar panels on roof top</td><td>Rs.10.40 Lacs</td><td>1 Year</td><td>Rs.10.40 Lacs</td></tr>
</table>
</td></tr>
</table>

3.0 Recommendations

SEAC recommended the case for grant of environmental clearance for expansion of its existing unit located in the revenue estate of Bhadla Road, 66 KVA Substation, near Grain Market, Mandi Gobindgarh, District Fatehgarh Sahib, Punjab by M/s Taksus Steels Pvt. Ltd. as per the details mentioned in the EIA study & subsequent presentation / clarifications made by the project proponent and his consultant with aforesaid salient features and conditions as under:-

I. Statutory compliance:

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

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

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

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

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

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

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

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

II. Air quality monitoring and preservation

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

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

iii. The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$in reference to PM emission, and $S0_2$ and NOx in reference to S02 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous).

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

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

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

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

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

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

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

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

xii. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 3151 March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7thDecember 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under

Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)

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

iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.

iv. Adhere to 'Zero Liquid Discharge'.

v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.

vi. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31stMarch 2012 (applicable to IF/EAF) as amended from time to time.

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

viii. The project proponent shall practice rainwater harvesting to maximum possible extent i.e. pond located in the Village Bhullepur shall be adopted with rain water recharging after desilting @ 30351 m3/annum. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytorid plants trench (designed based on the technology developed by CSIR-NEERI's) divided in different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to purification of water and collected into pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.

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

IV. Noise monitoring and prevention

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

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

V. Energy Conservation measures

i. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.

ii. Practice hot charging of slabs and billets/blooms as far as possible.

iii. Ensure installation of regenerative type burners on all reheating furnaces.

iv. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.

v. Provide the project proponent for LED lights in their offices and residential areas.

VI. Waste management

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

ii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces

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

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

v. Kitchen waste shall be composted or converted to biogas for further use.(to be decided on case to case basis depending on type and size of plant)

VII. Green Belt

i) Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant. The industry shall ensure that most of the periphery shall be provided with green belt by removing the unwanted/non-productive structures already provided in the existing project near the boundary wall.

ii) The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

VIII. Public hearing and Human health issues

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

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

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

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

v. The project proponent shall carry out the activities apart from CER activities and spent an amount as committed during the Public Hearing as Public Hearing Action Plan as under :

a) Local person as per the qualification to be employed in the expansion project.

b) Construction of boundary wall of the temple located in Village Alipur @ Rs.50,000/-.

c) Providing medicines in dispensary free of cost to their village @ Rs.50,000/-

IX. Corporate Environment Responsibility

i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending atleast minimum amount of Rs.10.40 Lacs towards following CER activities:

Sr. No.	Activities	Total Expenditure	Timeline	Total Expenditure (in Lacs)
1.	i) Maintenance of Building ii) Providing drinking water cooler facility iii) Providing solar panels on roof top	Rs.10.40 Lacs	1 Year	Rs.10.40 Lacs

However, CER activities shall strictly be in accordance with the activities listed out in the OM dated 01.05.2018 and as per the proposal submitted by the project proponent. The amount to be spent on CER activities shall be proportionate to the amount spent on project & such activities shall run parallel to the project execution. All the activities must be completed with the completion of the project.

ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms

/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

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

iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall ` cost of the environmental management plan will continue to be borne by the project proponent. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

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

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

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

XI. Validity

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

XII. Miscellaneous

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

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

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

iv. The project proponent shall monitor the criteria pollutants level namely; PM10, S02, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.

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

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

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

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

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

x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

xi. 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.

xii. The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xiii. The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xiv. The Regional Office of this Ministry or Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

xv. 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.

xvi. Any appeal against this EC 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.

ADDITIONAL SPECIFIC CONDITIONS DECIDED DURING MEETING OF SEAC

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

ii. The project proponent shall provide STP for treatment of waste water & reutilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09/08/2018 issued by the MoEF&CC for such units.

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

iv. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site. Sand, murram, loose soil, cement, stored on site shall be covered adequately and Water sprinkling system be put in place so as to prevent dust pollution.

v. The project proponent shall reserve land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking. The area to be reserved by considering the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.

vi. The project proponent shall comply with the standard operating procedures and upgradation of suction and treatment arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.

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

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

ix. The project proponent shall adopt green technologies to conserve the water and energy including shearing / cutting / bundling machines. Also to provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.

x. The project proponent shall use natural gas (if available) as substitute fuel wherever possible in the existing industry/ for expansion project.

xi. The project proponent shall take necessary action w.r.t. the following:-

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

b) Identify the areas for utilization of slag in scientific manner and its usage in cement / construction industry / road laying etc.

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

xii. The project proponent shall install the pulse jet bag filter APCD with offline cleaning technology with the proposed induction furnace.

xiii. The project proponent shall not abstract the ground water from the existing borewell for proposed/expansion industrial use. MC Gobindgarh water supply will be used for domestic and landscaping purpose only as MC letter dated 18.02.2019 regarding water supply from MC attached in EIA report.

Item no.187.07: Application for environmental clearance under EIA notification dated 14.09.2006 for establishment of group housing project namely Tanmay Towers located at Bhankarpur, Dera Bassi, S.A.S Nagar Mohali by M/s KG Enterprises, Ambala Chandigarh Highway, Opposite Gurudwara Sahib, Bhankharpur, Dera Bassi, SAS Nagar Mohali Proposal No. SIA/PB/NCP/71274/2017

SEAC observed as under:-

1.0 Background

M/s KG Enterprises has applied for obtaining environmental clearance under EIA notification dated 14.09.2006 for establishment of group housing project namely Tanmay Towers located at Bhankarpur, Dera Bassi, S.A.S Nagar Mohali. The project is covered under category building construction 8 (a) of the Schedule appended to the said notification.

On scrutinizing the application, following Essential details were sought online to which the project proponent has replied as under:-

Sr. NO.	EDS raised online	Reply submitted by Project Proponent
1.	Project proponent has submitted a letter regarding disposal of treated waste water from Gram Panchayat Village Bhankarpur wherein it has been mentioned that they have no objection in disposing the same in the village sewer. Is there any sewer in the said village? Also if the land falls in MC limit, then the permission is required to be taken from EO, MC and quantity of treated waste water to be discharged into sewer be mention in the letter.	Our project land is in the revenue estate of Village Bhankarpur. Sewer is existing in the said village. Our project is outside MC limits.
2.	Permission regarding disposal of solid waste from Competent Authority has not been attached.	We will follow MSW Rules,2016 and we will provide mechanical composter.

Environmental Engineer, PPCB, RO, Mohali was requested vide email dated 14.12.2017 to send the latest construction status of the project site. The status report was awaited. The case could not be taken up by SEAC in its 160th meeting due to paucity of time. The SEAC decided to defer the case & to take up the same in its next meeting.

In the meanwhile, report from Environmental Engineer, PPCB, RO, Mohali has been received vide its letter no. 5748 dated 19.12.2017 and it has been reported as under:-

"The project site was visited by the AEE on 15.12.2017 and Sh. Kamalpreet Sharma, Project Civil Engineer of the promoter company was contacted and he has shown the location of the site of the project. Further, it was observed that no construction activity has been started at the site, however, demarcation of the site has been done by Burjis. As per the site shown by the representative of the promoter company, the site falls on left hand side of Ambala-Chd road in village Bhankarpur. Furthermore, on one side of the project some agricultural land and houses of village Bhankarpur and one pollution check centre exists. On other side also some agricultural land and another pollution check centre exists. It is further intimated here that one industry namely M/s Mohan Meakin Limited, Mohan Gram, Village Bhankarpur, Tehsil Dera Bassi exists at a distance of about 300 meters. The said industry is an IMFL bottling unit and falls under orange category as per the categorization of the Board and the consents granted to the industry under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 are valid upto 30/06/2019. The said industry is not an air polluting

unit as no boiler / furnace / thermopack or any other source of air pollution except a DG set has been installed by the industry."

The case was considered by the SEAC in its 161st meeting held on 16.01.2018, which was attended by the following on behalf of the project proponent:

(i) Sh. Sahil Modi, Partner, Promoter Company
(ii) Sh. Sital Singh, CEO, M/s CPTL, Chandigarh, Environment consultant of the promoter company.
(iii) Sh. Sumitava Dutta, FAE, M/s CPTL, Chandigarh, Environment consultant of the promoter company.

Sh. Sahil Modi submitted an authority letter wherein he alongwith Sh. Deepak Gupta, Environmental Advisor have been authorized by Sh. Bharat Bhushan Modi, Partner of the Promoter Company to attend the meeting of SEAC 16.01.2018.The same was taken on record by the SEAC.

The SEAC members were apprised about the visit report & SEAC noticed that no construction activity has been started at the site, however, demarcation of the site has been done by Burjis. Thereafter, the SEAC allowed the project proponent to present the salient features of the project. The Environmental Consultant of the promoter company thus presented the salient features of the project as under: -

- The total plot area of the project is 8771 sqm and the total built up area of the Project is 23345 sqm. The proposal is to construct 166 flats & 2 nos of shops having estimated population @ 834 persons.
- The area of the site has been earmarked as residential area in Master Plan.
- The total water requirement will be 125 KLD which includes fresh water requirement @ 88 KLD. The fresh water requirement will be met through own tubewell and remaining 76 KLD will be met through recycling of treated wastewater. The treated waste water from STP of MC Zirakpur will be used during construction stage of the project.
- The total wastewater generation from the project will be 90 KLD, which will be treated in a STP (based on SBR technology) of capacity 150 KLD (calculated on the basis of waste water generation@200ltr per capita) to be installed at project site including wet weather flow. The treated waste water @90 KLD will be used in three different seasons as under:

  In summer season, the project proponent has proposed to utilize 37 KL/day of treated wastewater for flushing purpose, 12 KLD for green area, 41 KLD will be discharged into village sewer. In winter season, 37 KL/day of treated wastewater for flushing purpose, 4 KLD for green area & 49 KLD will be discharged into Village sewer. In rainy season, 37 KL/day of treated wastewater for flushing purpose, 1 KLD for green area & 52 KLD will be discharged into Village sewer.
- About 2193 sqm area has been earmarked for green area development at site. Only herbal pesticides will be used for gardening purposes and usage of chemicals will be avoided. Ornamental trees with spreading branches and shade

shall be planted in parks.

- Two number of ground water samples have been collected i.e. from depth of 375 ft (deep aquifer) and from depth of 58 ft (shallow aquifer) & analysis report revealed that concentration of different parameters were within the permissible limits as prescribed in the IS: 10500. Even the concentration of different parameters in ambient air was within the permissible limits as prescribed in the NAAQM. The noise levels during noise level monitoring carried out at site during day time and night time were within the permissible limits. Hence, there is meagre contribution in the noise pollution in the vicinity.
- The position of village sewer is at a distance of 126 mtr from project site and the same has been marked on layout plan. The project proponent has submitted letter from Sarpanch Gram Panchayat Bhankarpur wherein it has been mentioned that they have no objection if the treated waste water from proposed Group Housing Project will be discharged into village sewer. Accordingly, EDS was raised online to which the project proponent has submitted that project is outside MC limits but sewer is existing in Village Bhankarpur.
- The total quantity of solid waste generation will be 332 kg/day. Solid waste will be collected separately as biodegradable and Non-biodegradable waste as per the MSW Rules, 2016 and the waste will be segregated & collected through chute system. Biodegradable waste will be composted through Mechanical Composter. The non-biodegradable waste & Recyclable waste will be sold to authorized venders. Inert waste will be sent to Municipal dumping site.
- The total load of electricity required for said project will be 900 KW which will be taken from the PSPCL. There is a proposal to install silent 3 nos. DG Sets (1 X 240 KVA & 2 x 125 KVA) as stand-by arrangement.
- Total collection of rain water in a year has been estimated as 3903 cum/yr over area of 8771 sqm (includes roof top@ 2315 sqm, green area @ 2193 sqm & roads & paved area @ 4263 sqm) by taking annual rainfall @770 mm and 254 cum/yr by taking peak rain fall @50 mm in one hour. Accordingly, two number of rain water harvesting pits have been proposed to recharge the rain water as per norms of CGWA.
- The storm water other than roof top which will be available has been estimated as 70 m3 by taking rainfall intensity as 100 mm in two days with run off coefficient as 0.2 & area @40% of total site area. Shallow unlined surface impoundments (with graded gravel packing allowing for natural gravity seepage) capable of storing 100 m3 of water will be provided. This water will be used for construction purposes.
- Solar energy will be used for street light as well as in the parks in phased manner. LED lamps and energy efficient electrical gadgets shall be used. As per the energy saving detail, using 10 solar lights, 100 LED bulbs in common area & solar water heaters of 500 ltr, total energy saved per day will be 99 KW/h. 30 % of the total roof top area i.e. 0.30 x 2315 sqm = 694 sqm will be used for generation of solar

power@ 75 KW..

- Used oil to be generated from the DG sets will be stored in HDPE tanks and sold to the authorized recyclers.
- Partner of the company will be responsible for implementation of EMP till the handing over of the project to MC or association of residents.
- For implementation of EMP, Rs. 55 lacs as capital cost, Rs. 7 lacs as recurring cost & Rs.5.90 lacs /annum for monitoring of air, noise & water as recurring cost will be incurred in construction phase whereas in operation phase, Rs. 10 lacs as recurring cost, Rs.6.90 lacs /annum for monitoring of air, noise & water as recurring cost will be incurred.
- The project proponent has proposed to spend Rs. 5 lacs for providing Gym in Village Bhankpur as a part of CSR activity and Partner of the company will be responsible for its implementation.

During the meeting, the SEAC raised the certain observations to which project proponent sough some time to attend the same.

After deliberation, the SEAC decided to defer the case till such time the documents are submitted by the project proponent. Decision of SEAC has been conveyed vide letter No. 140 dated 30.01.2018 and also through ADS facility available on 30.01.2018 to the project proponent. The project proponent replied online to observation on 27/08/2019.

The said reply was placed before SEAC in its 187th meeting held on 26.02.2020 as Annexure-G of the agenda.

2.0 Deliberation during 187th meeting held on 26.02.2020

The case was considered by SEAC in its 187th meeting held on 26.02.2020 and was attended by the following on behalf of the project proponent:

i) Sh. Sahil Modi, Partner and Sh. Deepak Gupta, Environmental Advisor on behalf of the promoter company.

ii) Mr. Sital Singh, M/s CPTL Mohali.

SEAC allowed the Project proponent to present the salient features of the project and the Environmental Consultant of the same presented as under:

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/NCP/71274/2017
2.	Name and Location of the project	Project Name Tanmay Tower" located at Bhankharpur, Derabassi
3.	Latitude & Longitude	30.36 31.54 76.50 02.40
4.	Project/activity covered under item of scheduled to the EIA Notification,	8 (a)

<table>
<tr><td></td><td>14.09.2006</td><td></td></tr>
<tr><td>5.</td><td>Whether the project is in critical polluted area or not.</td><td>None</td></tr>
<tr><td>6.</td><td>Does the project involve diversion of forest land.</td><td>No</td></tr>
<tr><td>7.</td><td>Does the project covered under PLPA,1900, if No
but located near to PLPA area then the project proponent is required to submit NOC from the concerned DFO to the effect that project area does not fall under the provision of PLPA Act, 1900.
b) Is the project covered under PLPA, 1900, if yes then Status of the NOC w.r.t PLPA,1900.</td><td>No

NA</td></tr>
<tr><td>8.</td><td>Does the project fall within 10 km of ecosensitive area/ National park/Wild Life Sanctuary.</td><td>No</td></tr>
<tr><td>9.</td><td>Classification/Land use pattern as per Master Plan</td><td>Residential area as per the Master Plan.</td></tr>
<tr><td>10.</td><td>Cost of the project</td><td>22 Crores, Fee is not applicable.</td></tr>
<tr><td>11.</td><td>Total Plot area, Built up Area and Green area</td><td><table><tr><td>Description</td><td></td></tr><tr><td>Land</td><td>8771sqm</td></tr><tr><td>Built-up area</td><td>23345 sqm</td></tr><tr><td>Green area</td><td>2193 sqm</td></tr></table></td></tr>
<tr><td>12.</td><td>Population (when fully operational)</td><td>834 Nos</td></tr>
<tr><td>13.</td><td>Water Requirements & source in Construction Phase</td><td>10-15 KLD septic tank further the treated waste water will be used for green area</td></tr>
<tr><td>14.</td><td colspan="2">Break up of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):

<table><tr><td rowspan="2">Sr. No.</td><td rowspan="2">Season</td><td colspan="2">Fresh Water</td><td colspan="3">Reuse water</td><td rowspan="2"></td></tr><tr><td>Domestic</td><td>Fresh water) KLD</td><td>For Flushing purposes KLD</td><td>Green Area KLD</td><td>HVAC If any KLD</td></tr><tr><td>1</td><td>Summer</td><td>113</td><td>76</td><td>37</td><td>12</td><td>--</td><td></td></tr><tr><td>2</td><td>Winter</td><td>113</td><td>76</td><td>37</td><td>4</td><td></td><td></td></tr><tr><td>3</td><td>Rainy</td><td>113</td><td>76</td><td>37</td><td>1</td><td></td><td></td></tr></table></td></tr>
<tr><td>15.</td><td>Source of Water</td><td>Purposes Source
Domestic Ground water
(CGWA application submitted)</td></tr>
</table>

<table>
<tr><td></td><td></td><td>For Flushing purposes : Treated waste water /Others Green Area</td></tr>
<tr><td>16.</td><td>Treatment & Disposal arrangements of waste water in Construction Phase</td><td>Septic Tank of capacity 10 KLD will be provided and treated water shall be utilized in green area.</td></tr>
<tr><td>17.</td><td>Disposal Arrangement of Waste water in Operation Phase</td><td>90 KLD waste water will be treated in the STP of capacity 150 KLD to be installed in the project premises. The break up of disposal of the same is as under:-
<table>
<tr><th>Sr. No.</th><th>Season</th><th>For Flushing purposes (KLD)</th><th>Green Area sqm (KLD)</th><th>MC Sewer if any (KLD)</th></tr>
<tr><td>1.</td><td>Summer</td><td>37</td><td>12</td><td>41</td></tr>
<tr><td>2.</td><td>Winter</td><td>37</td><td>4</td><td>49</td></tr>
<tr><td>3.</td><td>Rainy</td><td>37</td><td>1</td><td>52</td></tr>
</table></td></tr>
<tr><td>18.</td><td>Rain water recharging detail</td><td>3903 m3/year rain water will be collected .</td></tr>
<tr><td>19.</td><td>Solid waste generation and its disposal</td><td>a)332 kg/day
b) Solid wastes will be appropriately segregated (at source. by providing bins) into recyclable, Bio-degradable Components, and non- biodegradable
c) Mechanical composter will be provided for the Biodegradable waste.
d) MSW Rules, 2016 shall be followed.</td></tr>
<tr><td>20</td><td>Hazardous Waste & EWaste</td><td>Cat 5.1 i.e. used oil from DG sets will be sold to registered recyclers and E-waste will be disposed off as per the E-waste (Management) Amendment Rules, 2018.</td></tr>
<tr><td>21</td><td>Energy Requirements & Saving</td><td>a) 900 KW from PSPCL.
b) 1x 240 KVA & 2 x125 KVA (silent DG sets) Energy
Saving measures:
i) Solar Light 10 No = 15 KWHD
ii) Common area (100) lights replaced with LED = 54 KWHD
iii) Solar water heater for the total water required = 500 Ltr
iv) Energy Saving @2200 KWH annually with 100 ltr solar heated water use/day
v) Energy Saved 500 x2200/100 = 11000 KWH/year = 30KWH/day
vi) Total Energy saved/day 15+54+30 = 99 KWHD</td></tr>
</table>

<table>
<tr><td>22</td><td>Environment Management Plan along with Budgetary break up phase wise and responsibility to implement</td><td>During construction phase GM will be responsible and during operation phase, PARTNER Will be responsible for implementation of the EMP.

<table><tr><td>Description</td><td>Capital Cost (Rs)</td><td>Recurring Cost (Rs)</td></tr><tr><td>Construction</td><td>105 lac</td><td>12.90</td></tr><tr><td>Operation</td><td>-</td><td>16.90</td></tr></table></td></tr>
<tr><td>23</td><td>CER activities along with budgetary break up and responsibility to implement</td><td>Partner will be responsible for implementation of the CER activities. The details of the various CER activities, fund allocated and its completion schedule are as under:

<table><tr><td colspan="2" rowspan="2">Sr.no.</td><td rowspan="2">CER activities</td><td rowspan="2">Fund Allocated (Rs.)</td><td>Time Schedule</td></tr><tr><td>Start</td></tr><tr><td colspan="2">1.</td><td>Providing gym in the village Bhankhpur</td><td>5,000,00/-</td><td>Started on 01/12/2020</td></tr><tr><td colspan="4">TOTAL</td><td>5,00,000.00</td></tr></table></td></tr>
</table>

He also presented the reply to the queries earlier observation raised by SEAC on 16.01.2018 as under:

Sr. No.	Earlier raised Observations dated 16.01.2018	Reply submitted by the project proponent
1.	The project proponent has proposed to provide storage tank for storing storm water during construction phase which can be a hazard to working labour & their children at site. The SEAC suggested that the project proponent should fence the storage tank properly and in addition to this, the boundary wall should be constructed at last stage or at least 2 ft high openings in the boundary wall be provided at ground level to allow adequate passage to the surface run off during construction phase.	The project proponent agreed to the suggestion of SEAC submitted an undertaking to the same.
	The SEAC observed that the project proponent has not proposed oil & grease trap & de-silting chamber in its rain water harvesting design plan before recharging surface run off from paved areas. The SEAC further observed that taking	It was informed that 3903 m3/year rain water will be collected and 5 no. of recharging pits will be provided to recharge the rooftop rainwater of buildings after treatment through oil &

	wholistic view of soil characteristics in Punjab, the infiltration rate of recharge structure should be adopted as 10 lps and recharge wells should be provided accordingly with at least one re-charge bores per 5000 sqm of built up area. Environmental conditions provided as per provisions contained in the MoEF notification dated 09.12.2016 for such type of projects. The SEAC further observed that the recharge well casing should be capped from the top so as to prevent direct overflow of storm water into the recharge well.	Grease traps.
3.	The project proponent has proposed to plant ornamental trees with spreading branches and shade in parks. The SEAC decided that plantation should be provided as per SEIAA guidelines and as per notification dated 09.12.2016 issued by MoEF&CC.	The project proponent agreed to the suggestion of SEAC and submitted that the native varieties of trees will be planted.
4.	The project proponent has submitted letter from Sarpanch Gram Panchayat Bhankarpur wherein it has been mentioned that they have no objection if the treated waste water from proposed Group Housing Project will be discharged into Village sewer. The SEAC observed that the final disposal of the waste water of the village sewer has not been mentioned in the letter, thus, it is apprehended that the waste water of the village sewer will be discharged into village ponds. It is not known that sewerage system of the village has been laid to take extra load of domestic waste water to be generated from this project. Also, the end disposal is not known as to whether it will lead into village pond or some other suitable arrangement such as utilizing the waste water onto land for irrigation purposes etc. To this query, the project proponent contested that waste water of village sewer will be treated in STP of Derabassi. The SEAC asked the project proponent to submit documentary evidence to prove his contention i.e. proper proposal duly authenticated by the	MC Derabassi, has issued NOC vide letter no.1010 dated 25/07/2019 to the effect that sewer facility is near to the village Bhankarpur. If, the project proponent connects the sewer of the project to the sewer of Municipal Council at its own cost then it has no objection for the same. The land between project and limit of the MC Derabassi from which sewer line will pass, belongs to Government. The project proponent after depositing requisite charges to the Municipal Council may discharge 202 KLD treated waste water into MC sewer.

	Department which has laid sewerage conveyance system in the village and its end disposal.	

SEAC was satisfied from the presentation and reply given to the observations. SEAC took a copy of presentation along with reply on record.

3.0 Recommendations

After deliberations, SEAC decided to award 'Silver Grading' to the project proposal and to forward the application of the project proponent to SEIAA with the recommendations to grant Environmental Clearance for establishment of the group housing project namely "Tanmay Towers" having built up area 23345 sqm and total land area 8771 sqm located at Ambala Chandigarh Highway, opposite Gurdwara Sahib, Bhankarpur as per the details mentioned in the Form 1, 1A, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with, proposed measures, conditions prescribed in **Annexure-I** subject to following additions amendments and deletions and special conditions given as under

Conditions to be amended in the Annexure-I as under :-

Condition no. iv), v-a) & xv) of III. Water quality monitoring and preservation

iv) The total water requirement for the project will be 113 KL/day, out of which 76 KL /day shall be met through own tube well and remaining through recycling of treated waste water. Total fresh water use shall not exceed the proposed requirement as provided in the project details.

v) a)The total wastewater generation from the project will be 90 KL/day, which will be treated in STP of capacity @ 150 KLD on SBR technology within the project premises. As proposed, reuse of treated wastewater and discharge of surplus treated wastewater shall be as under:-

S. No.	Season	For Flushing purposes (KLD)	Green Area (KLD)	Into sewer (KLD)
1.	Summer	37	12	41
2.	Winter	37	4	49
3.	Rainy	37	1	52

xv) A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without

approval from the Competent Authority. Thus, total 5 no. rain water harvesting recharge pits shall be provided for ground water recharging

xxiv) The project proponent shall connect the sewer of the project to the sewer of Municipal Council at its own cost if, MC fails to join the same till the time of occupancy.

X. Condition no. i) & iv) of X of Corporate Environment Responsibility

i) The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least minimum amount of Rs. 5,00,000/- towards following CER activities. The details are given below: -

Sr No.	CER activities	Fund Allocated (Rs.)	Time Schedule	
			Start time	End time
1.	Providing gym in the village Bhankhpur	5,000,00/-	01/12/2020	30.11.2021

iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall spend minimum amount of Rs 105 Lacs towards capital cost and Rs 12.9 Lacs/annum towards recurring cost in Construction phase of the project and shall spend minimum amount of 16.9 Lacs/annum towards recurring cost in operation phase of the project including the environmental monitoring cost. The entire cost of the environmental management plan will continue to be borne by the project proponent until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

Item No.187.08: Application for obtaining Environmental clearance under EIA notification dated 14.09.2006 for establishment of new industrial estate in the revenue estate of Village Jakhran, Khadauli, Sardargarh & Damanheri, Tehsil Rajpura, District Patiala, Punjab by M/s SIEL Industrial Estate Limited (Proposal No. SIA/PB/MIS/41929/2018)

SEAC observed as under: -

1.0 Background

M/s SIEL Industrial Estate Limited was issued ToRs vide letter no 279-282 dated 22.02.2019 for establishment of new industrial estate in an area of 462.155 acre (186.6 hectare or 18,70,283.22 sqm) having 255 industrial plots and other amenities like administrative block, commercial block, dispensary, police post, fire station etc. in the revenue estate of village Jakhran, Khadauli, Sardargarh & Damanheri, Tehsil Rajpura, District Patiala, Punjab.

Essential details were sought from the project proponent online on 26.11.2019 and 09.12.2019 to which he replied on 04.12.2019 and 27.12.2019, respectively.

The project proponent submitted the revised EIA report on line on 27.12.2019. The project proponent has also deposited environmental clearance fee amounting to Rs 5,61090/- vide R.No, 4364 dated 03.10.2019, which is adequate as per the fee circular dated 27.06.2019.

2.0 Deliberations during 187th meeting of SEAC held on 26.02.2020

The case was considered by SEAC in its 187th meeting held on 26.02.2020 and was attended by the following on behalf of the project proponent:

i) Sh. H.S. Sandhu, Director and Sh. Brajesh Singh, GM (EHS) on behalf of the promoter company.
ii) Ms. S. Dutta, M/s CPTL Mohali.

SEAC allowed the Project proponent to present the salient features of the project and the Environmental Consultant of the same presented as under:

<table>
<tr><th>S.No.</th><th>Item</th><th>Details</th></tr>
<tr><td>1.</td><td>Online Proposal No.</td><td>SIA/PB/MIS/41929/2018</td></tr>
<tr><td>2.</td><td>Name and Location of the project</td><td>"M/s SIEL INDUSTRIAL ESTATE" located at Village-Kheri Gandian Jakhran, Khadauli, Sardargarh & Damanheri, Tehsil- Rajpura, District- Patiala, Punjab</td></tr>
<tr><td>3.</td><td>Latitude & Longitude</td><td>Corners coordinates:
<table>
<tr><td>Corner</td><td>Latitude</td><td>Longitude</td></tr>
<tr><td>Corner-A</td><td>30°27'45.78"N</td><td>76°32'16.20"E</td></tr>
<tr><td>Corner-B</td><td>30°28'05.98"N</td><td>76°32'47.77"E</td></tr>
<tr><td>Corner-C</td><td>30°27'03.20"N</td><td>76°32'36.58"E</td></tr>
<tr><td>Corner-D</td><td>30°27'34.58"N</td><td>76°33'25.41"E</td></tr>
</table></td></tr>
<tr><td>4.</td><td>Project/activity covered under item of scheduled to the EIA Notification,14.09.2006</td><td>Project covered under Category '8(b)' as
i) Industrial estate is having area below 500 ha and not hosing any industry of category A or B.</td></tr>
</table>

		ii) Further, area covered is less than 500 hectare but contains building and construction projects > 20,000 sqm and or development arear more than 50 ha and no category "A" or "B" project is to be established in the project except covered under category 8(a)
5.	Whether the project is in critical polluted area or not.	No, Project does not fall in critically polluted area.
6.	If the project involves diversion of forest land. If yes, a. Extent of the forest land. b. Status of the forest clearance.	No. Project does not involve any diversion of forest land.
7.	a. Is the project covered under PLPA, 1900,ifNo but located near to PLPA area then the project proponent is required to submit NOC from the concerned DFO to the effect that project area does not fall under the provision of PLPA Act,1900. b. Is the project covered under PLPA, 1900, if yes then Status of the NOC w.r.t PLPA, 1900.	Project is not covered under PLPA, 1900.
8.	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 National Board for Wild Life (NBWL).	No wildlife or bird sanctuary falls within 10 km of project site, thus, there is no requirement of NBWL clearance.
9.	Classification/Land use pattern as per Master Plan	Industrial zone as per Master plan of Ludhiana.
10.	Cost of the project	Rs. 377 Crores

<table>
<tr><td>11.</td><td>Total Plot area, Built- up Area and Green area</td><td>
<table>
<tr><td>S.No.</td><td>Description</td><td>Area</td></tr>
<tr><td>1.</td><td>Plot area</td><td>1870295.16 m^2 (or 462.16 acres)</td></tr>
<tr><td>2.</td><td>Built-up area</td><td>1139756.65 m^2</td></tr>
<tr><td>3.</td><td>Green area</td><td>120272.57 m^2</td></tr>
</table>
</td></tr>
<tr><td>12.</td><td>Population (when fully operational)</td><td>Estimated population: 10,000 Persons.</td></tr>
<tr><td>13.</td><td>Water Requirements &source in Construction Phase</td><td>Water demand of 20 KLD will be there depending upon phases of construction. The water requirement will be fulfilled by Surface water.</td></tr>
<tr><td>14.</td><td colspan="2">Breakup of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):
<table>
<tr><td rowspan="2">Sr. No.</td><td rowspan="2">Season</td><td>Fresh water</td><td colspan="3">Reuse water (Treated water)</td><td>Total (KLD)</td></tr>
<tr><td>Domestic (KLD)</td><td>Flushing (KLD)</td><td colspan="2">Green area Requirement (KLD)</td><td></td></tr>
<tr><td>1.</td><td>Summer</td><td>1925</td><td>745</td><td colspan="2">2406.9</td><td>3151.9</td></tr>
<tr><td>2.</td><td>Winter</td><td>1925</td><td>745</td><td colspan="2">787.7</td><td>1532.7</td></tr>
<tr><td>3.</td><td>Rainy</td><td>1925</td><td>745</td><td colspan="2">218.8</td><td>963.8</td></tr>
</table>
<table>
<tr><td>S.No.</td><td>Description</td><td>Source of water</td></tr>
<tr><td>1.</td><td>Domestic</td><td>Surface water (Bhakhra canal)</td></tr>
<tr><td>2.</td><td>Others</td><td>-</td></tr>
<tr><td>3.</td><td>Flushing purposes</td><td>Treated waste water</td></tr>
<tr><td>4.</td><td>Green area</td><td>Treated waste water</td></tr>
<tr><td>5.</td><td>Dust Suppression</td><td>Treated waste water</td></tr>
</table>
</td></tr>
<tr><td>15.</td><td>Treatment & Disposal arrangements of waste water in Construction Phase</td><td>Wastewater generated will be treated in septic tank and will be utilized in green area.</td></tr>
<tr><td>16.</td><td>Disposal Arrangement of Waste water in Operation Phase</td><td>Total wastewater generation will be 2282 KLD which will be treated in proposed 4 STPs of total capacity of 2500 KLD based on SBR technology followed by tertiary treatment. The details of breakup of utilization of waste water is as under:-
<table>
<tr><td>Season</td><td>Flushing (KLD)</td><td>Green area (KLD)</td><td>Sewer (KLD)</td></tr>
<tr><td>Summer</td><td>745</td><td>2406.9</td><td>-</td></tr>
<tr><td>Winter</td><td>745</td><td>787.7</td><td>-</td></tr>
<tr><td>Monsoon</td><td>745</td><td>218.8</td><td>-</td></tr>
</table>
</td></tr>
<tr><td>17.</td><td>Rain water recharging detail</td><td>170871.1 m^3/annum rain water will be collected in 82 no. of Rain water recharging pits.</td></tr>
</table>

<table>
<tr><td>18.</td><td>Solid waste generation and its disposal</td><td>a) 4500 kg/day
b) Solid wastes will be appropriately segregated (at source by providing bins) into recyclable, Bio-degradable Components and Inert waste.
c) 2475 Kg/day Bio-degradable will be Converted into Manure in compost pit.
d) Recyclable waste (1350 Kg/day) will be handed over to authorized waste pickers
e) Inert waste (675 Kg/day) will be disposed off to MC Rajpura as per Solid Waste Management Rules, 2016.</td></tr>
<tr><td>19.</td><td>Hazardous Waste &E- Waste</td><td>Used oil from DG sets will be sold to registered recyclers and E-waste will be disposed off as per the E-waste (Management) Amendment Rules 2018.</td></tr>
<tr><td>20.</td><td>Energy Requirements & Saving</td><td>I Total load – 30,000KVA
II Distribution
1. Inner Lighting load = 7500KVA
2. Outer lighting load = 1500KVA
3. Power load = 21000KVA
III SAVING
i) Saving on light points by using 30W LED = 1875KVA instead of 40 W tubes @ 25%
ii) By using solar energy for outer lighting = 1500KVA savers @ 100%
Total = 3375KVA
Saving %age = 11.3%
III) Solar power plant of 5000 KVA will be installed When, solar power plant will be fully functional, the energy saving will be = (3375 + 5000)/30,000 x 100 ≈ 28 %</td></tr>
<tr><td>21.</td><td colspan="2">Environment Management Plan along with Budgetary break up phase wise and responsibility to implement</td></tr>
<tr><td>a)</td><td colspan="2">Construction Phase:
<table>
<tr><th></th><th>Activity</th><th>Cost (INR)</th><th>Recurring Cost (INR)</th></tr>
<tr><td>a)</td><td>Statutory permissions</td><td>As applicable (51, 00, 000.00)</td><td>5,00,000.00</td></tr>
<tr><td>b)</td><td>STP and sewage system</td><td>7,28,00,000.00</td><td>10,00,000.00</td></tr>
<tr><td>c)</td><td>Water Supply Scheme</td><td>9,01,00,000.00</td><td>5,00,000.00</td></tr>
<tr><td>d)</td><td>Storm water management</td><td>5,00,00,000.00</td><td>10,00,000.00</td></tr>
<tr><td>e)</td><td>Road & Footbath</td><td>11,43,00,000.00</td><td>15,00,000.00</td></tr>
<tr><td>f)</td><td>Green belt development</td><td>67,00,000.00</td><td>10,00,000.00</td></tr>
<tr><td>g)</td><td>Street Light</td><td>89,00,000.00</td><td>5,00,000.00</td></tr>
<tr><td>h)</td><td>Sides of Road</td><td>20,00,00,000.00</td><td>10,00,000.00</td></tr>
</table></td></tr>
</table>

	i)	Electrical Cost	21,65,00,000.00	15,00,000.00
	Total		76,44,00,000.00	85,00,000.00

b) Operation Phase:

	Activity	**Capital Cost (INR)**	**Recurring Cost (INR)**
1.	Sewage collection, treatment & disposal	40,00,000.00	5,00,000.00
2.	Waste management	16,00,000.00	2,00,000.00
3.	Environment monitoring	2,00,000.00	50,000.00
4.	Consulting & advisory services	3,00,000.00	50,000.00
5.	Miscellaneous maintenance	20,00,000.00	
6.	Sundry	5,00,000.00	
Total		86,00,000.00	8,00,000/-

22. CER activities along with budgetary break up and responsibility to implement

The CER expanse of project will be 2.26 Crores out of which Rs. 48, 50, 000.0 will be spent for undertaking various measures in SGGS Khalsa Sr. Sec. School, Bhagowal as per their requirement. The detail of CER plan for first year is provided below:-

	Proposed CSER activity	**Amount (Rs.)**
1.	For education of children of labour	10,00,000.00
2.	Road construction	4,00,000.00
3.	Green belt maintenance, Rajpura City	2,00,000.00
4.	Medical camp and medicine distribution	1,00,000.00
5.	Drinking water availability	2,00,000.00
6.	**Village I - Jakhran**	
a)	Construction and maintenance of road	2,00,000.00
b)	Provision and maintenance of solar street/road lights (40 nos.)	2,00,000.00
c)	Plantation (~100 trees)	1,00,000.00
d)	Maintenance of village pond	1,00,000.00
7.	**Village II- Damanheri**	
a)	Drinking water	1,00,000.00
b)	Plantation (~100 trees)	1,00,000.00
c)	Provision and maintenance of solar street/road lights (20 nos.)	1,00,000.00
8.	**Village III- Khadoli**	
a)	Provision and maintenance of solar street/road lights (20 nos.)	2,00,000.00
b)	Maintenance of village pond	1,00,000.00
9.	**Village IV- Sardargarh**	

a)	Drinking water	1,00,000.00
b)	Provision and maintenance of solar street/road lights (20 nos.)	1,00,000.00
	Total	**33,00,000.00**
These CER activities are committed by SIEL Industrial Limited as per MoEF & CC OM dated 01.05.2018 for Rs 226.2 Lacs		

SEAC raised the following queries to the project proponent which he replied as under:

<table>
<tr><th>Sr. No.</th><th>Observations</th><th>Reply of the project proponent</th></tr>
<tr><td>1</td><td>The industry shall make an agreement with M.C Rajpura for using their treated STP water within the industrial estate in case of additional demand during summer season.</td><td>The project proponent agreed to the same and submitted an undertaking to this effect.</td></tr>
<tr><td>2</td><td>The industry shall adopt village ponds in CER activities.</td><td>The project proponent agreed to the same and submitted revised CER activities which are given as under:
<table>
<tr><th>Sr. No</th><th>Activity</th><th>Annual Cost</th><th>Total Cost</th></tr>
<tr><td>1</td><td>Adoption of 06 Nos Village Pond @ one pond per year</td><td>30 Lacs each pond</td><td>180 Lacs</td></tr>
<tr><td>2</td><td>Adoption of a senior Secondary school namely SGGS Khalsa School, Bhagowal, Batala</td><td>6.6 Lacs per year for 7 years</td><td>46.2 Lacs</td></tr>
<tr><td></td><td>Total</td><td></td><td>Rs 226.2 Lacs</td></tr>
</table></td></tr>
<tr><td>3</td><td>No ground water will be abstracted by M/s SIEL Industrial Estate Limited and the Industrial Units. However, in case of future requirements, industrial unit will individually obtain NOC from competent authority.</td><td>The project proponent agreed to the same and submitted an undertaking to this effect.</td></tr>
</table>

4	The industrial plots will be allotted to those Industries which will achieve Zero Liquid Discharge	The project proponent agreed to the same and submitted an undertaking to this effect.
5	The industry shall install STP based on SBR Technology followed by tertiary treatment	The project proponent agreed to the same and submitted an undertaking to this effect.
6	High water intensive industry like dying, tannery, distillery etc. shall not be established. Moreover, the Moderate water intensive units shall also have Zero Liquid Discharge Treatment based Technology.	The project proponent agreed to the same and submitted an undertaking to this effect.
7	The water requirement for Siel Industrial Estate Ltd will be met by Canal Water as per agreement of Siel Industrial Estate along with SIEL Chemical Complex with Government of Punjab. However in case of any enhanced requirement, industrial unit will individually obtain NOC from CGWA or Competent authority.	The project proponent agreed to the same and submitted an undertaking to this effect.
8	Individual industry/plot holder shall not install any groundwater abstraction structure without permission from the CGWA or competent authority.	The project proponent agreed to the same and submitted an undertaking to this effect.
9	The project proponent shall provide Peizometers at the project site as per the CGWA guidelines.	The project proponent agreed to the same and submitted an undertaking to this effect.
10	Each individual industry or project will obtain mandatory permissions like consent to establish, Consent to operate and Hazardous Waste authorization under the pollution control laws from the Punjab Pollution Control Board.	The project proponent agreed to the same and submitted an undertaking to this effect.
11	All industries will adopt proper and adequate Air Pollution Control Devices to control the emissions as per prescribed norms of Punjab Pollution Control Board. Also, the DG sets shall be equipped with canopies.	The project proponent agreed to the same and submitted an undertaking to this effect.
12	High Air Polluting industry like cement grinding units, Induction (more than 500 kgs/ heat)/ Cupola furnaces/ Reheating Rolling Mills, Brick Kilns, Saila Plants, etc. shall not	The project proponent agreed to the same and submitted an undertaking to this effect.

	be allowed to established in the Industrial Estate unless adequate pollution Control system will be provided to meet requisite norms.	
13	Not more than 282 acres out of 462.15 acres be earmarked for the Red, Orange, Green and White category of industries.	The project proponent agreed to the same and submitted an undertaking to this effect.
14	The project proponent shall make arrangement if required to store chemicals at adequate height, in consultation with Drainage Division, Department of Irrigation, Punjab, so that there is no chance of leaching or contamination of soil and ground water. This condition will also be incorporated in the allotment letter.	The project proponent agreed to the same and submitted an undertaking to this effect.
15	No industry covered under Category "A" and "B" falling in the Schedule appended to the EIA notification, 2006 (as amended from time to time) shall be allowed to established except category under 8 (a) and 8(b) in Siel Industrial Estate Ltd.	The project proponent agreed to the same and submitted an undertaking to this effect.

SEAC was satisfied from the presentation and reply given to the observation. SEAC took a copy of presentation along with reply on record.

3.0 Recommendations

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 recommendations to grant Environmental Clearance for establishment of new industrial estate having 255 industrial plots and other amenities like administrative block, commercial block, dispensary, police post, fire station etc. having built up area 1139756.65 sqm in total land area of 74826.2565 sqm in an area of 462.155 acres (186.6 hectare or 18,70,283.22 sqm) located in the revenue estate of village Jakhran, Khadauli, Sardargarh & Damanheri, Tehsil Rajpura, District Patiala, Punjab, as per the details mentioned in the Form 1, 1A, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with, proposed measures, conditions prescribed in **Annexure-I** subject to following additions amendments and deletions and special conditions given as under

Conditions to be added in the Annexure-I as under :

Special conditions

i) No industry covered under Category "A" and "B" falling in the Schedule appended

to the EIA notification, 2006 (as amended from time to time) shall be allowed to established except category under 8 (a) in Siel Industrial Estate Ltd. However, other industries (not covered in the EIA notification, 2006), although categorized as Red, Orange, Green and White as per the PPCB classification are allowed to be established.

ii) Not more than 282 acres out of 462.15 acres be earmarked for the Red, Orange, Green and White category of industries.

iii) The industry shall make an agreement with M.C Rajpura for using their treated STP water within the industrial estate in case of additional demand during summer season.

iv) High water intensive industry like dying, tannery, distillery etc. shall not be established. Moreover, the Moderate water intensive units shall also have Zero Liquid Discharge Treatment based Technology.

v) High Air Polluting industry like cement grinding units, Induction (more than 500 kgs/ heat)/ Cupola furnaces/ Reheating Rolling Mills, Brick Kilns, Saila Plants, etc. shall not be allowed to established in the Industrial Estate unless adequate pollution Control system will be provided to meet requisite norms.

vi) All industries will adopt proper and adequate Air Pollution Control Devices to control the emissions as per prescribed norms of Punjab Pollution Control Board. Also, the DG sets shall be equipped with canopies.

vii) Each individual industry or project will obtain mandatory permissions like consent to establish, Consent to operate and Hazardous Waste authorization under the pollution control laws from the Punjab Pollution Control Board.

viii) The project proponent shall provide Piezometers at the project site as per the CGWA guidelines.

ix) Individual industry/plot holder shall not install any groundwater abstraction structure without permission from the CGWA or competent authority.

x) The industrial plots will be allotted to those Industries which will achieve Zero Liquid Discharge.

xi) No ground water will be abstracted by M/s SIEL Industrial Estate Limited and the Industrial Units. However, in case of future requirements, industrial unit will individually obtain NOC from competent authority.

xii) The water requirement for Siel Industrial Estate Ltd will be met by Canal Water as per agreement of Siel Industrial Estate along with SIEL Chemical Complex with Government of Punjab. However, in case of any enhanced requirement, industrial unit will individually obtain NOC from CGWA or Competent authority.

xiii) The industry shall install STP based on SBR Technology followed by tertiary treatment.

xiv) The project proponent shall make arrangement if required to store chemicals at adequate height, in consultation with Drainage Division, Department of Irrigation, Punjab, so that there is no chance of leaching or contamination of soil and ground water. This condition will also be incorporated in the allotment letter.

Conditions to be amended in the Annexure-I as under :-

Condition no. iv), v-a) & xv) of III. Water quality monitoring and preservation

iv) The total water requirement for the project will be 2670 KL/day, out of which fresh water demand of 1925 KL /day shall be met through canal supply and remaining through recycling of treated waste water. Total fresh water use shall not exceed the proposed requirement as provided in the project details.

v) a)The total wastewater generation from the project will be 2282 KL/day, which will be treated in 4 no. STPs of total capacity of 2500 KLD based on SBR Technology. As proposed, reuse of treated wastewater and discharge of surplus treated wastewater shall be as under:-

Sr. No.	Season	For Flushing purposes (KLD)	Green Area (KLD)	Excess water for storage reservoir (KLD)
1.	Summer	745	2406.9	--
2.	Winter	745	787.7	749.3
3.	Rainy	745	218.8	1318.2

xv) The CGWA provisions on rain water harvesting should be followed. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. As per the proposal submitted by the project proponent 82 no. rain water harvesting recharge pits /storage tanks shall be provided for ground water recharging as per the CGWB norms The ground water shall not be withdrawn without approval from the Competent Authority.

X. Condition no. i) & iv) of X of Corporate Environment Responsibility

i) The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least minimum amount of Rs. 226.2 Lacs [@ 0.75% of total project cost for expansion] towards following CER activities. The details are given below: -

S No.	Activity	Annual Cost	Total Cost
1	Adoption of 06 Nos Village Pond @ one pond per year	Rs 30 Lacs each pond	Rs 180 Lacs

2	Adoption of a senior Secondary school namely SGGS Khalsa School, Bhagowal, Batala	Rs 6.6 Lacs per year for 7 years	Rs 46.2 Lacs
	Total		Rs 226.2 Lacs

iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall spend minimum amount of Rs 76.44 Crores towards capital cost and Rs 85 Lacs/annum towards recurring cost in Construction phase of the project and shall spend minimum amount of Rs 86 Lacs towards capital cost and Rs 8 Lacs/annum towards recurring cost in operation phase of the project. The entire cost of the environmental management plan will continue to be borne by the project proponent until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

Item No. 187.09: Application for obtaining environmental clearance under EIA notification dated 14.09.2006 for the expansion of group housing project namely "Hero Homes" located at Sector 88, SAS Nagar, Mohali (Punjab) by M/s Hero Realty Pvt. Ltd. (Proposal No. SIA/PB/NCP/42719/2018).

SEAC observed as under:

1.0 Back ground

The project proponent was issued Terms of References (TORs) for obtaining Environmental Clearance under the EIA Notification dated 14.09.2006 for the expansion of group housing project namely "Hero Homes" located at Sector 88, SAS Nagar, Mohali (Punjab) vide letter no 735-737 dated 22/08/2019.

Further Northern Regional Office, MOEF&CC, Chandigarh was requested vide letter no 738-739 dated 22/08/2019 to re-verify the action taken report of the compliances made by the Project Proponent w.r.t. the earlier observations raised by it and send the report within one month. No report was received from the Northern Regional Office of MoEF&CC till 20/09/2019. Further, in compliance to decision taken in case of non-receipt of report from the Northern Regional Office of MoEF&CC, Regional Office of PPCB, Mohali has also been requested vide letter no 901 dated 01.10.2019 asked to re-verify the compliance

of the aforesaid observations and send the report as per MoEF& CC circular dated 07.09.2017.

Essential details were sought from the project proponent online on 21.12.2019 and 16.01.2020 to which he replied on 26.12.2019 and 18.01.2020, respectively

The project proponent submitted the revised EIA report on 18.01.2020.

The project proponent has also deposited EC fee amounting to Rs 2,70,220/- vide DD No. 541652/- dated 23.09.2019 as per the Govt. order dated 27.06.2019. The project proponent has also submitted the report issued by the MoEF& CC vide letter no 357 dated 11.11.2019 regarding the re-verification of compliances made by the him w.r.t the earlier observation raised in certified monitoring report dated 01.02.2019 and copy of the same was enclosed as Annexure-H of the instant agenda**.**

2.0 Deliberation during 187th meeting held on 26.02.2020

The case was considered by SEAC in its 187th meeting held on 26.02.2020 and was attended by the following on behalf of the project proponent:

i) Sh. Sandeep Sehgal, V.P. (Projects) on behalf of the promoter company.
ii) Ms. Sadhna Singh, M/s GRC India Pvt. Ltd.

To a query of SEAC regarding the action taken report on the non-compliance of the condition of the earlier granted environmental clearance to it, the project proponent presented the compliance of all the observation raised by MOEF& CC. SEAC observed that the project proponent has now complied with the said observations. The project proponent has carried out the monitoring of $PM_{2.5}$, PM_{10} and CO and observed that analysis results of said parameter in the study of May,2019 are within permissible limit except concentration of $PM_{2.5}$ at 02 locations for which he suggested mitigation measures to be taken during construction phase. SEAC was satisfied the same.

Thereafter, SEAC allowed the Project proponent to present the salient features of the project and the Environmental Consultant of the same presented as under:

<table>
<tr><th>S.No.</th><th>Item</th><th>Details</th></tr>
<tr><td>1.</td><td>Online Proposal No.</td><td>SIA/PB/NCP/29524/2018</td></tr>
<tr><td>2.</td><td>Name and Location of the project</td><td>Expansion of group housing project namely "Hero Homes" located at Sector 88, SAS Nagar, Mohali (Punjab) by M/s Hero Realty Pvt. Ltd.</td></tr>
<tr><td>3.</td><td>Latitude & Longitude</td><td>Corners coordinates:
<table>
<tr><td>Corner</td><td>Latitude</td><td>Longitude</td></tr>
<tr><td>Corner-A</td><td>30°41'20.98"N</td><td>76°41'32.63"E</td></tr>
<tr><td>Corner-B</td><td>30°41'17.29"N</td><td>76°41'27.02"E</td></tr>
<tr><td>Corner-C</td><td>30°41'7.02"N</td><td>76°41'35.80"E</td></tr>
</table></td></tr>
</table>

			Corner-D	30°41'10.62"N	76°41'41.36"E	

4.	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	The project falls under Sr .No. 8(b) Township & Area Development Projects.
5.	Whether the project is in critical polluted area or not.	Project does not falls in the critically polluted area. General conditions are not applicable on Construction projects.
6.	Does the project involves diversion of forest land.	No. Project does not involve any diversion of forest land.
7.	a) Does the project covered under PLPA, 1900, if No but located near to PLPA area then the project proponent is required to submit NOC from the concerned DFO to the effect that project area does not fall under the provision of PLPA Act, 1900..	Project is not covered under PLPA, 1900.
8.	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 National Board for Wild Life (NBWL).	City Bird Sanctuary – 8.75 KM – ENE Direction The Eco-sensitive Zone varies from 80 to 125 meters from the City Bird Sanctuary comprising an area of 12.0 hectares approximately Not Required
9.	Classification/Land use pattern as per Master Plan	Residential zone as per Master plan of SAS Nagar.
10.	Cost of the project	Rs. 233 Crores

11.	Total Plot area, Built- up Area and Green area	The details of project is as under:

S.No.	Description	Area
1.	Plot area (Total scheme area)	74,826.2565 (or 18.49 acres)
2.	Built-up area	2,70,219.699m^2
3.	Green area	18,764.346 m^2

12.	Population (when fully operational)	Estimated population: 12,180 Persons.

Residents	6905
Visitors	690
Staff	110
Community Building:	

		Visitors	4351
		Convenient Shopping:	
		Visitors	124

13. Water Requirements & source in Construction Phase

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

Total water requirement for the project after expansion will be 1139 KLD; out of which fresh water requirement will be 680 KLD. Break-up of the same is given below:

S. No.	Description	Existing water demand (KLD)	Water demand after expansion (KLD)
1.	Total water demand	725	1139
2.	Waste water demand	580	885

Water requirement

S.N.	Description	Quantity (KLD)	Source of water
1.	Domestic water demand	650	GMADA
2.	Make-up water demand for Swimming Pool	30	GMADA
3.	Flushing purposes	365	GMADA's STP
4 (a)	Green area water demand (Summer Season)	94	GMADA's STP
4 (b)	Green area water demand (Winter Season)	34	GMADA's STP
4 (c)	Green area water demand (Rainy Season)	10	GMADA's STP

14. Break up of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):

S.No.	Season	Fresh water		Reuse water			Total (KLD)
		Domestic (KLD)	Others	Flushing (KLD)	Green area (KLD)	HVAC (KLD)	
1.	Summer	680	-	365	94	-	1139
2.	Winter	680	-	365	34	-	1079
3.	Rainy	680	-	365	10	-	1055

S.No.	Description	Source of water
1.	Domestic	GMADA
2.	Others	-
3.	Flushing purposes	Treated waste water
4.	Green area	Treated waste water
5.	HVAC	-

15.	Treatment & Disposal arrangements of waste water in Construction Phase	Wastewater generated will be treated in STP of GMADA.
16.	Disposal Arrangement of Waste water in Operation Phase	885 KLD wastewater will be generated which will be discharged into GMADA sewer and same will be treated in STP of GMADA . The details of treated waste water collected from STP of GMADA for flushing and horticulture purpose is as under:-

Season	Flushing (KLD)	Green area (KLD)
Summer	365	94
Winter	365	34
Monsoon	365	10

17.	Rain water recharging detail	2,047.5 m^3/hr rain water will be collected in 11 no. of Rain water recharging pits.
18.	Solid waste generation and its disposal	a) 4,256 kg/day b) Solid wastes will be appropriately segregated (at source by providing bins) into recyclable, Bio-degradable Components and non-biodegradable. c) Separate area will be earmarked for segregation of solid waste. d) Bio-degradable waste will be composted by use of Organic Waste Converter. e)Recyclable waste will be sold to recyclers.
19.	Hazardous Waste & E- Waste	Used oil from DG sets will be stored in HDPE drums in isolated covered facility and will disposed of as per the Hazardous Waste (Management & Transboundry Movement) Rules, 2016. E-waste will be disposed off as per the E-waste (Management) Amendment Rules 2018.

20. Energy Requirements & Saving

The details of the energy is given below and source will be PSPCL.

S. No.	Description	Existing	After expansion	Total (Existing + Expansion)
1.	Power load	5550 kVA	2313.12 kVA	7863.12 kVA
2.	D.G sets	3 DG sets (1* 500 kVA+ 1 *1000 Kva+ 1*1500 kVA)	3 DG sets (1*500 kVA+ 2*1000 kVA)	6 DG sets of combined capacity 5500 kVA (3*1000 kVA + 1*1500 kVA + 2*500 kVA)

Energy Saving measures for expansion phase:

i) 23.98 % energy will be saved by use of LEDs in place of GLS lamp.
2.64 % energy will be saved by use of Solar power plant.

21. Environment Management Plan along with Budgetary break up phase wise and responsibility to implement

Description	Capital cost (lakhs)	Recurring cost (lakhs)	Monitoring of Air, Noise, water (per annum) (lakhs)
Construction	30.5	7.62	7.0
Operation	68.0	27.7	9.0

22. CER activities along with budgetary break up and responsibility to implement

Sandeep Sehgal (VP-Project) of promoter company will be responsible for implementation CER Activities. An amount of Rs. 174.75 Lacs [@ 0.75 % of Total project cost for Expansion] will be earmarked under Corporate Environment Responsibility (CER) for the following activities:

S.No.	CER Activities	Year-wise Implementation budget in Lacs (INR)			Total budget in Lacs (INR)
		1st year	2nd year	3rd year	
	• Electrification	6.99	15.73	19.22	41.94
	• Rain water Harvesting	1.75	3.48	5.24	10.47
	• Avenue Plantation	13.98	18.35	26.22	58.55
	• Drinking Water Supply	6.99	11.36	13.11	31.46
	• Sanitation & Health Education	8.74	12.23	11.36	32.33
				Total	174.75

SEAC raised following queries to the project proponent and the project proponent replied as under:

Sr. No.	Observations	Reply submitted by the project proponent and his Environmental Consultant
i)	What is the proposal for the project proponent for installing the STP.	The project proponent informed that allotment letter indicates that water & sewerage connection will be provided by GMADA. GMADA shall be provided domestic water connection and the tertiary effluent to the allottee for use in flushing & gardening purposes. The allottee shall be entitled for the sewer & storm water connection in the main sewer & storm network developed by GMADA. Thus, the project proponent is not required to install its own STP.
ii)	The project proponent is required to submit revised no. of rain water harvesting pits alongwith calculations of the same.	The project proponent submitted the revised calculations for collection of the rain water harvesting pits, which was taken on record by the SEAC. As per the said calculations, total Run off in Cum/hr is 1487279.66 and total 19 pits will be provided by the project proponent.
iii)	Submit Revised CER as per OM dated 01.05.2018	Revised CER submitted by the project proponent is as under:-

S.No.	CER Activities	Year wise implementation budget in Lacs (INR)					Fund allocated (Lakhs)
		1st year	2nd year	3rd year	4th year	5th year	
	• Electrification	3.75	3.75	3.75	3.74	3.74	18.73
	• Rain water Harvesting	2.09	2.09	2.09	2.09	2.09	10.47
	• Avenue Plantation	4.05	4.05	4.05	4.05	4.05	20.25
	• Drinking Water Supply	2.00	2.00	2.00	2.00	2.00	10.00
	• Sanitation & Health Education	3.06	3.06	3.06	3.06	3.06	15.30

	• Development of 4 ponds in nearby villages		25.0	25.0	25.0	25.0	100.0
	Total	14.95	34.95	34.95	34.94	34.94	174.75

SEAC was satisfied from the presentation and reply given to the observation. SEAC took a copy of presentation along with reply on record.

3.0 Recommendations

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 recommendations to grant Environmental Clearance for expansion of the project namely "Hero Homes" having built up area 2,70,219.69 sqm (after Expansion) in total land area of 74826.2565 sqm located at Sector 88, SAS Nagar, Mohali (Punjab), as per the details mentioned in the Form 1, 1A, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with, proposed measures, conditions prescribed in **Annexure-I** subject to following additions amendments and deletions and special conditions given as under :-

Conditions to be added in the Annexure-I as under :

Condition no. xxiv) of III. Water quality monitoring and preservation

xxiv) The waste water generated from swimming pool(s) shall not be discharged and the same shall be reused within the premises for purposes such as horticulture, HVAC etc.

Conditions to be amended in the Annexure-I as under :-

Condition no. iv), v-a) & xv) of III. Water quality monitoring and preservation

iv) The total water requirement for the project will be 1139 KL/day, out of which fresh water demand of 680 KL /day shall be met through GMADA supply and remaining through recycling of treated waste water from the STP of GMADA. Total fresh water use shall not exceed the proposed requirement as provided in the project details.

v) a)The total wastewater generation from the project will be 885 KL/day, which will be treated in STP provided by GMADA outside the project premises. As proposed, reuse of treated wastewater obtained from GMADA STP shall be as under:-

S. No.	Season	For Flushing purposes (KLD)	Green Area (KLD)
1.	Summer	365	94
2.	Winter	365	34
3.	Rainy	365	10

xxv) The CGWA provisions on rain water harvesting should be followed. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. As per the proposal submitted by the project proponent 19 no. rain water harvesting recharge pits /storage tanks shall be provided for ground water recharging as per the CGWB norms The ground water shall not be withdrawn without approval from the Competent Authority.

X. Condition no. i) & iv) of X of Corporate Environment Responsibility

i) The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least minimum amount of Rs.174.75 Lacs [@ 0.75% of total project cost for expansion] towards following CER activities. The details are given below: -

S. No	CER Activities	Year wise implementation budget in Lacs (INR)					Fund allocated (Lakhs)
		1st year	2nd year	3rd year	4th year	5th year	
i)	Electrification	3.75	3.75	3.75	3.74	3.74	18.73
ii)	Rain water Harvesting	2.09	2.09	2.09	2.09	2.09	10.47
iii)	Avenue Plantation	4.05	4.05	4.05	4.05	4.05	20.25
iv)	Drinking Water Supply	2.00	2.00	2.00	2.00	2.00	10.00
v)	Sanitation & Health Education	3.06	3.06	3.06	3.06	3.06	15.30
vi)	Development of 4 ponds in nearby villages		25.0	25.0	25.0	25.0	100.0
	Total	14.95	34.95	34.95	34.94	34.94	174.75

iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall spend minimum amount of Rs 30.5 Lacs towards capital cost and Rs 14.62 Lacs/annum towards recurring cost in Construction phase of the project including the environmental monitoring cost and shall spend minimum amount of Rs 68.0 Lacs/annum towards capital cost

and Rs 36.7 lacs/year towards recurring cost in operation phase of the project including the environmental monitoring cost. The entire cost of the environmental management plan will continue to be borne by the project proponent until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

Item No 187.10 Application for issuance of TOR for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of Mega Residential Project "The Palm" located at Villages Mullanpur Garibdas, Dhanauran & Mastgarh, New Chandigarh, Mohali, S.A.S Nagar, Punjab by M/s Manohar Infrastructure & Constructions Pvt. Ltd. (Proposal No. SIA/PB/NCP/34917/2019).

SEAC observed as under:-

1.0 Background

The project proponent has applied for issuance of TORs for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for establishment of Mega Residential Project "The Palm" located at Villages Mullanpur Garibdas, Dhanauran & Mastgarh, New Chandigarh, Mohali, S.A.S Nagar, Punjab.

Environmental Engineer, PPCB, Nodal Office, Mohali was requested vide email dated 14.10.2019 and again on 16.02.2020 to send the construction status of the project site. However, report is yet awaited. SEAC was apprised that the Environmental Engineer, PPCB, Nodal Office, Mohali vide letter no. 1235 dated 19.02.2020 has sent the latest status report and the contents of the letter are reproduced as under:

"In reference to your e-mail under reference, it is intimated that the site of the subject cited project was visited by AEE of this office on 12.02.2020 and Mr. Pawan Sharma, Architect of the project site was contacted and it was observed as under:

1. That the project is adjoining to the already existing project Curo North Square, Village Mullanpur, Garibdass by M/s Curo India Pvt., Limited at the front side of the project.
2. The project proponent had earlier obtained NOC for the project vide no. CTE/Exp/SAS/2018/7069127 dated 23.05.2018 valid upto 31.03.2020 for an area of 192.459 acre (net planned area 118.04 acre) having 862 residential plots, 11 public building, EWS flats in an area of 6.84 acre and commercial area of 2.04 acre with the conditions that:-
   (a) The promoter shall ensure the compliance of provisions (including providing of 15 meter green belt towards air pollution industries) contained in notification no. 3/6/07-STE(4)2274 dated 25.07.2008 notified by the

Government regarding siting policy/guidelines for establishment of residential colonies, commercial establishments like shopping malls, multiplexes in the State of Punjab, before starting any development/construction activities at site.

(b) The promoter shall immediately stop construction activities in the township and restart only after obtaining environmental clearance under the provision of the EIA Notification dated 14.09.2006.

(c) The promoter shall submit the approved layout plan for the total area before starting any construction/development activities in the additional area of 74.4 acre.

3. About 50 plots owned by individuals are either under construction or have been constructed. Further, 34 plots having G+2 configuration are being constructed by the promoter company. However, all of this construction has taken place in the land for which the earlier layout plan was approved. In the land added by the promoter company, no construction activity has been started and only the boundary wall has been constructed in few no. plots.

As per the boundary limits site shown by the representative of the promoter company during the visit, there is no MAH industry within a radius of 250 m from the boundary of the proposed site of the project. There is no rice sheller/ saila plan// stone crushing/ screening cum washing unit/ hot mix plant within a radius of 100m from the boundary of the project. There is a brick kiln namely M/s Dilbagh Singh brick kiln, village Mullanpur, boundary of which is located at distance of about 60m from the boundary of the residential project, as such, the promoter company is required to provide 15m green belt of the broad leaf trees towards the said brick kiln, so as to comply with the stipulations of the order dated 25.07.2008 as amended on 30.10.2009. Further, the Board while sending comments to the Department of Housing and Urban Development vide letter no. 1409 dated 10.03.2016, had also imposed a condition that the promoter company shall develop 15m green belt of broad leaf trees towards the brick kiln namely M/s Dilbagh Singh brick kiln, village Mullanpur, so as to attenuate the air pollution being generated from this brick kiln.

This is for information and further necessary action please."

2.0 Delibration during 187th meeting held on 26.02.2020

The case was considered by SEAC in its 187th meeting held on 26.02.2020 and was attended by the following on behalf of the project proponent:

i) Sh. Surinder Talwar, Manager, on behalf of the promoter company.
ii) Ms. Priyanka Madan, M/s Eco Laboratries and Consultants Pvt. Ltd.

SEAC was apprised that as per the visit report sent by EE, Mohali, no construction has been started by the project proponent for the proposal for which expansion has been

sought. Thereafter, SEAC allowed the Project proponent to present the salient features of the project and the Environmental Consultant of the same presented as under:

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/NCP/34917/2019
2.	Name and Location of the project	Mega Residential Project "The Palm" located at Villages Mullanpur Garibdas, Dhanauran & Mastgarh, New Chandigarh, Mohali, S.A.S Nagar, Punjab by M/s Manohar Infrastructure & Constructions Pvt. Ltd.
3.	Latitude & Longitude	Corners coordinates A: 30.464307 N & 76.435618 E B: 30.470816 N & 76.435250 E C: 30.474981 N & 76.447546 E D: 30.475319 N & 76.445784 E E: 30.470424 N & 76.452656 E
4.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	The project falls under S.No. 8(b) - 'Township and Area Development'
5.	Whether the project is in critical polluted area or not.	No
6.	Does the project involve diversion of forest land.	No. Project does not involve any diversion of forest land.
7.	Does the project covered under PLPA, 1900, if No but located near to PLPA area then the project proponent is required to submit NOC from the concerned DFO to the effect that project area does not fall under the provision of PLPA Act, 1900.	Project is not covered under PLPA 1900. However, NOC has also been obtained from DFO, S.A.S Nagar for the complete project.
8.	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 National Board for Wild	Sukhna Wildlife Sanctuary and City Bird Sanctuary are located at distance of 5.6 km and 6.8 km respectively from the project location and application has been submitted for NBWL clearance.

<table>
<tr><td></td><td>Life (NBWL).</td><td></td></tr>
<tr><td>9.</td><td>Classification / Land use pattern as per Master Plan</td><td>Residential zone as per Master plan of Mullanpur.

CLU was obtained for 131.55 acres of land and later on, additional CLU of 60.909 acres has been obtained</td></tr>
<tr><td>10.</td><td>Cost of the project</td><td>Rs. 914.20 Crores</td></tr>
<tr><td>11.</td><td>Total Plot area, Built- up Area and Green area</td><td>FOR NEW PROJECTS:
The details of project is as under:
<table>
<tr><th>S.No.</th><th>Description</th><th>Area</th></tr>
<tr><td>1.</td><td>Plot area (Total scheme area)</td><td>6,11,439.536 m^2 (or 151.09 acres)</td></tr>
<tr><td>2.</td><td>Built-up area</td><td>8,53,320.49 m^2</td></tr>
<tr><td>3.</td><td>Green area</td><td>34,034.0625 m^2</td></tr>
</table></td></tr>
<tr><td>11 a</td><td>EC fee details</td><td>Rs 213330/- Vide R. No 4365 dated 03.10.2019 Submitted through
DD No 040438 dated 07.09.2019</td></tr>
<tr><td>12.</td><td>Population (when fully operational)</td><td>Estimated population: 21,200 Persons.</td></tr>
<tr><td>13.</td><td>Water Requirements & source in Construction Phase</td><td>20 KLD of water will be required during construction phase which will be met by Private water tankers.</td></tr>
<tr><td>14.</td><td colspan="2">Break up of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):
<table>
<tr><th rowspan="2">S. No.</th><th rowspan="2">Season</th><th colspan="2">Fresh water</th><th colspan="3">Reuse water</th><th rowspan="2">Total (KLD)</th></tr>
<tr><th>Domestic (KLD)</th><th>Others (KLD)</th><th>Flushing (KLD)</th><th>Green area (KLD)</th><th>HVAC (KLD)</th></tr>
<tr><td>1.</td><td>Summer</td><td>1,847</td><td>-</td><td>924</td><td>187</td><td>-</td><td>2,958</td></tr>
<tr><td>2.</td><td>Winter</td><td>1,847</td><td>-</td><td>924</td><td>61</td><td>-</td><td>2,832</td></tr>
<tr><td>3.</td><td>Rainy</td><td>1,847</td><td>-</td><td>924</td><td>17</td><td>-</td><td>2,788</td></tr>
</table>
<table>
<tr><th>S.No.</th><th>Description</th><th>Source of water</th></tr>
<tr><td>1.</td><td>Domestic</td><td>Ground water</td></tr>
<tr><td>2.</td><td>Others (Pl define)</td><td>-</td></tr>
<tr><td>3.</td><td>Flushing purposes</td><td>Treated waste water</td></tr>
<tr><td>4.</td><td>Green area</td><td>Treated waste water</td></tr>
<tr><td>5.</td><td>HVAC</td><td>-</td></tr>
</table></td></tr>
<tr><td>15.</td><td>Treatment & Disposal arrangements of waste water in Construction Phase</td><td>Mobile STP of capacity 10 KLD
Treated water from mobile STP will be 8 KLD out of which 3 KLD will be used for dust suppression and 5 KLD will be used for green area of 506 m^2.</td></tr>
<tr><td>16.</td><td>Disposal Arrangement of Waste water in Operation Phase</td><td>Total wastewater generation will be 2,598 KLD which will be treated in proposed STP of 3 MLD based on MBBR technology to be installed within project</td></tr>
</table>

<table>
<tr><td></td><td></td><td>premises. The details of breakup of utilization of waste water is as under:-
<table>
<tr><th>Season</th><th>Flushing (KLD)</th><th>Green area (KLD)</th><th>MC Sewer (KLD)</th></tr>
<tr><td>Summer</td><td>924</td><td>187</td><td>1,243</td></tr>
<tr><td>Winter</td><td>924</td><td>61</td><td>1,369</td></tr>
<tr><td>Monsoon</td><td>924</td><td>17</td><td>1,137</td></tr>
</table></td></tr>
<tr><td>17.</td><td>Rain water recharging detail</td><td>16,467 m^3/hr of rain water will be collected in 132 no. of recharging pits with 172 overall bores which will be provided.</td></tr>
<tr><td>18.</td><td>Solid waste generation and its
disposal</td><td>a) 8,279 kg/day
b) Solid waste will be duly segregated (at source by providing bins) into recyclable, Bio-degradable Components and non bio-degradable.
c) 3,725 kg/day of Bio-degradable will be processed by 4 Mechanical composters of size 1000 kg each.
d) 4,387 kg/day recyclable waste will be sold to authorized recyclers.
e) Inert waste will be dumped to designated dumping site</td></tr>
<tr><td>19.</td><td>Hazardous Waste & E- Waste</td><td>Used oil from DG sets will be sold to registered recyclers and E-waste will be disposed off as per the E-waste (Management) Amendment Rules 2018.</td></tr>
<tr><td>20.</td><td>Energy Requirements & Saving</td><td>a) 11,888 KW from PSPCL.
b) 2 x 62.5 KVA capacity each (silent DG sets)
<u>Energy Saving measures:</u>
c) LEDs will be used in place of CFL
d) Solar lights will be used for lighting the streets</td></tr>
<tr><td>21.</td><td colspan="2">CER activities along with budgetary break up and responsibility to implement</td></tr>
<tr><td colspan="3">Mr. Tarinder Singh will be responsible for implementation of the CSR activities. The estimated cost of project is Rs. 914.20 Crores; out of which; Rs. 514.29 Crores have been incurred till 31.03.2019. Thus, Rs. 2 Crores (@ 0.50% of remaining cost i.e. Rs. 399.91) is required for C.E.R activities as per Office Memorandum vide F. No. 22-65/ 2017-IA.III dated 01.05.2018. However, Rs. 1 Crore has been spent on CSR. The following activities have been proposed to be covered under CER
<table>
<tr><th rowspan="2">S.No.</th><th rowspan="2">CER Activities</th><th rowspan="2">Fund allocated (Lakhs)</th><th colspan="2">Time schedule</th></tr>
<tr><th>Start</th><th>Completed</th></tr>
<tr><td>1.</td><td>Maintenance of School Building, Construction of Toilets and Installation of RO system at Govt. Senior Secondary School, Mullanpur Garibdass.</td><td>85</td><td>After Grant of EC</td><td>7 Years</td></tr>
</table></td></tr>
</table>

2.	Adoption of pond in Village Mastgarh	30	After Grant of EC	7 Years
3.	Installation of solar lights in Villages of Mastgarh and Mullanpur Garibdass	15	After Grant of EC	7 Years
4.	Health Facilities like provision of ambulance, wheel chairs and health checkup camps in nearby villages	50	After Grant of EC	7 Years
5.	Promoting tree plantation & maintenance in nearby surrounding areas	20	After Grant of EC	7 Years
	Total	**200**		

SEAC raised following queries to the project proponent and the project proponent replied as under:

Sr. No.	**Observations**	**Reply submitted by the project proponent and his Environmental Consultant**
1.	What is the present construction status?	Construction work on about 50 plots is undergoing. The said plots are part of the project for which previous Environmental Clearance was obtained.
2.	Whether any proposal has been made regarding Environmental Management Plan?	The same will be submitted at the time of application for obtaining Environmental Clearance.

SEAC took a copy of presentation given by the project proponent and his environmental consultant on record.

3.0 Recommendations

After detailed deliberations, SEAC decided to recommend SEIAA as under :

1) To issue Terms of References (ToRs) for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of Mega Residential Project "The Palm" located at Villages Mullanpur Garibdas, Dhanauran & Mastgarh, New Chandigarh, Mohali, S.A.S Nagar, Punjab as per the **Annexure-II** and additional TORs as under:-

28) Submit the layout plan of the project after making the provision of 15m green belt of the broad leaf trees towards the brick kiln (M/s Dilbagh Brick kiln) , in compliance to Govt. Notification dated 25.07.2008 as amended on 30.10.2009.

2) Northern Regional Office, MoEF Chandigarh be requested to send compliance report of the conditions of Environmental Clearance granted to the project proponent earlier in compliance to the OM dated 07.09.2017

Item No 187.11: Application for issuance of TOR under EIA notification dated 14.09.2006 for the expansion of residential apartment complex"AGI Sky Garden" located at Village Khazurla, G. T. Road, Tehsil Phagwara, Distt. Kapurthala (Punjab) by M/s A G I INFRA LIMITED. (Proposal No. SIA/PB/NCP/ 47588/2019).

SEAC observed as under:-

1.0 Back ground

The project planning has already obtained Environmental Clearance vide no. SEIAA/2018/339, dated 21.03.2018 from the SEIAA, Punjab for total built-up area of 146685 m2 with certain conditions.

Now, the project proponent has applied for issuance of TORs for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the expansion of residential apartment complex "AGI Sky Garden" located at Village Khazurla, G. T. Road, Tehsil Phagwara, Distt. Kapurthala (Punjab) wherein the total built-up will increase to 250047 sqm.

2.0 Delibration during 187th meeting held on 26.02.2020

The case was considered by SEAC in its 187th meeting held on 26.02.2020 and was attended by the following on behalf of the project proponent :

i) Sh. Ashwani Aggarwal, GM, of the promoter company.
ii) Sh. S. Dutta, FAE, M/s CPTL- Mohali.

SEAC was apprised that the Environmental Engineer, Regional Office, Jalandhar vide email dated 25.02.2020 has intimated that the proposed site was visited by AEE of his office on 21.02.2020 and observed that the project proponent has not started any construction activity w.r.t proposed project at site yet.

SEAC allowed the Project proponent to present the salient features of the project and the Environmental Consultant of the same presented as under:

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/NCP/47588/2019
2.	Name and Location of the project	AGI Sky Garden Village Khazurla, G. T. Road, Tehsil Phagwara, Distt. Kapurthala (Punjab)
3.	Latitude & Longitude	30°16'49" N, 75°40'35" E

4.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	Category 8(b) – Total built-up area >150000 m^2
5.	Whether the project is in critical polluted area or not.	No
6.	If the project involves diversion of forest land. If yes, a. Extent of the forest land. b. Status of the forest clearance.	No
7.	Does the project covered under PLPA,1900, if No but located near to PLPA area then the project proponent is required to submit NOC from the concerned DFO to the effect that project area does not fall under the provision of PLPA Act, 1900.	No
8.	Does the project fall within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary.	No
9.	Classification/Land use pattern as per Master Plan	Mixed Land Use, Land falls within LPA of Jalandhar and is meant to be developed as residential area as per the master plan.
10.	Cost of the project	Existing: Rs. 23510 lacs; Proposed: Rs. 13000 lacs; Total: Rs. 36510 lacs
11.	Total Plot area, Built-up Area and Green area	See table below
12.	EC fee details	Rs 30000/- Vide DD No 418070 dated 16.11.2019

	Existing	**Proposed**	**Total**
Total land area (net)	~50585 m2 (~12.5 acres)	~25596 m2 (~6.325 acres)	~76181 m2 (~18.825 acres)
Total built-up area, m^2	~146685	~103362	~250047
Area under parks/play grounds/green area, m^2	~10913	~6995	~17868 (~23.5%)

<table>
<tr><td>13.</td><td>Population (when fully operational)</td><td><table>
<tr><th>Details</th><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>Expected population (fixed)</td><td>~6400</td><td>~3100</td><td>~9500</td></tr>
</table></td></tr>
<tr><td>14.</td><td>Water Requirements & source in Construction Phase</td><td>~25 KLD
To be met from treated wastewater from the existing STP in premises</td></tr>
<tr><td>15.</td><td>Source of Water</td><td>Purposes — Source
Domestic — Ground water

For Flushing purposes — Treated waste water
Green Area
HVAC If any</td></tr>
<tr><td>16.</td><td>Treatment & Disposal arrangements of waste water in Construction Phase</td><td>Existing STP

Green area ~17868 m^2</td></tr>
<tr><td>17.</td><td>Solid waste generation and its disposal</td><td>a) 4400 kg/day
b) Detailed management of MSW to be discussed in the EIA report</td></tr>
<tr><td>18.</td><td>Hazardous Waste & E-Waste</td><td>Detailed management of hazardous waste to be discussed in the EIA report</td></tr>
</table>

SEAC raised following queries to the project proponent and the project proponent replied as under:

Sr.No.	Observations	Reply
1.	Whether any proposal has been made regarding Environmental Management Plan and CER?	The same will be submitted at the time of submission of EIA report for obtaining Environmental Clearance.
2.	The project proponent has not submitted complete water balance for different seasons.	The same will be submitted at the time of submission of EIA report for obtaining Environmental Clearance.
3.	Details regarding Rain Water Recharging have not been submitted.	The same will be submitted at the time of submission of EIA report for obtaining Environmental Clearance.
4.	Details regarding energy conservation measures has not been submitted.	The same will be submitted at the time of submission of EIA report for obtaining Environmental Clearance.

SEAC took a copy of presentation given by the project proponent and his environmental consultant on record.

3.0 Recommendations

After detailed deliberations SEAC decided as under:

1. To issue Terms of References (ToRs) for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the expansion of residential apartment complex"AGI Sky Garden" located at Village Khazurla, G. T. Road, Tehsil Phagwara, Distt. Kapurthala (Punjab) as per **Annexure-II**
2. Northern Regional office, MoEF Chandigarh be requested to send compliance report of the conditions of Environmental Clearance granted to the project proponent earlier in compliance to OM dated 07.09.2017

Item No. 187.12: Application for issuance of Terms of Reference (TORs) Environmental Clearance under EIA notification dated 14.09.2006 for the Modernization of Residential Township is located at sector- 97, 106 & 107, Mohali, Punjab by M/s Unitech Limited. (Proposal No. SIA/PB/NCP/47473/2019).

SEAC observed as under:

1.0 Back ground

Earlier, M/s Unitech Limited was granted Environmental Clearance vide letter no. 21-660/2006-IA.III dated 30-07-2007 by the MoEF&CC for the development of a residential colony on .a plot area of 135.6 Hectares. The detail of the said Environmental Clearance is given below:-

i) Area under plotted development was 51.86 Hectares. Total numbers of main plots are 1275. Area under Group housing was 8.28 Hectares. Area under commercial was 4.69 Hectares and area for EWS is 6.92 Hectares. Area under Green belt was 9.33. Hectares.

ii) Total water requirement is 6461 KLD and STP was of 5250 KLD capacity. About 4135 KLD of treated effluent will be available from STP for recycling which will be used for flushing of toilets and for horticulture use. The surplus waste water will be discharged in municipal drain.

iii) About 18.5 tonne/day of solid waste was expected to be generated during operation phase. The bio-degradable waste will be disposed of in composting pits. The non-bio-degradable will be disposed on PUDA's approved landfill sites. Total parking proposed was for Group Housing 1-729, Group Housing 2-1338 and for Commercial 570. The total cost of the project was Rs.830 crores.

1.1 Construction Status:

Work was partially completed on the land of 40.0 Acres during the validity period of Environment Clearance and the project is partially occupied.

1.2 Present case

Essential details were sought from the project proponent online on 12.01.2020 to which he replied on 21.01.2020**.**

The project proponent intimated that due to change in planning and reduction in land area, M/s Unitech Limited has applied for proposed development as modernization of Residential Township over the total plot area of 1149470.114 m2 (284.04 Acres) and built up area of 1349336.63 m2 located at sector- 97, 106 & 107, Mohali, Punjab. The details of the project as given in Form I, Form IA,PFR, Proposed ToRs and other documents are as under:

Table: Land Breakup as per prior Environment Clearance

Area	As per EC dated 30 July 2007		
	Sqm	Hectare	Acres
Plot Area	1355698.10	135.6	335.00
Land Surrender	-		-
Net Plot Area	1355698.10	135.6	335.00
Area under plots	518600.00	51.86	128.09
Area under GH	82764.76	8.28	20.4516
Area under Commercial	46880.04	4.69	11.5843
Area under EWS	69170.55	6.92	17.0924
Institutional	104943.22	10.5	25.93201
Green Area	92960.42	9.3	22.971
Road & Open Area	440405.96	44.04	108.8282
Total	1355724.95	135.57	334.95

Table: Land break up after modernization

Area	Sqm	Hectare	Acres
Plot area	1149470.114	114.95	284.04
Plotted	429412.315	42.941	106.11
GH	84267.766	8.427	20.823
commercial	29946.764	2.995	7.4
EWS	55288.201	5.529	13.662
Institutional	104943.174	10.494	25.932
utility	39493.307	3.949	9.759
STP	4127.797	0.413	1.02
Green	73114.620	7.311	18.067
Roads including berms	328876.172	32.888	81.267
Total	1149470.114	114.947	284.040

Table: Details of Plotted Development

Plotted	As per EC	Current plan	Constructed till date	Balance to be constructed	Total after modernization
Area Under plot	518600 sqm (51.86 ha)	429412.315 sqm (42.94 ha)	20840 sqm	408572.315 sqm	429412.315 sqm
FAR (Proposed)	777900 sqm		33579.75	611921.57	645501.32
Non FAR area	233370 sqm		10073.93	183576.48	193650.41
Builtup Area (I)	1011270 sqm		43653.680	795498.05	839151.73
No of plots	1275		92	1033	1125

Table: Details of Group Housing

Group Housing	As per EC	Current plan	Constructed till date	Balance to be constructed	Total after modernization
Area Under GH	82764.76 sqm (8.28 ha)	84267.766 sqm (8.42 ha)	34276.820 sqm	49990.946 sqm	84267.766 sqm
FAR (Proposed)	148976.568 sqm		32348.844	134523.13	166871.974
Non FAR area	101304.0662 sqm		17644.7	99969.72	117614.42
Builtup Area (II)	250280.632 sqm		49993.54	234492.85	284486.39
No of Dwelling units			256	912	1168

Table: Details of commercial

commercial	As per EC	Current plan	Constructed	To be constructed	Total after modernization
Area Under commercial	46880.0 sqm (4.69 ha)	29946.764 sqm (2.99 ha)	No construction	29946.764 sqm (2.99 ha)	29946.764 sqm (2.99 ha)
FAR (Permissible)	82040 sqm			52406.72	52406.72
FAR (Proposed)	81571.2 sqm			52406.72	52406.72
Non FAR area	73414.08 sqm			48240.68	48240.68
Basement Area					
Builtup Area (III)	154985.28 sqm			100647.396	100647.396

Table: Details of Institutional

Institutional	As per EC	Current plan	Constructed	To be constructed	Total after modernization
Area Under Institutional	104943.22 (10.5 ha)	92547.641 sqm (9.25 ha)	Not yet started	92547.641 sqm (9.25 ha)	92547.641 sqm (9.25 ha)
FAR (Permissible)				108216.82	108216.82
FAR (Proposed)	104943.22 sqm			108216.82	108216.82
Non FAR area	15741.48 sqm			16834.29	16834.29
Basement Area					
Builtup Area (IV)	120684.703 sqm			125051.1100	125051.110

Total Built up as Per EC (I+II+III+IV)
=1011270 m^2+250280.632 m^2+154985.28 m^2+120684.703 m^2 =1537220.615 m^2

Total Built up area after modernization (I+II+III+IV)
=839151.73m^2+284486.39m^2+100647.396 m^2+125051.110 m^2 = 1349336.63 m^2

Construction Status

Details	Plotted Development	Group Housing
Area Under plot	20840 m^2	34276.820 m^2
FAR (Proposed)	33579.75 m^2	32348.844 m^2
Non FAR area	10073.93 m^2	6143.630 m^2
Builtup Area (I)	43653.680 m^2	49993.54 m^2
No of plots	92	256

EWS plots are already developed and handed over to authorities.

Already Developed Area Details	
Plotted	5.150 Acres
Group Housing	5.000 Acres
STP	1.020 Acres
Green	6.316 Acres
Area Under Roads, Berms, circulation area including area under undetermined uses	22.514 Acres
Total	40 Acres

- As the Built-up area is more than 1,50,000 m^2, the project comes under Category B; activity 8 (b) of EIA notification 2006 and its subsequent amendments. Hence, we are applying for Terms of Reference for the project.
- The project will include activities such as Group Housing (Main Plots & EWS Plots), Plotted, Commercial and Institutional (N.S. & P.S., High School, Dispensary, ESS, Community Centre, Religious Site and other institutes)
- The total cost of the project shall be Rs. 371.33 Crores.
- The total population of the project after modernization will be 30916.
- After modernization, the total water requirement of the project will be 5065 KLD. Out of which fresh water requirement will be 2894 KLD. The source of water will be Municipal Supply and bore well water after taking permission as per Punjab tubewell act 1954.
- The total waste water generation will be 2670 KLD, the generated waste water will be treated in the Sewage Treatment Plant (STP) of combined capacity 3500 KLD based on MBBR Technology. STP of 75 KLD and 150 KLD are already existing. Total 2430 KLD of treated water will be generated from STP out of which 2171 KLD of treated water will be reused for flushing, gardening, cooling and misc. purposes and remaining 259 KLD will be discharged to sewer line.
- Total 24 Nos. of rainwater harvesting pits (Existing- 10 & Proposed- 14) will be provided to recharge the groundwater.
- The total power requirement will be 34000 kVA out of which 1000 kVA connection has already been taken. Power will be provided by Punjab State Power Corporation Ltd. For back-up purposes, DG Sets of 1x62.5 kVA, 1x125 kVA are already existing and DG sets of 5x1010 kVA are proposed which will be kept in acoustic enclosure. Hence, to avoid the emissions proper stack height of 6m above roof level will be provided as per CPCB norms to reduce the air emissions meeting all the norms prescribed by CPCB..
- The total solid waste generation from the proposed project will be approximately 11454 kg/day. From the proposed project the biodegradable waste of 6871 kg/day will be generated which will be treated in Organic Waste Convertor proposed within the project, recyclable waste of 2290 kg/day and 2290 kg/day plastic waste will be handed over to authorized recycler.
- Used Oil of approx. 50 L/month will be collected in leak proof containers at isolated place and then it will be given to approved recycler.
- E-Waste of approx. 5- 10 kg/month will be collected and given to approved recycler. Parking provision of 3360 ECS is proposed on the surface.

- Green area of 173114.620 m^2 will be provided as mandatory green. Residential plots will have their own green area inside the plots.

2.0 Deliberation during the 187th meeting held on 26.02.2020

The case was considered by SEAC in its 187th meeting held on 26.02.2020 and was attended by the following on behalf of the project proponent:

i) Sh. Sanjey Khanna (GM), and Tarun Sial (AGM) of the project proponent.
ii) Ms. Ekta chugh, M/s Perfact Envirosolution Pvt. Ltd.

SEAC allowed the Project proponent to present the salient features of the project and the Environmental Consultant of the same presented as under:

<table>
<tr><th>Sr. No.</th><th>Item</th><th>Details</th></tr>
<tr><td>1.</td><td>Online Proposal No.</td><td>SIA/PB/MIS/47473/201</td></tr>
<tr><td>2.</td><td>Name and Location of the project</td><td>Modernization of Residential Township is located at sector- 97, 106 & 107, Mohali, Punjab by M/s Unitech Limited</td></tr>
<tr><td>3.</td><td>Latitude & Longitude</td><td>Corner coordinates:
<table>
<tr><th>Point</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>A</td><td>30°40'38.47"N</td><td>76°40'35.6</td></tr>
<tr><td>B</td><td>30°40'0.61"N</td><td>76°41'14.8</td></tr>
<tr><td>C</td><td>30°39'42.36"N</td><td>76°40'34.9</td></tr>
<tr><td>D</td><td>30°40'19.87"N</td><td>76°40'18.81</td></tr>
</table></td></tr>
<tr><td>4.</td><td>Project/activity covered under the item of scheduled to the EIA Notification,14.09.2006</td><td>The project falls under Category ‘B’ Item 8(b) of the schedule of EIA notification, 2006 & its amendments.</td></tr>
<tr><td>5.</td><td>Whether the project is in critical polluted area or not.</td><td>No</td></tr>
<tr><td>6.</td><td>Does the project involves diversion of forest
land.</td><td>No. Project does not involve any diversion of forest land.</td></tr>
<tr><td>7.</td><td>Does the project covered under PLPA,1900,if No but located near to PLPA area then the project proponent is required to submit NOC from the concerned DFO to the effect that project area does not fall under the provision of PLPA Act,1900.</td><td>The project is not covered under PLPA, 1900.</td></tr>
</table>

<table>
<tr><td>8.</td><td>Does the project fall within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary.</td><td>No wildlife or bird sanctuary falls within 10 km of the project site, thus, there is no requirement of NBWL clearance.</td></tr>
<tr><td>9.</td><td>Classification/Land use pattern as per Master Plan</td><td>As per the Master plan of SAS Nagar, Punjab (2031) the site is allocated for residential use.</td></tr>
<tr><td>10.</td><td>Cost of the project</td><td>Rs. 371.33 Crores for the expansion part</td></tr>
<tr><td>11.</td><td>Total Plot area, Built- up Area and Green
area</td><td><table>
<tr><td>S. No.</td><td>Description</td><td>Area</td></tr>
<tr><td>1.</td><td>Plot Area</td><td>11,49,470.11
(284.04 Acre)</td></tr>
<tr><td>2.</td><td>Built-up Area</td><td>13,75,958.67
(340 Acre)</td></tr>
<tr><td>3.</td><td>Green Area</td><td>73,114.62 m^2
(18.067 Acre)</td></tr>
</table></td></tr>
<tr><td>12.</td><td>Population
(whenfully operational)</td><td>Estimated Population: 31,561 No.</td></tr>
<tr><td>13.</td><td>Water Requirements & source in Construction Phase</td><td>20 KLD of water will required during construction phase, out of which 12 KLD of water will be used for 250 nos. of labours for domestic & flushing purpose which will be sourced through tankers from nearby STP and 8 KLD of water will be required for construction purpose through STP treated water from nearby area/ STP supplied through Tankers</td></tr>
<tr><td>14.</td><td colspan="2">Breakup of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):

Total water requirement for the project after expansion will be 5152 KLD; out of which fresh water requirement will be 2981 KLD. Break-up of the same is given below:
Summer:
<table>
<tr><th>S. No.</th><th>Description</th><th>Existing water demand (KLD)</th><th>Water demand after expansion (KLD)</th></tr>
<tr><td>1.</td><td>Cooling water demand</td><td>Not submitted</td><td>100 (Will be met from Process Water Demand)</td></tr>
<tr><td>2.</td><td>Domestic water demand</td><td>Not submitted</td><td>2981</td></tr>
<tr><td>3.</td><td>Process water</td><td>Not submitted</td><td>2171</td></tr>
</table></td></tr>
</table>

Total	-	5152 KLD

Winter:

S. No.	Description	Existing water demand (KLD)	Water demand afte expansion (KLD)
1.	Cooling water demand	Not submitted	80 (Will be met fro Process Water Demand)
2.	Domestic water demand	Not submitted	2981
3.	Process water	Not submitted	1806
Total			4787 KLD

Rainy:

S. No.	Description	Existing water demand (KLD)	Water demand afte expansion (KLD)
1.	Cooling water demand	Not submitted	80 (Will be met fro Process Water Demand)
2.	Domestic water demand	Not submitted	2981
3.	Process water	Not submitted	1634
Total			4615 KLD

S.No.	**Description**	**Source of water**
1.	Domestic	Ground Water
2.	Make-up water demand for cooling	Treated Wastewater
3.	Flushingpurposes	Treated Wastewater
4.	Green area water demand	Treated Wastewater
5.	HVAC	--

15.	Treatment & Disposal arrangements of waste water in Construction Phase	Total waste water generation from the residential township will be 10 KLD. Mobile toilets with septic tank for construction labours will be provided which will be cleaned regularly and hygienic conditions will be maintained at site.
16.	Disposal Arrangement of Waste water in Operation Phase	

Details	Quantity (After expansion)	Remarks

		Industrial Effluent	Nil	This is a Residential Township Project
		Domestic effluent	2740 KLD	The Wastewater will be treated in STP of 3500 KLD (Existing: 75 KLD & 150 KLD, Proposed: 3275 KLD)

17. Rain water recharging detail

24 Nos. of rainwater harvesting pits (Existing- 10 & Proposed- 14) will be provided after modernization.

Size of Existing Pits:

S.no	Location	Size
1	Sector 97	8m X 8m
2	Sector 97	8m X 8m
3	Sector 97	8m X 8m
4	Sector 97	8m X 8m
5	Sector 97	8m X 4.5m
6	Sector 106	5 m dia
7	Sector 106	5 m dia
8	Sector 106	8m X 4.5m
9	Sector 106	8m X 4.5m
10	Sector 106	8m X 8m

18. Solid waste generation and its disposal

i) Total solid waste generation- 11744 kg/day
ii) Solid waste will be appropriately segregated (at source by providing bins) into recyclable, biodegradable Components and non-biodegradable.
iii) 7046 Kg/day of Biodegradable Solid Waste will be Converted into Manure using Composting Pits
iv) 2349 Kg/day of Non-biodegradable will be Handed over to authorized recycler.
v) 2349 Kg/day Plastic waste will be handed over to authorized recycler.

19. Hazardous Waste & E-Waste

The details of the hazardous waste generated is given below:

S. No.	Description	Existing	After expansion

		1.	Cat. 35.1 – Exhaust air or Gas cleaning Residue	NA	NA
		2.	Cat. 5.1 – Used Oil	3 Lit/month	50 Lit/month
		3.	Category 34.3 – ETP sludge	NA	NA
		4.	Category 33.1 – Hazardous chemicals / waste	NA	NA

20. Energy Requirements & Saving

The details of the energy is given below:

S. No.	Description	Existing	After expansion
1.	Power load	1 MVA	34 MVA
2.	D.G sets	2 x 62.5 kVA	5 x 1010 kVA

Energy Saving Measures:

a) LEDs will be used in place of CFL
b) Solar lights will be used for lighting the streets
c) Double reflective glass shall be used in commercial area only.
d) In the Residential part the energy efficient measures will be adopted by individual plot owners.

21. Environment Management Plan along with Budgetary breakup phase wise and responsibility to implement

Description	Capital cost (lakhs)	Recurring cost (lakhs)	Monitoring of Air, Noise, water (per annum) Rs.
Construction	-	-	Will be provided at the time of EIA
Operation	848.1	74.5	Will be provided at the time of

						EIA
22.	CER activities along with budgetary break up and responsibility to implement					
Rs. 278 lakhs (@ 0.75 % of expansion cost) is required for C.E.R activities as per Office Memorandum vide F. No. 22-65/ 2017-IA.III dated 01.05.2018.						

SEAC raised following queries to the project proponent and the project proponent replied as under:

Sr. No.	Observations	Reply submitted by the project proponent and his Environmental Consultant
1.	What is the present construction status.	Total 92 nos of plots having built up area of 43653.680 sqm and 256 no. group housing dwelling units of built up area 49993.54 sqm have been constructed.
2.	What is the reason for reduction in the proposed built up area than the Environmental Clearance granted earlier?	Due to change in planning as per market scenario, the planning has been revised for lesser area.
3.	The project proponent is required to submit complete details of CER activities to be carried out as per OM F. No. 22-65/ 2017-IA.III dated 01.05.2018.	Same will be submitted at the time of submission of EIA report for obtaining Environmental Clearance under the EIA Notification dated 14.09.2006.
4.	The project proponent needs to be submitted water balance diagram for the existing project and after amendment.	Same will be submitted at the time of submission of EIA report for obtaining Environmental Clearance under the EIA Notification dated 14.09.2006.
5.	The project proponent not submitted complete details of the Environment Management Plan.	Same will be submitted at the time of submission of EIA report for obtaining Environmental Clearance under the EIA Notification dated 14.09.2006.

SEAC took a copy of presentation given by the project proponent and his environmental consultant on record.

3.0 Recommendations

After detailed deliberations SEAC decided as under:

1. To issue Terms of References (ToRs) for obtaining Environmental Clearance

under EIA notification dated 14.09.2006 for the Modernization of Residential Township is located at sector- 97, 106 & 107, Mohali, Punjab as per the **Annexure-II**

2. Northern Regional office, MoEF Chandigarh be requested to send compliance report of the conditions of Environmental Clearance granted to the project proponent earlier in compliance to OM dated 07.09.2017

Item No. 187.13: Application for issuance of Terms of Reference (TORs) Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of 600 KLD Common Effluent Treatment Plant (CETP) to be established on Zero Liquid Discharge (ZLD) located at PSIEC Industrial Focal Point, Chanalon (Kurali), Distt. SAS Nagar (Mohali), Punjab by M/s Bansal Envirotech Pvt. Ltd . (Proposal No. SIA/PB/MIS/50730/2020).

SEAC observed as under

1.0 Back ground

M/s Bansal Envirotech Pvt. Ltd has filed an application for issuance of Terms of Reference (TORs) Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of 600 KLD Common Effluent Treatment Plant (CETP) to be established on Zero Liquid Discharge (ZLD) located at PSIEC Industrial Focal Point, Chanalon (Kurali), Distt. SAS Nagar (Mohali), Punjab. The project proponent submitted Form I, Form IA,PFR, Proposed ToRs and other documents

2.0 Delibration during 187th meeting held on 26.02.2020

The case was considered by SEAC in its 187th meeting held on 26.02.2020 and was attended by the following on behalf of the project proponent:

i) Sh. Siddharth Bansal , CEO of the promotor company.
ii) Sh. Ishnoor Bains, Head Operation of the promoter company
iii) Ms. Priyanka Madan, M/s ECO Laboratories & Consultants Pvt. Ltd.

SEAC was apprised that in response to the SEAC email dated 17.02.2020, Environmental Engineer, Regional office, Mohali vide letter no 1233 dated 19.02.2020 (received email dated 20.02.2020) informed that the site of the project was visited by AEE of his office on 17.02.2020 and Mr. Sidharth Bansal, Director of the project site was contacted and it was observed as under:

i) That the proposed site was located in Industrial Focal Point, Chanalon and was adjoining the STP of capacity 2 MLD provided by PSIEC.

ii) The site was a vacant plot and boundary wall had been provided in patches. No construction activity of any kind was started at the site.

iii) The site was surrounded by industry of various types from 3 sides. He further intimated that village Singhpura was at about distance of 350m from the back side of the proposed site. However, the exact distance from lal lakir/ phirni of the Village, National Highway etc. was not available on record. The site is located in designated Industrial Focal Point, Chanalon.

SEAC observed that no construction activity has been stated by the project proponent. Thereafter, SEAC allowed the Project proponent to present the salient features of the project and the Environmental Consultant of the same presented as under:

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/MIS/50730/2020
2.	Name and Location of the project	600 KLD Common Effluent Treatment Plant (CETP) to be established on Zero Liquid Discharge (ZLD) located at PSIEC Industrial Focal Point, Chanalon (Kurali), Distt. SAS Nagar (Mohali), Punjab by M/s Bansal Envirotech Pvt. Ltd.
3.	Latitude & Longitude	Corners co-ordinates: A: 30.812952°N & 76.579903°E B: 30.813358°N & 76.579896°E C: 30.813309°N & 76.580901°E D: 30.812952°N & 76.580904°E
4.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	The project falls under Schedule 7(h): Common Effluent Treatment Plant (CETP).
5.	Whether the project is in critical polluted area or not.	No. The project is located at PSIEC Industrial Focal Point, Chanalon (Kurali), Distt. SAS Nagar (Mohali), Punjab which does not fall under any critical polluted area notified by MoEF&CC.
6.	If the project involves diversion of forest land. If yes, a. Extent of the forest land. b. Status of the forest clearance.	No. Project does not involve any diversion of forest land.
7.	Does the project covered under PLPA, 1900, if No but located near to PLPA area then the project proponent is required to submit NOC from the	No. The Project is not covered under PLPA 1900.

<table>
<tr><td></td><td>concerned DFO to the effect that project area does not fall under the provision of PLPA Act, 1900.</td><td></td></tr>
<tr><td>8.</td><td>Does the project fall within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary.</td><td>No. The project doesn't falls within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary.</td></tr>
<tr><td>9.</td><td>Classification/Land use pattern as per Master Plan</td><td>The project falls under Disposal work in layout plan of PSIEC, Industrial Focal Point, Chanalon, Kurali.</td></tr>
<tr><td>10.</td><td>Cost of the project</td><td>Rs. 6.0 Crores</td></tr>
<tr><td>11.</td><td>Project details</td><td>The details of project is as under:
<table>
<tr><th>Sr. No.</th><th>Description</th><th>Area</th></tr>
<tr><td>1.</td><td>Plot area</td><td>4,303.8207 m^2 (or 1 acre or 4,853.15 sq.yards)</td></tr>
<tr><td>2.</td><td>Proposed CETP capacity</td><td>600 KLD CETP based on ZLD. 300 KLD in phase-I and additional 300 KLD capacity in Phase-II.</td></tr>
</table></td></tr>
<tr><td></td><td>EC fee details</td><td>Rs 15000/- (25% of total fee) vide UTR No. 29201047740090 dated 29.01.2020</td></tr>
<tr><td></td><td>Raw Materials</td><td>Acid/Alkali for Equalization Tank, Lime/ Caustic, Alum/ PAC, Poly, SMBS, Antiscalent, Hypochloride for Membrane Cleaning, Hydro Chloric Acid for Membrane Cleaning and RO cleaning Chemicals.</td></tr>
<tr><td>12.</td><td>Population (when fully operational)</td><td>Total Manpower for the proposed project will be 45 persons. Out of which, 5 persons will be residing within the project and remaining will be floating, including drivers.</td></tr>
<tr><td>13.</td><td>Water Requirements & source in Construction Phase</td><td>5 KLD of water will be required during construction phase which will be met by Private water tankers.</td></tr>
<tr><td>14.</td><td colspan="2">Break up of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):
<table>
<tr><td rowspan="2">S.No.</td><td rowspan="2">Season</td><td>Fresh water</td><td></td><td>Reuse water</td><td></td><td></td><td rowspan="2">Total (KLD)</td></tr>
<tr><td>Domestic</td><td>Others (KLD)</td><td>Flushing (KLD)</td><td>Green area</td><td>HVAC (KLD)</td></tr>
</table></td></tr>
</table>

		(KLD)			**(KLD)**		
1.	Summer	2.5	-	0.8	7	-	10.3
2.	Winter	2.5	-	0.8	2.5	-	5.8
3.	Rainy	2.5	-	0.8	0.6	-	3.9

S.No.	**Description**	**Source of water**
1.	Domestic	PSIEC
2.	Others (Pl define)	-
3.	Flushing purposes	Treated wastewater
4.	Green area	Treated wastewater
5.	HVAC	-

15.	Treatment & Disposal arrangements of wastewater in Construction Phase	Septic Tank For plantation
16.	Disposal Arrangement of Waste water in Operation Phase	**Domestic Effluent** 2 KLD of sewage will be generated from the project which will be treated in existing STP of PSIEC. **Industrial Effluent** 515 KLD treated effluent will be provided to green area within PSIEC
17	Details of various APCD to be installed	The details of the same is as under:-

S.No	**Source**	**Capacity**	**Proposed Chimney Height (in m)**	**Proposed APCD**	**Fuel**
1.	DG Set	Proposed 1 DG set of 200 KVA capacity	3 m	Canopy	H.S.D.
2.	Boiler	5 Ton capacity	15 m	Wet Scrubber	H.S.D.

18.	Rain water recharging detail	One recharge pit is proposed.
19.	Solid waste generation and its disposal	Approx. 8 kg/day of domestic solid waste will be generated from the proposed project which will be disposed off as per Solid Waste Management Rules, 2016 and approx. 3000 kg/day of ETP sludge will be generated and will be handed over to Nimbua Greenfield (Punjab) Pvt. Ltd. for disposal.
20.	Hazardous Waste & E- Waste	CETP sludge - Approx. 3,000 kg/day. As per Hazardous and Other Wastes (Management and Transboundary Movement Rules, 2016 and its amendments. it will be

		disposed off to Nimbua Greenfield (Punjab) Pvt. Ltd. under Hazardous Waste Management Rules, 2016. Used oil from DG sets will be sold to registered recyclers and E-waste will be disposed off as per the E-waste (Management) Amendment Rules 2018.
21.	Energy Requirements & Saving	a) 150 KW from PSPCL. b) 1 x 200 KVA (silent DG set). <u>Energy Saving measures:</u> a) Ie2 and Ie3 motors will be used for pumping wastewater within the plant premises from one unit to another in the overall treatment scheme. Further, all lightings fixtures (Fluorescent and CFL) will be replaced by LEDs for attaining energy efficiency. IS-8789 (Bureau of energy standard) will be followed for ensuring technical performance of motors and pumps utilized in CETP. b) DG set of 200 KVA (to be installed) will be based on green standards of PPCB which is best in class for fuel efficiency, digital enabled, optimized consumption of lubricant oil, low emission, high efficiency engines, minimum harmonic interference in alternators etc.
22	Environment Management Plan along with Budgetary break up phase wise and responsibility to implement	Details will be submitted during time of final EIA submission.

Some other important facts are also presented as under:-

i) The land has been allotted by PSIEC to Punjab Pollution Control Board vide Letter no. PSIEC/ Estate/ 25691-92 dated 18/09/2019 on lease hold basis for a period of 20 years on annual lease rent of Rs. 100 for setting up CETP in public interest.

ii) The possession of the land has been obtained by Punjab Pollution Control Board (PPCB) as per "Possession Certificate" Ref. No. PSIEC/ SDE (M)/ 793 dated 03/10/2019 issued by PSIEC to PPCB.

iii) A tripartite agreement has been signed between Punjab Pollution Control Board (PPCB), Mohali Industrial Association (MIA) and M/s Bansal Envirotech Private Limited (BEPL) vide dated 20/12/2019 for establishment and execution of CETP project.

Environmental Consultant of the promoter company also requested that:

(i) The project is located within PSIEC Industrial Focal Point, Chanalon (Kurali), Distt. SAS Nagar (Mohali), Punjab which is a notified Industrial Estate prior to EIA notification, 2006. Hence, project should be exempted from public consultation.
(ii) They had already carried out the Monitoring – October, November & December, 2017 for the project "DLF Hyde park Estate" which is located at a distance of approx. 13.8 km from the project location. They may be allowed to use the data thus collected.

To a query of SEAC regarding various components proposed in the CETP, the project proponent replied that the CETP will consist of the components of Collection Sump (1 No), Screen Chamber (2 No), Oil & Grease Chamber (2 No) , Equalisation tank 1& 2 (02 No) Lime Preparation Tank (1 No) , Flash Mixer Tank (1 No) , Primary Tube Settler (1 No), Flocculation Tank (1 No.), Primary Tube Settler-2 (1 NO.), Polishing Tank (1 No.), Secondary Tube Settler (1 No.), Sludge Holding Tank (1 NO.), Filter Feed Tank (1 NO.), UF Feed Tank (1 No)

The request of the project proponent regarding exemption from the requirement of conducting public hearing may be considered as MoEF&CC vide Office Memorandum dated 10.12.2014 has clarified that the exemption from public consultation, as provided for under para 7 (i) III. Stage(3)(i)(b) of EIA notification, 2006 is available to the projects or activities or units located within the Industrial Estates or Parks, which were notified prior to 14.09.2006 i.e. the EIA notification, 2006 coming into force. However, the request of the project proponent regarding exemption from the requirement of conducting public hearing may be considered subject to the condition that the project proponent will submit the documentary proof to the effect that the establishment of Focal Point, wherein the proposed site is to be located, is prior to the issuance of EIA notification, 2006.

Another request of the project proponent regarding use of baseline data of the project "DLF Hyde park Estate" cannot be considered as distance of the project location is more than 10.0 km.

After detailed deliberations in the matter, it was decided to categorize this project as category **B-1** and

(i) As per OM No. J-11013/36/2014-IA-I dated 10.12.2014 of the MoEF&CC, the request of the project proponent regarding exemption from the requirement of conducting public hearing may be considered subject to the condition that the project proponent will submit the documentary proof to the effect that the establishment of Focal Point, wherein the proposed site is to be located, is prior to the issuance of EIA notification, 2006.
(ii) The following "Terms of Reference" to the project proponent for preparation of the detailed EIA report be issued:

7(h):STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR COMMON EFFLUENT TREATMENT PLANTS (CETPs) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

Standard Terms of Reference

1) Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental angle, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.
2) Details of the land use break-up for the proposed project. Details of land use around 10 km radius of the project site.
3) Details of member units, its production capacity, waste generation, characteristic and details of primary treatment provided by the member units.
4) Details on present treatment and disposal systems
5) Details of effluent collection system from member units level.
6) Details of hazardous waste collection. Sill proof arrangement
7) Examine and submit details of inlet characteristics.
8) Details of the CETP with design parameters. Layout plan of CETP. And open spaces.
9) Details of the adequate power back up facility, to meet the energy requirement in case of power failure from the grid.
10) Details of the usage of treated effluent for green belt development and horticulture.
11) Submit a copy of MoU made between the Member units.
12) Details of storage facility available at the CETP.
13) Examine and submit details of sludge / solid waste generated and method of disposal. MoU in this regard.
14) Details of water requirement, source and water balance chart.
15) Details of green belt.
16) Details of performance monitoring , lab facility with technical persons.
17) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

18) The cost of the Project, Capital cost and recurring cost towards implementation of EMP for the Construction Phase and Operation Phase of the project should be clearly spelt out.

19) Details of water meters for inflow and outflow monitoring etc.

20) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToRs available on Ministry website "http://moef.nic.in/Manual /CETPs".

Additional TORs

1) Executive summary of the project-giving a prima facle idea of the objectives of the proposal, use of resources, justifications, etc. In addition, it should provide a compilation of EIA report, EMP and the post project monitoring plan in brief.
2) Submit details of the EIA Consultant including NABET accreditation and an undertaking to the effect that EIA/EMP prepared by them.
3) Submit dully filled check list for environmental clearance project & synopsis of the project available on web site i.e www.pbdecc.gov.in.
4) The project proponent shall submit proper index with page numbering.
5) Submit proof of ownership of land (existing owner) such as copy of latest Jamabandi (not more than one month old) and credible document showing status of land acquisition w.r.t. project site as prescribed in OM dated 07.10.2014 issued by MoEF)
6) Submit Layout plan duly approved by the Competent Authority / Conceptual plan of the project
7) Submit 500 meter radius map of the area from periphery of project site clearly indicating the various industries (specifically red category industries) and structures lying in the area.
8) Submit dully filled prescribed field data sheets and analysis reports along with exact location of sampling / monitoring point marked on the layout map. Also submit the status of approvals of Laboratories.
9) Submit cost of the project duly certified by Chartered Engineer/ Approved valuer / Chartered Accountant. In the absence of above, the project proponent may submit self-certified detail of cost of the project mentioning the cost of Land, building, infrastructure and plant & machinery
10) Submit a a copy of acknowledgement alongwith set of application filed to CGWA /Competent Authority for obtaining permission for abstraction of ground water.

Land use

11) If any incompatible land-use attributes fall within a 5 km radius of the project boundary, proponent shall describe the sensitivity (Distance, area and significance) and propose the additional points based on significance of review and acceptance by the EAC/SEAC incompatible land use attributes include.
    - Public water supply areas from rivers/ surface water bodies, from groundwater
    - Scenic areas/ tourism area/ hill resorts

- Religious places, pilgrim center that attract over 10 lakh pilgrims a year.
- Protected tribal settlements (notified tribal areas where industrial activity is not permitted); CRZ
- Monuments of national significance, World Heritage Sites.
- Cyclone, Tsunami prone area (based on last 25 years);
- Any other feature as specified by the State or local government and other features as locally applicable, including prime agricultural lands, pastures, migratory corridors etc.

12) If ecologically sensitive attributes fall within a 5 km radius of the project boundary, proponent shall describe the sensitivity)distance, area and significance) and propose the additional points based on significance for review and acceptance by the EAC/SEAC, Ecological sensitive attributes include.
- National parks
- Wild life sanctuaries Game reserve/ turtle nesting ground
- Breeding grounds
- Core zone of biosphere reserve
- Habitat for migratory birds
- Areas with threatened (rare, vulnerable, endangered) flora/ fauna
- Protected corals
- Wetlands
- Zoological gardens
- Gene Banks
- Reserved forests
- Protected forests
- Any other closed/protected area under the Wild Life (Protection) Act. any other area locally applicable.

Water quality monitoring and preservation

13) Submit proposal regarding installation of 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.

Energy Conservation Measures

14) Submit the proposal for energy conservations measures.

Green Belt

15) Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant. Examine and submit the proposal.

16) Submit the percentage of the green area to be developed and maintenance plan for 3 years indicating cost to be incurred.

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

Collection of Effluent

18) Proposal regarding flexibility provisions to deal with quantitative and qualitative fluctuations.
19) Organizational setup for collection of pre- treated effluents, treatment and disposal of the treated effluents, etc. and deployment of qualified/ skilled man power.
20) Details of O&M for maximum utilization of the designed capacity of the plant.
21) Proposed monitoring protocol for stage-wise quality control w.r.t. various characteristics and maintenance schedules followed for all rotating equipment including lubrication/oil fill. Operational chemicals and laboratory chemicals.
22) For any sensitive environmental parameters such as heavy metals, fluorides, etc., details on improved material of construction of tanks and other equipments such as corrosion resistance, allowance, etc.
23) Protocol and mechanism to accept the effluent by tankers only during day time, including the adequacy of the receiving/holding tanks, etc.

Membership Industry.

24) Details regarding minimum (two day) storage tank with mixing facility at membership industry.
25) Details on equity by the member industry/non refundable membership fee to ensure continuity of membership and financial Model.

Disposal arrangement

26) Submit comprehensive proposal for disposal/reuse of treated waste water. Also submit the details of availability of the land for proposed treatment for ultimate capacity and to accommodate required greenbelt development.

Waste Management

27) Examine details of the management & handling of E- waste, hazardous waste, scrap, construction & demolition waste management

Environmental monitoring program:

28) The name of the laboratory recognized by the MoEF/ CPCB/ NBA, etc. through which the monitoring/ analysis shall be carried out.
29) Appropriate monitoring network has to be designed and proposed for regulatory compliance and to assess the residual impacts, if any.
30) The study area shall be up to a distance of 10 Kms from the boundary of the proposed site and all along the collection network/ route map of tanker movement, treated wastewater carrying pipe-line and the receiving environment at the point of disposal.
31) One Season Baseline data of the study area w.r.t. different components of environment viz. air, noise, water, land and biology and socio-economic collected as per the guidance given in the manual issued by MoEF&CC for such type of projects.
32) Ambient Air Quality (AAQ) data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered hall include but not limited to all the parameters as prescribed under NAAQ standards. The location of the monitoring stations should be decided in such was that the factors like pre-dominant downwind direction, population zone and sensitive receptors including

reserved forests, if any are considered. There should be at least on monitoring station in the upwind direction and in downwind direction at about 500 m.

33) Impact of the project of the AAQ of the area, details of the model used and the input data used for modeling should also be provided. The air quality contours may be plotted on location map showing the location of project site, habitation nearby, sensitive receptors, if any. The wind roses should also shown on this map
34) Assessment of receiving water bodies/ land and groundwater for all the relevant environmental parameters.
35) Noise monitoring on all the four sides of the projects site.
36) Monitoring of odour emissions from the project site.
37) Details of flora and fauna. In case of any scheduled fauna, conservation plan should be provided.
38) Environments parameters – Temperature, sea level pressure, wind speed, mean relative humidity, visibility, salinity, density, rainfall, fog, frequency and intensity of cyclones, sediment transport, seismic characteristics, fresh water influx.
39) Details regarding soil and groundwater impacts and regular monitoring protocols suggested for ensuring no significant impacts, besides preventive measures.

Additional studies:

27) Sustainability study for groundwater in the existing tubewells and quality of groundwater as per BIS:10500-2012 (drinking water standards) should be provided.
28) Details of water balance taking into account the reuse and re-circulation of effluents, if any, should be provided.
29) Details of rainwater harvesting outside the project premises including its pre-treatment method.
30) The project proponent should undertake risk assessment, covering plant operations and collection network and disposal network and tankers movement. Details of the proposed safeguard measures including measures for fire hazards.
31) A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
32) Measures of socio economic influence to the local community proposed to be provided by project proponent. As far as possible, quantitative dimensions to be given.
33) Submit emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan .
34) Impacts due to laying of pipe lines for effluent collection and for the disposal of the treated wastewaters.
35) Details of storm water collection network and utilization plan, etc.
36) Details regarding infrastructure facilities such as sanitation, fuel, restroom, etc., to be provided to the labour force during construction as well as to the casual workers including truck drivers etc. during the operational phase.
37) Drainage area and alterations, if any due to the project
38) Delineate the concrete proposal regarding activities to be undertaken under Corporate Environmental Responsibility indicating the followings :-
    i) various activities to be undertaken as per the provision of OM dated 01.05.2018

ii) proportionate provisions of funds,
iii) the period in which CER activities is to be implemented
iv) the person(s) responsible for the implementation.

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

Public Hearing

40) The project proponent shall get the public hearing conducted and issues raised by the public in the hearing and commitment of the project proponent on the same should be incorporated in the EIA study report. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided. However, the request of the project proponent regarding exemption from the requirement of conducting public hearing may only be considered subject to the condition that the project proponent will submit the documentary proof to the effect that the establishment of Focal Point, wherein the proposed site is to be located, is prior to the issuance of EIA notification, 2006.

The Terms of Reference (ToR) prescribed by the State Expert Appraisal Committee (SEAC), Punjab should be considered for the preparation of EIA / EMP report for the project in addition to all the relevant information as per the Generic Structure of EIA given in Appendix III and IIIA in the EIA Notification, 2006

The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The project proponent should prepare detailed EIA / EMP Report for its project based on above Terms of Reference and submit the same to the SEIAA for its appraisal.

Item No. 187.14: Application for issuance of Terms of References (ToRs)Environmental Clearance under EIA notification dated 14.09.2006 for the expansion of Educational Institute namely "Thapar Institute of Engineering and Technology (Deemed to be University)" located at Bhadson Road, Patiala, Punjab. (Proposal No. SIA/PB/ NCP/50811 /2020).

SEAC observed as under:

1.0 Back ground

Earlier, the university was granted Environmental Clearance for expansion of the project by SEIAA, Punjab vide Letter No. SEIAA/914 dated 25.01.16 in an total plot area remains same i.e. 10,08,194.06 sqm (249.13 acres) and having built up area up to 3,33,080.53 sqm with certain conditions.

The project proponent submitted application for issuance of Terms of References (ToRs) for obtaining Environmental Clearance under EIA notification, 2006 for Expansion of Educational Institute namely Thapar Institute of Engineering and Technology (Deemed to be University) at Bhadson Road, Patiala, Punjab for the same plot area i.e. 10,08,194.06 sq.m. (or 249.13 acres) and increased built up area upto 4,45,678.09 sqm.

2.0 Delibration during 187th meeting held on 26.02.2020

The case was considered by SEAC in its 187th meeting held on 26.02.2020 and was attended by the following on behalf of the project proponent:

i) Sh. Gurbinder Singh, Registrar, M/s Thapar Institute of Engineering & Technology.
ii) Ms. Priyanka Madan, M/s ECO Laboratories & Consultants Pvt. Ltd.

SEAC was apprised that in response email dated 19.02.2020, an internal communication of PPCB between the Environmental Engineer, Regional Office Patiala and the Senior Environmental Engineer, Punjab Pollution Control Board, Zonal office-1, Patiala made vide letter no. 6978 dated 20.02.2020 was received. The said communication related to the latest construction status of the project wherein it was reported that the institute was visited by the AEE of his office on 20.02.2020 and contacted Sh. Anil Singla, Engineer of Institute. The details of the said report is as under:

Sr. No.	Points raised by SEIAA	Reply
1.	Construction status for its expansion project at the site.	The construction work yet to started at site.
2.	Physical structures within 500 m radius of the site including the status of industries, if any.	There is no industry located within the radius of 500 mof the site.
3.	As to whether site of the project is confirming to the siting guidelines laid down by the Govt. of Punjab, Department of Science & Technology and Environment.	There is no. MAH unit, rice sheller, brick kiln, hot mix plant stone crushing unit within 500 m from the proposed site.
4.	Status of Consents issued to existing unit under Air Act, 1981 and Water Act, 1974.	The institute was granted varied consent to operate under the Water Act, 1974 vide no. CTOW/Varied/PTA/2019/9438496 dated 18.09.2019 having validity upto 31.03.2020 and under the Air Act, 1981 vide no. CTOA/Varied/PTA/20199438220 dated 18.09.2019 having validity upto 31.03.2020.
5.	As to whether the existing unit is complying with condition of consent to operate under Air Act, 1981 and Water	Complying

	Act, 1974 granted to it.	

SEAC observed that no construction work has been started by the project proponent for its expansion project. However, it has been directed to get the report from the Zonal office-II, Patiala before sending the recommendation to SEIAA.

The said report was received from the Zonal Office-02, Patiala with no change on 16.03.2020

SEAC allowed the Project proponent to present the salient features of the project and the Environmental Consultant of the same presented as under:

<table>
<tr><th>S.No.</th><th>Item</th><th>Details</th></tr>
<tr><td>1.</td><td>Online Proposal No.</td><td>SIA/PB/NCP/50811/2020</td></tr>
<tr><td>2.</td><td>Name and Location of the project</td><td>Expansion of Educational Institute namely “Thapar Institute of Engineering and Technology (Deemed to be University)” located at Bhadson Road, Patiala, Punjab.</td></tr>
<tr><td>3.</td><td>Latitude & Longitude</td><td>Corners coordinates:
<table>
<tr><th>Corner</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td>Corner-1</td><td>30°21'24.78"N</td><td>76°21'31.05"E</td></tr>
<tr><td>Corner-2</td><td>30°21'30.90"N</td><td>76°22'23.24"E</td></tr>
<tr><td>Corner-3</td><td>30°21'07.42"N</td><td>76°22'25.30"E</td></tr>
<tr><td>Corner-4</td><td>30°21'00.58"N</td><td>76°21'34.14"E</td></tr>
</table></td></tr>
<tr><td>4.</td><td>Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006</td><td>The project falls under S.No. 8(b) – ‘Township and Area Development’.</td></tr>
<tr><td>5.</td><td>Whether the project is in critical polluted area or not.</td><td>The Institute is located in Patiala, Punjab which does not fall under any critically polluted area notified by MoEF&CC.</td></tr>
<tr><td>6.</td><td>Does the project involve diversion of forest land.</td><td>No.</td></tr>
<tr><td>7.</td><td>Does the project covered under PLPA, 1900,</td><td>No</td></tr>
<tr><td>8.</td><td>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.</td><td>The project is situated at a distance of approx. 5.5 km from the BirMotiBagh Wildlife Sanctuary. However, the Eco-sensitive Zone is an area of 100 meters all around the boundary of the Bir Moti Bagh Wildlife Sanctuary comprising an area of 111.10 hectares approximately.

As project is located outside the eco-sensitive zone of the BirMotiBagh Wildlife Sanctuary; thus, there is no need of obtaining NBWL clearance.</td></tr>
</table>

<table>
<tr><td></td><td>b. Status of clearance from National Board for Wild Life (NBWL).</td><td></td></tr>
<tr><td>9.</td><td>Classification/Land use pattern as per Master Plan</td><td>Educational/Institutional Zone as per Master plan of Patiala.</td></tr>
<tr><td>10.</td><td>Cost of the project</td><td>
<table>
<tr><td>Details</td><td>EC accorded</td><td>Additional</td><td>After Expansion</td></tr>
<tr><td>Project cost</td><td>Rs. 587.40 Cr.</td><td>Rs. 510 Cr.</td><td>Rs. 1,097.4 Crores</td></tr>
</table>
</td></tr>
<tr><td>11</td><td>Detail of TORs fee</td><td>Rs. 28150/- have been deposited vide NEFT: SBINI20038042071 Dated 07.02.2020.</td></tr>
<tr><td>11.</td><td>Total Plot area, Built- up Area and Green area</td><td>The details of project is as under:
<table>
<tr><td>Details</td><td>EC accorded</td><td>Additional</td><td>After Expansion</td></tr>
<tr><td>Plot Area</td><td colspan="3">10,08,194.06 sq.m. (or 249.13 acres)</td></tr>
<tr><td>Built-up area</td><td>3,33,080.53 sqm.</td><td>1,12,597.56 sqm</td><td>4,45,678.09 sqm</td></tr>
<tr><td>Green area</td><td>2,34,542 sqm.</td><td>2,343 sqm.</td><td>2,36,885 sqm</td></tr>
</table>
</td></tr>
<tr><td>12.</td><td>Population (when fully operational)</td><td>
<table>
<tr><td>Details</td><td>EC accorded</td><td>Additional</td><td>After Expansion</td></tr>
<tr><td>Population</td><td>15,724 Persons</td><td>1,600 Persons</td><td>16,224 Persons</td></tr>
</table>
</td></tr>
<tr><td>13.</td><td>Water Requirements &source in Construction Phase</td><td>During construction phase, water demand of 20 KLD may be there depending upon phases of construction. The water requirement will be provided by treated water from already installed STP within the project premises. Drinking water requirement for labourers (4.5 KLD) will be provided by existing borewells.</td></tr>
<tr><td>14.</td><td colspan="2">Breakup of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):
<table>
<tr><td rowspan="2">S. No.</td><td rowspan="2">Season</td><td colspan="2">Fresh water</td><td colspan="3">Reuse water</td><td rowspan="2">Total (KLD)</td></tr>
<tr><td>Domestic (KLD)</td><td>Others (KLD)</td><td>Flushing (KLD)</td><td>Green area (KLD)</td><td>HVAC (KLD)</td></tr>
<tr><td>1.</td><td>Summer</td><td>1,541</td><td>0</td><td>404</td><td>1,303</td><td>-</td><td>3,248</td></tr>
</table>
</td></tr>
</table>

2.	Winter	1,541	0	404	426	-	2,371
3.	Rainy	1,541	0	404	118	-	2,063

S.No.	Description	Source of water
1.	Domestic	Borewells
2.	Others	-
3.	Flushing purposes	Treated wastewater
4.	Green area	Treated wastewater
5.	HVAC	-

15.	Treatment & Disposal arrangements of waste water in Construction Phase	Wastewater generated will be treated in already installed STP of 2.3 MLD within the project premises.
16.	Disposal Arrangement of Waste water in Operation Phase	Total wastewater generation will be 1,556 KLD which will be treated in already installed STP of 2.3 MLD capacity within the project premises. Treated water will be utilized for flushing, green area and remaining will be discharged to 10 acres of land reserved for Karnal technology.

Season	Flushing (KLD)	Green area (KLD)	Sewer (KLD)
Summer	404	1,303	-
Winter	404	426	-
Monsoon	404	118	-

17.	Rain water recharging detail	Ground water recharging is being done by provision of Recharge Pits (20 nos. out of this 15 pits have been constructed so as to compensate the abstraction of ground water. Additional 11 no. of Rain water recharging pits with dual bore will be provided for proposed buildings for artificial rain water recharge within the project premises.

Details	EC accorded	Additional	After Expansion
Rain water recharging pits	20 nos. (Out of which, 15 pits have been constructed)	11 Pits with dual bore	31 Pits

18.	Solid waste generation and its disposal	

Details	EC accorded	Additional	After Expansion
Solid waste	4,900 kg/day	468 kg/day	5,368 kg/day

a) 5,368 kg/day

<table>
<tr><td></td><td></td><td>b) The solid waste is being duly segregated into biodegradable and non-biodegradable components.
c) Bio-degradable waste of 2416 kg/day is being converted into Manure using Mechanical Composter having 7 Ton/day capacity
d) Non-biodegradable or dry waste of 2845 kg/day is being Handed over to authorized waste pickers
e) 107 kg/day Domestic hazardous waste is being Disposed off to authorized vendors as per Solid Waste Management Rules, 2016.</td></tr>
<tr><td>19.</td><td>Hazardous Waste & E- Waste</td><td>Used oil from DG sets is being disposed off as per the Hazardous Waste Management Rules, 2016andE-waste will be disposed off as per the E-waste (Management) Amendment Rules 2018.</td></tr>
<tr><td>20.</td><td>Energy Requirements & Saving</td><td>
<table>
<tr><th>Details</th><th>EC accorded</th><th>Additional</th><th>After Expansion</th></tr>
<tr><td>Power load</td><td>8800 KW (Out of which existing load is 4600 KW)</td><td>-200 KW</td><td>8600 KW</td></tr>
<tr><td>DG sets</td><td>17 DG sets.
Out of which, 14 DG sets have been installed (i.e. 5 of 750 capacity, 1 of 500 KVA, 3 of 400 KVA, 2 of 380 KVA, 1 of 320 KVA, 2 of 325 KVA)</td><td>4 DG sets of 750 KVA each</td><td>18 DG sets (i.e. 9 of 750 capacity, 1 of 500 KVA, 3 of 400 KVA, 2 of 380 KVA, 1 of 320 KVA and 2 of 325 KVA capacity)</td></tr>
</table>
<u>Energy Saving measures:</u>
Solar power plant of capacity 3.0 Mega Watt has been proposed within the project for electricity generation.
Project targets to achieve reduction in energy consumption for approx. 20-25% by incorporating various energy efficiency measures in the areas of building envelope, air-conditioning systems, lighting systems and controls as listed below:
• Efficient external walls</td></tr>
</table>

		• Insulated roof • Double glazed units • High COP chillers • High efficiency motors • Use of LED lighting and occupancy sensors. • Use of low flow fixtures

SEAC raised following queries to the project proponent and the project proponent replied as under:

Sr. No.	**Observations**	**Reply submitted by the project proponent and his Environmental Consultant**
1.	What is the land use pattern as per the master plan of the area.	As per master plan of Patiala the project falls in Educational/ Institutional zone.
2.	Whether any proposal has been made regarding Environmental Management Plan and CER?	The same will be submitted at the time of application for obtaining Environmental Clearance.

SEAC took a copy of presentation given by the project proponent and his environmental consultant on record.

3.0 Recommendations

After detailed deliberations SEAC decided to recommend to SEIAA as under:

1. To issue Terms of References (ToRs) for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the expansion of Educational Institute "Thapar Institute of Engineering and Technology (Deemed to be University)" located at Bhadson Road, Patiala, Punjab as per **Annexure-II**
2. Northern Regional office, MoEF Chandigarh be requested to send compliance report of the conditions of Environmental Clearance granted to the project proponent earlier in compliance to the OM dated 07.09.2017.

Meeting ended with vote of tanks to the Chair

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Annexure-I

Standard EC Conditions for Project/Activity 8(a/b) : Building and construction projects /Townships and Area Development projects as approved for similar projects by SEIAA

I. Statutory compliance:

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

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

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

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 Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board / Committee.

vi) The project proponent shall obtain the necessary permission for drawl of ground water/ 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 Chief Controller of Explosives, Fire Department, 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 confirm to the suitability as prescribed under the provisions laid down under the master plan of respective city/ town. For

that, the project proponent shall either to submit the NOC/ land use conformity certificate from Deptt of Town and Country Planning or other concerned Authority under whom jurisdiction, the site falls.

xii) Besides 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 type of projects.

xiii) The project proponent shall get the layout plans approved from the Competent Authority for the activities / establishments to be set up at project site in consonance of the project proposal for which this environment clearance is applied.

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 ambient air quality at the site.

iii) The project proponent shall install system to carryout 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 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. The location of the DG sets may be decided with in consultation with State Pollution Control Board.

v) Construction site shall be adequately barricaded before the construction begins. Dust, smoke & 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, continuous dust/ wind breaking walls all around the site (at least 3m height or 1/3rd of the building height and maximum upto 10m). 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 & 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 area shall be prohibited. 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 earmarked area and road side 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 construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.

xiv) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the 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 National Building Code of India.

xvi) Roads leading to or at construction site must be paved and blacktopped (i.e. metallic road)

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 measure be notified at the site.

III. Water quality monitoring and preservation

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

ii) No construction shall be allowed to obstruct the natural drainage through the site, on 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 rain water.

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

iv) The total water requirement for the project will be _____ KLD, out of which _____ KLD shall be met through own tube well and remaining through recycling of

treated waste water. Total fresh water use shall not exceed the proposed requirement as provided in the project details.

v) a)The total wastewater generation from the project will be _____ KLD, which will be treated in STP of capacity of _____ KLD based on _____ technology within the project premises. As proposed, reuse of treated wastewater and discharge of surplus treated wastewater shall be as under:-

Sr. No.	Season	For Flushing purposes (KLD)	Green Area (KLD)	Plantation area (_____ acres) in addition to the green area adjoining to the project or Sewer* (KLD)
1.	Summer			
2.	Winter			
3.	Rainy			

* Note : Surplus treated wastewater will be discharged into MC sewer as and when sewer connection is available with the project.

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

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

vii) The quantity of fresh water 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 along with six monthly Monitoring reports.

viii) 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 water available. This should be specified separately

for ground water and surface water sources, ensuring that there is no impact on other users.

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

x) Installation of dual pipe plumbing 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, conditioning etc. shall be done.

xi) The respective project proponent shall discourage the installation of R.O. plants in their projects in order to save the wastage in form of RO reject. However, in case the requirement of installing RO plant is utmost necessary then the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component i.e. (Tower/Mall) or in a common place in the project premises.

xii) The project proponent shall also adopt the new/innovating technologies like less water discharging taps (faucet with aerators)/urinals with electronic sensor system /water less urinals / twin flush cisterns/ sensor based alarming system for overhead water storage tanks and make it a part of the environmental management plans / building plans so as to reduce the water consumption/ground water abstraction in their Building Construction & Industrial projects.

xiii) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/ HVAC/ other purposes etc. and colour coding of different pipe lines 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 & 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 & 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 grey water	Green with strips
g)	Storm water	Orange

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

xv) A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. Thus, _____ nos of rain water harvesting recharge pits shall be provided for ground water recharging as per CGWA norms. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.

xvi) All recharge should be limited to shallow aquifer.

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

xviii) Any ground water 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 ground water abstraction or dewatering.

xix) The quantity of fresh water 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 along with six monthly Monitoring reports.

xx) Sewage shall be treated in the STP with tertiary treatment. STP shall be installed in phased manner viz a viz in module system designed in a such a way so as to efficiently treat the waste water with increase in its quantity due to rise in occupancy. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. No treated water shall be disposed in to municipal stormwater drain.

xxi) No sewage or untreated effluent water would be discharged through storm water drains. Onsite sewage treatment of capacity of treating 100% waste water to 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 before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.

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

xxiii) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed 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 residential area/commercial area/industrial area/silence zone 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 construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.

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

iii) Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs 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. day lighting 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 installation of LEDs for the lighting the area outside the building should be 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) Solar power by utilizing at least 30% of the roof top area shall be used for lighting in the apartment to reduce the power load on grid. 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. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

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

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

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

iv) Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed for treatment and disposal of the 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 construction phase, shall be disposed off as per applicable rules and norms with 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 environment friendly materials.

viii) Fly ash should be used as 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 off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

i) No tree can be felled/transplant 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. Plantations to be ensured species (cut) to species (planted).

ii) At least 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. A minimum of one tree for every 80 sqm of total project land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. 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 provided as per SEIAA guidelines.

iii) Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1: 10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.

iv) 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 plantation of the proposed vegetation on site.

v) 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.

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

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 regulation.

ii) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards 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 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in 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 mask.

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

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

iv) Occupational health surveillance of the workers shall be done on a regular basis.

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

X. Corporate Environment Responsibility

i) The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER

activities for spending at least minimum amount of Rs. _____/- towards following CER activities: -

Sr No.	Proposed CER Activity	Amount (INR)	Start date	End date

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

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

iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall spend minimum amount of Rs _____Lacs towards capital cost and Rs _____ Lacs/annum towards recurring cost in Construction phase of the project including the environmental monitoring cost and shall spend minimum amount of Rs _____Lacs towards capital cost and Rs _____ Lacs/annum towards recurring cost in operation phase of the project including the environmental monitoring cost. The entire cost of the environmental management plan will continue to be borne by the project proponent until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

XI. Validity

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

XII. Miscellaneous

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

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

iii) The project proponent shall prominently advertise it at least in 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 MoEFCC/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 has to 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 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 Environment Clearance portal.

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 on the website of the company.

viii) The project proponent shall inform the Regional Office as well as the Ministry, 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, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.

xi) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

xii) 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.

xiii) The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

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

xv) The Regional Office of this Ministry and Punjab Pollution Control Baord shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.

xvi) 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.

xvii) Any appeal against this EC 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.

Annexure-II

Standard Terms of Reference

1) Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.

2) Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/villages and present status of such activities.

3) Examine baseline environmental quality along with projected incremental load due to the project.

4) Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.

5) Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project

6) Submit the details of the trees to be felled for the project.

7) Submit the present land use and permission required for any conversion such as forest, agriculture etc.

8) Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.

9) Ground water classification as per the Central Ground Water Authority.

10) Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.

11) Rain water harvesting proposals should be made with due safeguards for ground water quality.Maximize recycling of water and utilization of rain water. Examine details.

12) Examine soil characteristics and depth of ground water table for rainwater harvesting.

13) Examine details of solid waste generation treatment and its disposal.

14) Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.

15) DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.

16) Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the

region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.

17) A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.

18) Examine the details of transport of materials for construction which should include source and availability.

19) Examine separately the details of construction and operation phases both for Environmental Management Plan & Environmental Monitoring Plan with cost and parameters.

20) Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.

21) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

22) The cost of the Project, Capital cost and recurring cost towards implementation of EMP for the Construction Phase and Operation Phase of the project should be clearly spelt out.

23) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "http://moef.nic.in/ Manual/Townships".

Additional TORs

1) Submit details of the EIA Consultant including NABET accreditation and an undertaking to the effect that EIA/EMP prepared by them.

2) Submit dully filled check list for environmental clearance project & synopsis of the project available on web site i.e www.pbdecc.gov.in.

3) The project proponent shall submit proper index with page numbering.

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

5) Submit Layout plan duly approved by the Competent Authority / Conceptual plan of the project

6) Submit 500 meter radius map of the area from periphery of project site clearly indicating the various industries (specifically red category industries) and structures lying in the area.

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

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

9) Submit a a copy of acknowledgement alongwith set of application filed to CGWA /Competent Authority for obtaining permission for abstraction of ground water.

10) Submit a letter from concerned Local Body / Authority giving details as under:

   i) Availability of the water supply in the area, exact position of water supply line duly marked on the layout map / plan and providing the water supply to the proposed project.

   ii) Availability of the existing sewer duly marked on layout map and status of sewer connectivity indicating feasibility with respect to the project sewer & acceptance of quantity of sewage.

   iii) Acceptance of Solid Waste indicating quantity to be generated by the proposed project.

11) Submit Location plan showing the exact location of the project site w.r.t. some permanent / important features of the area and site plan of the project showing the following:

   i) Location of STP
   ii) Solid waste storage area
   iii) Green belt with marking of tree
   iv) Parking space
   v) RWH and water recharge pits
   vi) Fire fighting equipment layout
   vii) First aid room
   viii) Location of Tubewells
   ix) DG Sets and Transformers
   x) Any other utilities

12) Examine and submit the details of the environmental impacts at the stage of land acquisition including aspects such as displacement of families, rehabilitation, acquiring of agricultural/forest land, acquiring of ecologically important lands and water bodies.

13) Examine and submit the details of the environmental aspects, impacts and their mitigation measures at the stage of construction and operation phase of the projects as indicated in Appendix III of EIA Notification 2006 and the manual titled as "EIA guidance Manual-Building, Construction, Township and area Development projects" published by the Ministry of Environment & Forests, New Delhi.

14) Submit the details of the socio-economic impact due to the employment to be generated from the household activities.

15) Management plan to utilise the entire earth generated within the site may be worked out and submitted.

16) Submit the status of ground water table. Also examine the impacts of abstraction of ground water on the ground water table.

17) Design of rain water harvesting/storage as per CGWA norms be worked out and submitted.

18) Submit plan for installation of own STP based on SBR Technology on module basis of adequate capacity within project site for the treatment the waste water generated from the project and utilising maximum treated sewage water to reduce the demand on the fresh water

19) Submit layout plan dully marked with at least single line plantation all around the boundary of the project and number of trees considering a minimum of one tree for every 80 sqm of total project land. The existing trees will be counted separately for this purpose.

20) Submit the percentage of the green area to be developed and maintenance plan for 3 years indicating cost to be incurred.

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

22) Submit scheme to handle the organic waste generated from the project

23) Examine details of the management & handling of E- waste, hazardous waste, scrap, construction and demolition waste management.

24) Submit plumbing system for reuse of treated wastewater for flushing/ HVAC/ other purposes etc. and colour coding of different pipe lines carrying water/wastewater from different sources / treated wastewater shall be provided as follows:

Sr. No	**Nature of the Stream**	**Color code**
a)	Fresh water	Blue Color
b)	Untreated wastewater from Toilets/ urinal & from Kitchen	Black color
c)	Untreated wastewater from Bathing/shower area, hand washing (Washbasin / sinks) and from Cloth Washing	Grey color
d)	Reject water streams from RO plants & 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	White color

	houses/establishment this proposal may also be implemented wherever possible.	
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 grey water	Green with strips
g)	Storm water	Orange Color

25) Delineate the concrete proposal regarding activities to be undertaken under Corporate Environmental Responsibility indicating the followings :-

v) various activities to be undertaken as per the provision of OM dated 01.05.2018
vi) proportionate provisions of funds,
vii) the period in which CER activities is to be implemented
viii) the person(s) responsible for the implementation.

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

27) For expansion project:-

i) Submit detail of every component (water details, waste water details, solid waste, energy requirement etc.) in the format of existing, proposed and after expansion.

ii) Submit the super imposed plan on appropriate readable size (the existing building plan superimpose with proposed building plan in different colors).

iii) Specify the adequacy of internal water supply system, sewer line and STP for the proposed expansion/revision

iv) Submit Structural Safety/ Stability Certificate may be required from the Approved Engineer (In case of increase in no. of story's.)

The Terms of Reference (ToR) prescribed by the State Expert Appraisal Committee (SEAC), Punjab should be considered for the preparation of EIA / EMP report for the project in addition to all the relevant information as per the Generic Structure of EIA given in Appendix III and IIIA in the EIA Notification, 2006

The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The project proponent should prepare detailed EIA / EMP Report for its project based on above Terms of Reference and submit the same to the SEIAA for its appraisal.

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