Proceeding of 200th meeting of State Expert Appraisal Committee (SEAC) to be held on 07.05.2021 in the Conference Hall no. 2 at 11:00 AM, MGSIPA Complex, Sector-26, Chandigarh.

The following were present:

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

Item No. 01: Confirmation of the proceedings of 199th meeting of State Level Expert Appraisal Committee held on 23.04.2021.

SEAC was apprised that the proceedings of 199th meeting of State Level Expert Appraisal Committee held on 23.04.2021, respectively have been prepared and were circulated through email on 04.05.2021. No comments have been received. Accordingly the proceedings were confirmed.

Item No. 02: Action taken on the proceedings of the 199th meeting of State Level Expert Appraisal Committee held on 23.04.2021.

SEAC was apprised that the action taken on the decisions of 199th meeting of State Level Expert Appraisal Committee held on 23.04.2021 had been completed. SEAC noted the same.

Item no.200.01: Application for Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of residential project namely "Galaxy Heights II" located at Sector-66A, Mohali, Distt. SAS Nagar, Punjab by M/s JLPL (SIA/PB/MIS/206248/2021).

The project proponent has filed an application for obtaining Environment Clearance under EIA notification, 2006 for establishment of residential project namely "Galaxy Heights II" located at **sector 66A, Mohali, SAS Nagar (Punjab)** with proposed built up area as 48,336.64 Sqm in plot area of 3.59 acres (14.528.19 Sqm). Project is covered under Activity 8(a) & Category 'B2' as per EIA notification-2006. The project is a part of Super Mega Mixed Use Integrated Industrial Park at Sector 82, 83 & 66A, SAS Nagar Mohali developed by M/s JLPL for which the EC was granted vide no. 8257 dated 16.12.2015.

The project proponent submitted the Form I, 1A and other additional documents. They have also deposited the processing fee amounting to Rs. 96,675/- has been paid vide DD no. 357964 dated 30.03.2021. PPCB was requested to send the latest construction status report of the project through e-mail on 26.03.2021.

1.0 Deliberations during 198th meeting of SEAC held on 05.04.2021

The matter was considered by SEAC in its 198th meeting held on 05.04.2021 and it was attended by Ms. Priyanka Madan, EIA Coordinator, M/s Eco Laboratories & Consultants Pvt. Ltd.

SEAC was apprised that the status report from Punjab Pollution Control Board was received through e-mail on 05.04.2021. The report was sent by Punjab Pollution Control Board vide letter no. 1775 dated 05.04.2021. The Committee Members observed that since the report of PPCB was received on the day of the meeting and they would like to go through the contents of the report before considering the said case and requested to defer the case for the next meeting.

After detailed deliberations, SEAC decided to defer the case till the next meeting.

2.0 Deliberations during 199th meeting of SEAC held on 23.04.2021

The meeting was attended by the following:

1. Sh. Hardeep Singh, Dy. Chief Engineer, on behalf of Project Proponent.
2. Sh. Sandeep Garg, EIA Coordinator, M/s Eco Laboratories Pvt Ltd.

SEAC observed that as per the report sent by the Punjab Pollution Control Board vide letter no. 1775 dated 05.04.2021 the Project Proponent did not start any construction activity at the site. The site was confirming to the siting guidelines laid down by the Govt. Punjab, Department of Science Technology and Environment vide order dated 25.07.2008 as amended on 30.10.2009.

SEAC allowed the Environmental Consultant of the Project Proponent to present salient features of the project which he presented as under:

Sr. no.	Description	Details
1.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	The project falls under Schedule 8(a) - 'Building & Construction Project' Category B.
2.	Proof of ownership of land mentioning Khasra no. & ownership details (Latest Jamabandi or Registry)	Project is a part of Super Mega Mixed Use Integrated Industrial Park at Sector 82, 83 & 66A, SAS Nagar
3.	Details as per CLU certificate like Khasra no., Project area (Existing & after expansion)	
4.	Whether the proposal involves approval/ clearance under the Forest (Conservation) Act, 1980	

5.	Does the project cover under PLPA, 1900	
6.	If the project falls within 10 km of eco-sensitive area/ National park/ Wild Life Sanctuary. If yes, a. Name of eco-sensitive area/ National park/ Wild Life Sanctuary and distance from the project site. b. Status of clearance from the National Board for Wild Life (NBWL).	
7.	Classification/ Land use pattern as per Master Plan	Copy of Master plan of SAS Nagar showing the project site was attached along with application.
8.	Cost of the project	The estimated project cost for proposed development is Rs. 90 Crores.
9.	Processing Fee details (Amount/ NEFT no./ dated)	Built-up area of Galaxy Heights = 48336.64 sq.m. Thus, Fees to be paid= Rs. 96,675/-
10.	Plot Area & Built-up Area	Plot Area = 14,528.19 sq.m. Built-up Area = 48,336.64 sq.m.

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

S.No	Season	Freshwater		Reuse water				Total (KLD)
		Domestic (KLD)	Others (KLD)	Flushing (KLD)	Green area (KLD)	HVAC (KLD)	Sewer (KLD)	
1.	Summer	95	-	32	21	-	47	195
2.	Winter	95	-	32	7	-	61	195
3.	Rainy	95	-	32	2	-	76	205

<table>
<tr><td></td><td colspan="2"><table>
<tr><th>S. No.</th><th>Description</th><th>Source of water</th></tr>
<tr><td>1.</td><td>Domestic</td><td>Bore Wells</td></tr>
<tr><td>2.</td><td>Flushing purposes</td><td>Treated water</td></tr>
<tr><td>3.</td><td>Green area</td><td>Treated water</td></tr>
</table></td></tr>
<tr><td>12.</td><td>Details of acknowledgement of application filed to CGWA/ Competent Authority for obtaining permission for abstraction of ground water.</td><td>The project is part of the Super Mega Mixed Use Integrated Industrial Park Project being developed by M/s Janta Land Promoters Pvt. Ltd. Thus, the common borewells will be used to withdrawal the ground water. Application has been filed to CGWA for Super Mega Mixed Use Integrated Industrial Park Project.</td></tr>
<tr><td>13.</td><td>Specify block of project site as per CGWA norms (Notified /Non Notified)</td><td>The project is part of the Super Mega Mixed Use Integrated Industrial Park Project being developed by M/s Janta Land Promoters Pvt. Ltd.</td></tr>
<tr><td>14.</td><td>Details of Wastewater generation, Treatment facility & its Disposal arrangements in Construction Phase</td><td>During construction phase, water demand will be 6 KLD which will be fulfilled by treated water from STP of GMADA located within Sector-83, Mohali.
Fresh water demand of 16 KLD for construction laborers will be fulfilled by existing borewells of Super Mega Mixed Use Integrated Industrial Park Project.</td></tr>
<tr><td>15.</td><td>Details of Wastewater generation, Treatment facility & its Disposal arrangements in Operation Phase and if wastewater being disposed in MC sewer then also mention the details of NOC from competent authority</td><td>During Operation Phase, the wastewater generation will be 112 KLD which will be treated in GMADA STP of 45 MLD capacity.
The details of the breakup of the utilization of treated wastewater is as under:
<table><tr><th>Season</th><th>Flushing (KLD)</th><th>Green area (KLD)</th><th>HVAC (KLD)</th><th>GMADA Sewer (KLD</th></tr><tr><td>Summer</td><td>32</td><td>21</td><td>-</td><td>47</td></tr><tr><td>Winter</td><td>32</td><td>7</td><td>-</td><td>61</td></tr><tr><td>Monsoon</td><td>32</td><td>2</td><td>-</td><td>76</td></tr></table>NOC has been obtained from GMADA for disposal of excess treated water.</td></tr>
</table>

<table>
<tr><td>16.</td><td>Details of Rainwater recharging/ harvesting (m^3/hr.) proposal & technology proposed to be adopted</td><td colspan="4">Total 6 no. of Rain water recharging pits has been proposed for rain water recharging within the project premises.</td></tr>
<tr><td>17.</td><td>Details of Solid waste generation (Qty), treatment facility and its disposal arrangement</td><td colspan="4">During Operation Phase, about 598 kg/day (@ 0.40 kg/capita/day for residential and @ 0.2 kg/capita/day for floating) of solid waste will be generated. The solid waste will be disposed off as per Solid Waste Management Rules. Biodegradable waste will be converted into manure by use of common composter of 300 kg. While, non-biodegradable waste & hazardous waste will be disposed off to authorized vendors.</td></tr>
<tr><td>18.</td><td>Detail of DG sets</td><td colspan="4">2 DG sets of capacity 1,000 kVA each (2 no. working and 1 no. for standby use) have been proposed.</td></tr>
<tr><td>19.</td><td>Air pollution control device details</td><td colspan="4">DG set will provided with acoustic enclosure and run on HSD fuel.</td></tr>
<tr><td>20.</td><td>Energy Requirements & Saving</td><td colspan="4">Total power demand for the proposed project will be 1,200 KW (design load) which will be provided by Punjab State Power Corporation Limited.
Energy Saving measures:
Solar panels have been proposed on the roof top of the proposed blocks. The total area covered by solar panels is 771.921 m^2 (which is 30% of proposed terrace area i.e. 2573.07 m^2) which will generate 64 KW of power generation.</td></tr>
<tr><td rowspan="3">21.</td><td rowspan="3">Details of Environmental Management Plan</td><td>S.N</td><td>Environmental Protection Measures</td><td>Capital Cost Rs. Lakh</td><td>Recurring Cost Rs. Lakh</td></tr>
<tr><td>1.</td><td>Construction</td><td>106</td><td>12</td></tr>
<tr><td>2.</td><td>Operation</td><td>-</td><td>15.1</td></tr>
</table>

22.	Details of green belt development shall include following: a) No. of tree to be planted against the requisite norms. b) Percentage of the area to be developed.	No. of trees required = 1 Tree per 80 sq.m. of plot area = 14,528.19 / 80 = 182 trees No. of trees proposed = 185 trees Green Area required = 3,632.049 sq.m. (@ 25% of plot area) Green Area proposed = 3,753.11 sq.m. (@ 25.83% of total plot area)

SEAC raised following observations to the Project Proponent.

Sr. no.	**Observation raised by SEAC**	**Reply of the Project Proponent**
1.	The Project Proponent has proposed to discharge the wastewater in the GMADA sewer without treatment and proposed to get it treated in the 45 MLD STP of GMADA installed in Sector 83, Mohali. However, in the other projects coming up in the Super Mega Project, the Project Proponent had proposed to install separate STP at the time of obtaining Environmental Clearance of each individual project. What is the reason the Project Proponent has not proposed individual STP in this project.	The Project Proponent sought time to reply in this regard.
2.	The Project Proponent has proposed to utilize fresh water from the borewells provided in the Super Mega Project. The Project Proponent is required to submit documentary evidence in support of the claim that the Galaxy Height II was part of the ground water demand proposal of the Super Mega Project.	The Project Proponent sought time to reply in this regard.

SEAC accepted the request of the Project Proponent and decided to defer the case till next meeting subject to submission of reply by it.

3.0 Deliberations during 200th meeting of SEAC held on 07.05.2021

The meeting was attended by the following:

1. Sh. Hardeep Singh, Dy. Chief Engineer, on behalf of Project Proponent.
2. Sh. Sandeep Garg, EIA Coordinator, M/s Eco Laboratories Pvt Ltd.

SEAC asked the Project Proponent to submit reply to the observations raised by it in the previous meeting.

Sr. no.	Observation raised by SEAC	Reply of the Project Proponent
1.	The Project Proponent has proposed to discharge the wastewater in the GMADA sewer without treatment and proposed to get it treated in the 45 MLD STP of GMADA installed in Sector 83, Mohali. However, in the other projects coming up in the Super Mega Project, the Project Proponent had proposed to install separate STP at the time of obtaining Environmental Clearance of each individual project. What is the reason the Project Proponent has not proposed individual STP in this project.	The Project Proponent informed that it had proposed Common STP of 2.8 MLD capacity for the Super Mega Project at the time of obtaining Environmental Clearance for Galaxy Heights, Sky Gardens and IT Twin Towers. Similarly, it has proposed the same Common STP of 2.8 MLD capacity for Galaxy Heights -II also.
2.	The Project Proponent has proposed to utilize fresh water from the borewells provided in the Super Mega Project. The Project Proponent is required to submit documentary evidence in support of the	The Project Proponent submitted documentary evidence in the form of design calculation that Residential Pocket-II (Galaxy

	claim that the Galaxy Height II was part of the ground water demand proposal of the Super Mega Project.	Heights-II) was part of the water demand of Super Mega project.

The SEAC further raised following observations to the Project Proponent:

Sr. No.	Observation raised by SEAC	Reply of the Project Proponent
1.	The Project Proponent shall install STP of 2.8 MLD capacity based on latest technology including tertiary treatment.	The Project Proponent agreed to install 2.8 MLD capacity STP based on SBR Technology including tertiary treatment for the Super Mega Project including Galaxy Heights-II and to re-use part of the same for flushing purposes in different projects falling in the Super Mega Project.
2.	The Project Proponent was asked to provide the details of water consumption viz-a-viz wastewater generation from the different components such as residential, EWS, commercial, institutional, industrial etc. falling in Sector 66A, Sector 82 & Sector 83.	The Project Proponent submitted the said details.
3.	As per the proposal, the total land area of the project is 14528.19 sqm but as per the KML file, the area of the site is about 12000 sqm.	The difference in the area between the actual area and the area shown in the KML file is due to oversight. The actual land area of the project is 14528.19 sqm. The Project Proponent submitted corrected KML file in this regard.

SEAC was satisfied with the reply of the Project Proponent and took it on record.

After detailed deliberations, SEAC decided to award 'Silver Grading' to the project proposal and to forward the application of the project proponent to SEIAA with the recommendations to grant Environmental Clearance to M/s JLPL for the establishment of residential project namely "Galaxy Heights II" located at Sector-66A, Mohali, Distt. SAS Nagar, 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 and subject to the following conditions:-

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 bye laws.

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 the 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 the 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 127 KL/day, out of which fresh water demand of 95 KL /day shall be met through borewells of Super Mega Mixed Use Industrial Project and remaining through recycling of treated wastewater from the STP of Super Mega project. 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 102 KL/day, which will be treated in proposed STP of 2.8 MLD capacity located within the Super Mega

Mixed Use Industrial Project. As proposed, reuse of treated wastewater shall be as under:-

Sr. No.	Season	For Flushing purposes (KLD)	Green Area (KLD)
1.	Summer	32	21
2.	Winter	32	7
3.	Rainy	32	2

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 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) 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 10 no. rain water 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.

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 a phased manner viz a viz in the module system designed in such a way so as to efficiently treat the wastewater with an increase in its quantity due to rise in occupancy. The treated effluent from STP shall be

recycled/reused for flushing and gardening. No treated water shall be disposed of into the municipal storm water 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 and other end-uses. Excess treated water shall be discharged as per statutory norms notified by the Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.

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 neighbouring 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 (@ 185 trees of native varieties) 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. Environment Management Plan

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

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

iii) Action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year-wise funds earmarked for environmental protection measures shall be kept in separate accounts and not to be diverted for any other purpose. The project proponent shall spend the minimum amount of Rs. 106 Lacs towards the capital cost and Rs. 12 Lacs/annum towards recurring cost in the construction phase of the project including the environmental monitoring cost and shall spend the minimum amount of Rs. 15.1 Lacs/annum towards the 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 the environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year-wise progress of implementation of the 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, if obtained.

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.

Item No. 200.02 Application for Environmental Clearance of API manufacturing Industrial Unit Namely "M/s Essix Biosciences Limited" located at Plot No. – B4 & B5, Industrial Focal Point, Dera Bassi, SAS Nagar, Punjab.(Proposal No. SIA/PB/IND2/206547/2021).

The industry has applied for obtaining Environment Clearance for carrying out expansion of the existing unit at the same location with the increase in the production capacity from 160 Kg/day to 217.27 Kg/day. The industry has submitted all the requisite documents as per the EIA notification dated 14.09.2006 along with requisite fee of Rs. 50,000/- vide UTR No. IBKL210326875711dated 26.03.2021. The industry also deposited Rs. 1,86,400/- vide DD no. 010538 dated 16.04.2021 and Rs. 1,00,000/- vide DD no. 010537 dated 16.04.2021.

The project proponent has applied the application as B2 project in light of O.M dated 27.03.2020, 21.05.2020 & 15.10.2020, Since the project has applied for obtaining Environmental Clearance before 30.03.2021(on 27.03.2021), the project can be considered as B2 category project.

PPCB was requested to send the latest construction status report of the project through e-mail on 01.04.2021.

1.0 Deliberations during 199th meeting of SEAC held on 23.04.2021

The meeting was attended by the following:

1. Sh. Sandeep Garg, EIA Coordinator, M/s Eco Laboratories Pvt Ltd.
2. Mr. Atul Kumar Chaubey, authorized signatory, on behalf of Project Proponent.

SEAC observed that Punjab Pollution Control Board vide letter no. 2061 dated 19.04.2021 has sent the latest construction status report. The contents of the report are given as under:

"In above regard, it is intimated that the industry was earlier granted consent to operate under the Water (Prevention & Control of Pollution) Act, 1974 vide

no. CTOW/Renewal/SAS/2020/12685008 dated 20/07/2020 having validity upto 31/03/2021 and Air (Prevention & Control of Pollution) Act, 1981 vide no. CTOA/Renewal/SAS/2020/12684695 dated 13/07/2020 having validity upto 31/03/2021 for manufacturing of Pentazocin – 5 @ 0.160 MTD, CND – 4 to 9 @ 0.160 MTD, GA - 1 to 2 @ 0.160 MTD, B - 4, 5 @ 0.160 MTD, Ephedrine Hydrochloride @ 0.07 MTD, subject to suitable conditions. It is pertinent to mention here that the industry has already applied for renewal of 'consent to operate' under the Air (Prevention & Control of Pollution) Act, 1981, which is under process.

Now, in reference to your email dated 01.04.2021, it is intimated that M/s Essix Biosciences Ltd., B-4 & 5, Focal Point, Dera Bassi, Distt. SAS Nagar has applied for environmental Clearance for addition of products i.e. A-2 Intermediate of Atorvastatin Calcium; DMI-02 Intermediate of Donepezil Hydrochloride; EZE-III Intermediate of Ezetimibe; FEX – 8 Intermediate of Fexofenadrine; AZE-04 & AZE-05 Intermediates of ISLL-C-361; IMN – 03, IID-04 & IBV-07 Intermediates of Ivabradine; LET-01 Intermediate of Letrazole; MNPPA Intermediate of Ropinirole & PTZ -7 Intermediate of Pentazocine. The overall production capacity of the added products will be 217.27 kg/day.

The point wise reply of the comments sought by SEIAA from this office relating to the subject cited industry through the referred email, is given as under:

Sr. No.	***Report of point sought by SEIAA***	***Remarks***
1.	*Construction status of the proposal.*	*During the conduct of visit, it was verified that the industry has not installed the proposed additional machinery at site.*
2.	*Status of physical structures within 500 m radius of the site including the status of industries, if any.*	*The industry is located in Industrial Focal Point, Dera Bassi at coordinates 30.6045801, 76.8557028. Being located on the Southern side of Industrial Focal Point, Dera Bassi, the industry is surrounded by industrial units in the North, East & West side. Also, there exists one Choe namely Dhabi Nallah traversing from the back side of the industrial premises which connects*

		with Dera Bassi Choe, which further leads to river Ghaggar. On the other side of the drain there exists many a residential projects which are either already constructed/ occupied or are under construction such as Garden Enclave on the East side, Green Enclave on the Southern side, Ubber Palm Heights on the South West side, Bella Homes on the Western side, Parsvnath Builders on Southern side.
3.	*Whether the site meets with the prescribed criteria for setting up of such projects.*	*The industry is located in designated industrial area as per the provisions of the notified Master Plan of Dera Bassi, however, many a residential projects which are either already constructed/ occupied or are under construction are located within the 500 m radius of the industry. Although, the industry is meeting with the prescribed criteria for setting up of such projects, however, it is recommendable that the industry shall provide appropriate green belt of broad leaf trees towards the construction projects.*

SEAC observed that the Project Proponent has not started any construction activity at the site.

SEAC allowed the Environmental Consultant of the Project Proponent to present salient features of the project which is presented as under:

1.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time)	B2 5(f)- 'Synthetic Organic Chemicals Industry' - API

<table>
<tr><td>2.</td><td>Whether the project falls in the critical polluted area notified by MoEF&CC /CPCB. (Yes/No)
If no and the proposed project site lies in the same or neighbouring district of critically polluted area, then details the distance of project site from the boundary of critically polluted area verified by the regional office of SPCB. (Submitted/Not submitted)</td><td>No. The project does not fall in the critical polluted area notified by MoEF&CC/CPCB.
The nearest critically polluted area is Ludhiana which is not within the district or neighbouring district.</td></tr>
<tr><td>3.</td><td>Total Project Cost (In Crores):

Total project cost breakup at current price level duly certified by Chartered Engineer/ Approved valuer or Chartered Accountant</td><td>(a) Total Project Cost (In Crores): Total estimated cost of the unit is Rs. 33.64 crores; out of which, existing project cost is Rs. 28.64 crores.
(b) Total project cost breakup is given below:
<table>
<tr><th>S.N</th><th>Description</th><th>Existing (Rs. In Crores)</th><th>Proposed (Rs. in Crores)</th><th>Total Cost (Rs. in Crores)</th></tr>
<tr><td>1.</td><td>Cost of Land at current price level</td><td>3.06</td><td>-</td><td>3.06</td></tr>
<tr><td>2.</td><td>Building</td><td>2.43</td><td></td><td>2.43</td></tr>
<tr><td>3.</td><td>Plant & Machinery</td><td>21.58</td><td>5</td><td>26.58</td></tr>
<tr><td>4</td><td>Others</td><td>1.56</td><td>-</td><td>1.56</td></tr>
<tr><td colspan="2">Total</td><td>28.64</td><td>5</td><td>33.64</td></tr>
</table></td></tr>
<tr><td>4.</td><td>Details of technology proposed for control of emissions & effluents generated from project</td><td>
<table>
<tr><th>S. No.</th><th>Details of proposed APCD/STP/ ETP/ ZLD/ Continuous online monitoring system</th><th>Technology to be adopted by new unit/After expansion</th><th>Capacity proposed technology</th><th>of</th></tr>
<tr><td>1</td><td>APCD</td><td>Dust Collector followed by Wet Scrubber</td><td>-</td><td></td></tr>
</table></td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>2</td><td>ETP</td><td>Existing ETP</td><td>50 KLD capacity</td><td></td></tr>
<tr><td>3</td><td>Thermal Evaporator</td><td>-</td><td>Existing 10 KLD; After expansion 16 KLD</td><td></td></tr>
<tr><td>4</td><td>Continuous online emission/effluent monitoring system</td><td>Installed</td><td>…….</td><td></td></tr>
</table>
</td></tr>
<tr><td>5.</td><td>Plot Area Details</td><td>
<table>
<tr><th>S. No.</th><th>Details</th><th>Area</th></tr>
<tr><td>1.</td><td>Total Land Area</td><td>9,699.27 sq.m.</td></tr>
<tr><td>2.</td><td>Total Covered Area</td><td>2,462.56 sq. m.</td></tr>
<tr><td>3.</td><td>Green Area (@ 25%)</td><td>2,400.34 sq. m.</td></tr>
<tr><td>4.</td><td>Roads & Other Area</td><td>4,836.37 sq. m.</td></tr>
</table>
</td></tr>
<tr><td>6.</td><td>Type of project land as per master plan (Industrial/ Agriculture/ Any other), If non industrial land then the details of Land Use Certificate / permissibility Certificate from Competent Authority (DTP/CTP) intimating land use pattern of the project site as per proposals of Master Plan of the area. (Submitted/Not Submitted)</td><td>Project falls in Industrial Focal point, Derabassi of PSIEC.</td></tr>
<tr><td>7.</td><td>ToR compliance report (Submitted/ not submitted)</td><td>TOR is not applicable as project is being submitted in Cat. B2 project.</td></tr>
<tr><td>8.</td><td>Compliance report of public hearing proceedings (Action Taken) submitted or not submitted</td><td>Public Hearing is not applicable as project is being submitted in Cat. B2 project.</td></tr>
</table>

<table>
<tr><td>9.</td><td>Whether any litigation pending against the project or any direction/order passed by SPCB/ Court of Law against the project, if so, details there of shall also be included.
Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.</td><td>There is no litigation pending against the industry.</td></tr>
<tr><td>10</td><td>Raw material details:</td><td>The list of raw materials is mentioned in Pre-feasibility report.</td></tr>
<tr><td>11</td><td>Production Capacity details:</td><td>Current production: 160 Kg/day
Production after expansion: 217.27 kg/day.</td></tr>
<tr><td>12</td><td>Manpower requirement (After expansion)</td><td>150 persons. No additional workers are required for expansion.</td></tr>
<tr><td>13</td><td>Details of Emissions (After expansion)</td><td><table>
<tr><th>S. No.</th><th>Source</th><th>Capacity</th><th>Chimney Height from GL</th><th>APCD</th><th>Fuel Used</th></tr>
<tr><td>1.</td><td>Boiler</td><td>1.5 TPH</td><td>24 m</td><td>Wet scrubber</td><td>Agro based Briquettes</td></tr>
<tr><td>2.</td><td>DG Set</td><td>500 KVA-1No.</td><td>9.2 m</td><td>-</td><td>H.S.D</td></tr>
<tr><td>3.</td><td>DG Set</td><td>380 KVA-1 No.</td><td>8.3 m</td><td>-</td><td>H.S.D</td></tr>
</table></td></tr>
<tr><td>14</td><td>Hazardous/Non-Hazardous Waste Generation details & their storage, utilization and its disposal. Copy of Agreement clearly mentioning the Quantity</td><td><table>
<tr><th>Category</th><th>Name of Hazardous</th><th>Existing load of Hazardous</th><th>Proposed total load of Hazardous waste after</th><th>Mode of Disposal</th></tr>
</table></td></tr>
</table>

				waste	**Expansion**		
		5.1	Used Oil	240 Lit/annum	1100 Lit / annum.	Sale to Recycler (Shiva Traders)	
		20.3	Distillation Residue	3660 Lit/ annum	329.83 kg / day	Send to Sister concern M/s Indswift Laboratories Limited for Incineration	
		28.1	Process Salt And Waste	163520 kg/annum	135.19 kg / day	Send to Sister concern M/s Indswift Laboratories Limited for Incineration	
		28.2	Spent Catalyst	-	5.37 kg / day	Send back to vendor for Reprocessing	
		28.3	Spent Carbon	120 kg/ annum	2.84 kg / day	Send to Sister concern M/s Indswift Laboratories Limited for Incineration	
		28.4	Off Specification Drugs	18 kg/ annum	2.0 kg / day	Send to Sister concern M/s Indswift Laboratories Limited for Incineration	
		28.5	Date Of Expired Product	18 kg/ annum	2.0 kg / day	Send to Sister concern M/s Indswift Laboratories	

						Limited for Incineration	
		28.6	Spent Solvent	-	3080.97 kg / day	Sale to Approved Vender	
		33.1	Liners	-	10 kg / day	Sale to Approved Vender (Surya Chemicals)	
		33.1	Discarded Containers	8 Nos / Month	10 Nos. / day	Sale to Approved Vender (Surya Chemicals)	
		35.3	Etp Sludge	3 kg/ day	35 kg / day	Send to Nimbua Greenfield (Punjab) Limited	
		37.3	Evaporation Residue		687.03 kg / day	Send to Nimbua Greenfield (Punjab) Limited	

15.	Solid Waste generation and its mode of disposal:	**Details**	**Unit**	**Existing Qty**	**Proposed Quantity**	**Total Quantity after expansion**	**Disposal method**	
		Domestic Solid Waste	Kg/ day	30 kg/day			Composting and to piggeries; for future echanical	

							omposte r	
		Recycla ble Paper	Kg/ month	25	75	100	To be sold to the local scrap dealers.	
16.	Waste water generation & its disposal Arrangement in Operation Phase:	**Details**	**Existing Qty (KLD)**	**Propo sed Quant ity (KLD)**	**Total Quantity after expansi on (KLD)**		**Treatment method**	
		Low TDS Wastewat er	13.7 KLD	31.3 KLD	45 KLD		Will be Treated in ETP of 50 KLD capacity. The treated waste water will be re-circulated in and cooling tower and for landscape purpose. However, approx. 0.27 acre of landscape area has been developed under Karnal Technology for discharging	

						treated wastewater.	
		High TDS wastewater	10 KLD	6 KLD	16 KLD	Thermal evaporator of 16 KLD capacity will be provided for treatment of wastewater	
17	Details of the block in which the project site is located as per CGWA guideline (Notified/ Non-Notified area and name of block)	Non Notified area; Block- Derabassi					
18	Breakup of Water Requirements & its source in Operation Phase:						

Sr. No.	Description	Existing	Proposed	Total (After Expansion)
1.	Fresh Water Demand	28.3 KLD	16.7 KLD	45 KLD
2.	Source	Borewell & PSIEC		
3.	Wastewater generated	13.7 KLD	31.3 KLD	45 KLD
4.	ETP for low TDS wastewater	ETP of 50 KLD		
5.	Thermal Evaporator for high TDS wastewater	10 KLD	6 KLD	16 KLD

Sources of water:

S.N	Purposes	Source of water

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>o.</td><td></td><td></td></tr>
<tr><td>1.</td><td>Domestic</td><td>Tubewells & PSIEC</td></tr>
<tr><td>2.</td><td>Make-up water demand for cooling</td><td>Tubewells & treated water</td></tr>
<tr><td>3.</td><td>Green area water demand</td><td>Treated water</td></tr>
</table>
</td></tr>
<tr><td>19</td><td>Water balance chart for Summer, Rainy and Winter seasons (Submitted/Not Submitted)</td><td>The water balance chart for 3 seasons i.e. Summer, Winter and Monsoon submitted along with application.</td></tr>
<tr><td>20</td><td>Rain Water utilization proposal during monsoons (Submitted/ Not Submitted)</td><td>Not submitted</td></tr>
<tr><td>21</td><td>Rain Water Harvesting proposal (within/outside premises) along with NOC from concerned village sarpanch (Submitted/Not Submitted)</td><td>The industry is planning to adopt pond for rainwater recharging.</td></tr>
<tr><td>22</td><td>Blockwise details of no. of trees to be planted in proposed greenbelt area (1500 Trees to be planted @ 10000 Sqm area):</td><td>
<table>
<tr><th>S. Nos.</th><th>Green Area (Sq.m.)</th><th>Existing Trees</th><th>Proposed Trees</th></tr>
<tr><td>A.</td><td>5.60</td><td>05</td><td>-</td></tr>
<tr><td>B.</td><td>482.58</td><td>99</td><td>-</td></tr>
<tr><td>C.</td><td>244.24</td><td>30</td><td>-</td></tr>
<tr><td>D.</td><td>59.66</td><td>21</td><td>-</td></tr>
<tr><td>E.</td><td>607.47</td><td>122</td><td>05</td></tr>
<tr><td>F.</td><td>14.59</td><td>04</td><td>32</td></tr>
<tr><td>G.</td><td>38.67</td><td>08</td><td>01</td></tr>
<tr><td>H.</td><td>41.20</td><td>08</td><td>01</td></tr>
<tr><td>I.</td><td>60.28</td><td>08</td><td>03</td></tr>
<tr><td>J.</td><td>57.47</td><td>04</td><td>-</td></tr>
<tr><td>K.</td><td>115.38</td><td>11</td><td>-</td></tr>
<tr><td>L.</td><td>438.66</td><td>41</td><td>07</td></tr>
<tr><td>M.</td><td>234.54</td><td>27</td><td>17</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td>Total Green Area = 2400.34 Sq.m.</td><td>388</td><td>36</td></tr>
</table>
Total 2,400.34 sq.m. of green area has been provided within the industry. But 33 % area has not been earmarked for green area.
</td></tr>
<tr><td>23</td><td>Energy requirements & savings:

Energy saving measures to be adopted within industry:</td><td>
a. The details of the energy are given below:
<table>
<tr><th>S. No.</th><th>Description</th><th>Unit</th><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1.</td><td>Power load</td><td>KW</td><td>1049</td><td>-</td><td>1049</td></tr>
<tr><td>2.</td><td>D.G sets</td><td>KVA</td><td>1 × 500 + 1 × 380</td><td>-</td><td>1 × 500 + 1 × 380</td></tr>
</table>
Replaced existing CFL lamps with lower wattage LED lamps in manufacturing facility to save energy of 100 Units/day. Efficiency of small chilled water compressor (40 HP) increased to reduce big compressor (120 HP) running hrs resulting in saving of 300 units per day.
</td></tr>
<tr><td>24</td><td>EMP Budget details

Details of Environment Management Cell (EMC) responsible for implementation of EMP</td><td>
a. EMP budget details:
<table>
<tr><th>No</th><th>Environmental Protection Measures</th><th>Capital Cost Rs. Lakh</th><th>Recurring Cost Rs. Lakhs/ annum</th></tr>
<tr><td></td><td>Air Pollution Control</td><td>4</td><td>1</td></tr>
<tr><td></td><td>Water Pollution Control</td><td>35</td><td>2</td></tr>
<tr><td></td><td>Landscaping</td><td>2</td><td>0.5</td></tr>
<tr><td></td><td>Solid & Hazardous Waste Management</td><td>10</td><td>9.5</td></tr>
</table>
</td></tr>
</table>

		5.		Environment Monitoring & Management	11	4	
		6.		Occupational Health Surveillance	0	0.5	
		7.		Safety training to workers	0	0.25	
				Total	**62**	**17.75**	
			b. Details of Environment Management Cell (EMC) responsible for implementation of EMP. Mr. Atul Kumar Chaubey, Vice President (HR & EHS) of M/s Essix Biosciences Limited is responsible for implementation of Environment Management Plan.				
25	Details of the activities proposed to be covered under CER be provided.		Mr. Atul Kumar Chaubey, Vice President (HR & EHS) of M/s Essix Biosciences Limited will be responsible for implementation of CER (Corporate Environment Responsibility). As per notification, CER is part of EMP only.				
26	Project area involves forest land, (Yes/No), **If yes,** then details of the the extent of area involved and copy of permission & approval for the use of forest land		No, industry falls in Industrial Focal Point of PSIEC, Derabassi.				

SEAC raised following observations to the Project Proponent.

Sr. No.	Observations	Reply
1.	The Project Proponent is required to submit proper proposal for green belt development to the	The Project Proponent sought some time to give reply in this regard.

	tune of 33% of the total project area.	
2.	The Project Proponent is required to submit proper proposal for rainwater harvesting.	The Project Proponent sought some time to give reply in this regard.

SEAC accepted the request of the Project Proponent and decided to defer the case till next meeting subject to submission of reply by it.

2.0 Deliberations during 200th meeting of SEAC held on 07.05.2021

The meeting was attended by the following:

1. Sh. Sandeep Garg, EIA Coordinator, M/s Eco Laboratories Pvt Ltd, Mohali.
2. Mr. Atul Kumar Chaubey, authorized signatory, on behalf of Project Proponent.

SEAC allowed the Project Proponent to submit reply to the observations raised in the earlier meeting, which he replied as under:

Sr. No.	Observations	Reply
1.	The Project Proponent is required to submit proper proposal for green belt development to the tune of 33% of the total project area.	The Project Proponent has already kept 25% of plot area i.e. 2,400.34 Sqm. under green belt within the project premises. He further made 10 year lease agreement for additional land of 1,500 Sqm to meet the requirement of 33% green belt development. The additional land is located in village Haibatpur, Dera Bassi which is at a distance of 2.97 Km from the project site. The Project Proponent submitted lease agreement and land document in this regard. Thus, overall green area will be 3,900.34 Sqm. (which is 40.21% of plot area) which includes i.e. 2,400.34

		Sqm. as well as additional land of 1,500 Sqm. Landscape plan showing the green area within the premises as well as on the additional land has been submitted.
2.	The lease is valid for a period of 10 years. The Project Proponent is required to submit proposal to be adopted for maintenance of green area in case the lease is not renewed.	The Project Proponent submitted that the lease deed of additional land measuring 1,500 Sqm. for development of green area will be renewed prior to expiry of validity of lease. Further, in case lease is not renewed then, other land will be arranged for development of green area.
3.	The Project Proponent is required to submit proper proposal for rainwater harvesting.	The Project Proponent submitted that village pond in Village Rampur Bahal, Tehsil Dera Bassi, District SAS Nagar will be adopted. The Project Proponent submitted a copy of the NOC given by Sarpanch in this regard.

SEAC was satisfied with the reply given by the Project Proponent and took the copy of the same on record.

After detailed deliberations, SEAC decided to award **'Silver Grading'** to the project proposal under category B2, Activity 5 (f) as per MOEF&CC OM dated 13.04.2020 and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for expansion of the existing unit namely "M/s Essix Biosciences Limited" located at Plot No. – B4 & B5, Industrial Focal Point, Dera Bassi, SAS Nagar, Punjab as per the details mentioned in the application & subsequent presentation /clarifications made by the project proponent & his consultant with following conditions:

I. Statutory compliance

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

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

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

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

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

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

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

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

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

II. Air quality monitoring and preservation

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

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

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

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

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

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

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

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

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

the mitigation measures should be taken to bring down the levels within the prescribed standards.

III. Water quality monitoring and preservation

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

ii. The project proponent will provide Thermal Evaporator of 16 KLD for the treatment of high TDS wastewater generated from the process. The condensate shall be utilized in the cooling tower and boiler. ETP of 50 KLD capacity will be provided for the treatment of low TDS wastewater, sewage water and wastewater generated from floor washing and Equipment washing. The treated wastewater from the ETP shall be utilized in the cooling tower, boiler as well as for landscaping.

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

iv. Total fresh water requirement shall not exceed 45 KLD which will be met through borewell as well as PSIEC supply. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

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

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

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

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

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

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

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

IV. Noise monitoring and prevention

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

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

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

V. Energy Conservation measures

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

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

VI. Waste management

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

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

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

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

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

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

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

a. Metering and control of quantities of active ingredients to minimize waste.

b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.

c. Use of automated filling to minimize spillage.

d. Use of Close Feed system into batch reactors.

e. Venting equipment through vapour recovery system.

f. Use of high-pressure hoses for equipment clearing to reduce wastewater generation

VII. Green Belt

i. The green belt shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction and in an additional land of 1500 sqm. in village Haibatpur, Dera Bassi as per proposal submitted by the Project Proponent. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Total 474 trees (out of which, existing 388 trees) to be planted without accounting the shrubs and protect the same with tree guard made of concrete.

VIII. Safety, Public hearing and Human health issues

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

ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.

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

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

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

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

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

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

IX. Environment Management Plan

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

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

iii) Action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year-wise funds earmarked for environmental protection measures shall be kept in separate accounts and not to be diverted for

any other purpose. The project proponent shall spend the minimum amount of Rs 32.0 Lacs towards the capital cost and Rs 17.75 Lacs/annum towards recurring cost 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 the environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year-wise progress of implementation of the action plan shall be reported to the Ministry/Regional Office along with the Six-monthly Compliance Report.

X Validity of Environmental Clearance.

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

XI. Miscellaneous

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

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

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

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

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

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

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

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

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

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

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

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

xiii. 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).

xiv. 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.

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

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

xvii. 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 and PPCB by furnishing the requisite data / information/monitoring reports.

xviii. 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.

xix. 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.

XII. ADDITIONAL CONDITIONS:

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

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

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

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

v. The project proponent shall practice rainwater harvesting to maximum possible extent. For this, village pond located at Village Rampur Bahal shall be adopted for desilting to recharge the rainwater. 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.

Item No. 200.03 Application for issuance of ToRs for Environment Clearance for increasing the production capacity of Steel manufacturing unit located at village Wazirabad, Sirhind, District Fatehgarh Sahib, Punjab by M/s JMK Industries (Proposal No. SIA/PB/IND/62607/2021).

M/s JMK Industries is the existing steel manufacturing unit located at village Wazirabad, Sirhind Side, Distt. Fatehgarh Sahib, Punjab. The existing industrial unit deals with the manufacturing of Billets/Ingots. The existing production capacity of the industrial unit is 84 TPD with induction Furnace of capacity 7 TPH.

Now, the industry wants to increase their production capacity by installing two additional induction furnaces of capacity 20 TPH each, rolling mill & pipe plant. However, the existing induction furnace of capacity 7 TPH remains same. Thus, after expansion the production capacity of the industrial unit will become 2,40,000 TPA for manufacturing of Ingots/Billets, Patra & Pipe with 1 induction furnace of capacity 7 TPH, 2 induction furnace of capacity of 20 TPH each, rolling mill & pipe plant. Total cost of the project including the expansion will be Rs. 43.56 crores.

1. The project proponent submitted the Form I, Pre-feasibility report and other additional documents on online portal. He has also deposited the requisite fee of Rs. 1,13,800/- through NEFT No. IDIBH21062495615 dated 03.03.2021. The Project Proponent has deposited 25% of the total fee prescribed for the Environmental Clearance being at ToR stage and the rest 75% of the fee i.e. Rs. 3,26,700/- will be paid at the time of applying for Environmental Clearance.
2. The project proponent during the presentation to the committee be ask to present the applicability of General Condition, suitability of site, land details etc.

1.0 Deliberations during 200th meeting of SEAC held on 07.05.2021

The meeting was attended by the following:

1. Rakesh Kumar Bansal, Partner, authorized, signatory, on behalf of Project Proponent.
2. Sh. Sandeep Garg, EIA Coordinator, M/s Eco Laboratories Pvt Ltd., Mohali.

SEAC allowed the Environmental Consultant of the Project Proponent to present salient features of the project which he presented as under:

S.	Item	Details
1.	Name and Location of the project	Steel manufacturing unit for increasing the production capacity to 2,40,000 TPA for the project namely "JMK Industries" located at Village Wazirabad, Sirhind Side, Distt. Fatehgarh Sahib
2.	Project/ activity covered under item of scheduled to the EIA	The project falls under S. No. 3(a): Metallurgical Industries (ferrous & non ferrous).
3.	Whether the project is in critical polluted area or not.	No, the project does not fall in critical polluted area.
4.	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 forest land.
5.	a) 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. b) Is the project covered under PLPA, 1900, if yes	Project is not covered under PLPA 1900 as well as not located near to PLPA area. Not applicable.

<table>
<tr><td></td><td>then Status of the NOC. w.r.t PLPA, 1900.</td><td></td></tr>
<tr><td>6.</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.
b. Status of clearance from National Board for Wild Life (NBWL).</td><td>Not applicable, No Wildlife Sanctuary falls within 10 km of the project area.</td></tr>
<tr><td>7.</td><td>Classification/ Land use pattern as per Master Plan</td><td>The project falls in industrial zone as per the master plan of Mandi Gobindgarh, Punjab.</td></tr>
<tr><td>8.</td><td>Cost of the project</td><td><table><tr><th>S. No.</th><th>Existing cost (Rs. in lakhs)</th><th>Proposed cost (Rs. in lakhs)</th><th>Total cost after expansion (Rs. in lakhs)</th></tr><tr><td>1.</td><td>750.92</td><td>3,605.08</td><td>4,356.00</td></tr></table></td></tr>
<tr><td>9.</td><td>Total Plot area, Built-up area and Green area</td><td><table><tr><th>S. No.</th><th>Description</th><th>Area (in sq.m.)</th></tr><tr><td>1.</td><td>Total land area</td><td>19,429.15</td></tr><tr><td>2.</td><td>Existing covered area</td><td>2,327.88</td></tr><tr><td>3.</td><td>Proposed covered area</td><td>4,202.59</td></tr><tr><td>4.</td><td>Green Area</td><td>6,440.52</td></tr><tr><td>5.</td><td>Parking area</td><td>4,219.32</td></tr><tr><td>6.</td><td>Other areas</td><td>2,238.82</td></tr></table></td></tr>
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10.	Break up of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):	Total water requirement of the project will be 90 KLD meet through 2 borewells.
11.	Treatment & Disposal arrangements of wastewater in Construction Phase	Existing Septic Tank

The Project Proponent has submitted an undertaking that no construction activity has been done w.r.t. the proposed expansion. Further, additional machinery/ equipment will be installed after obtaining Environmental Clearance from the State Authorities.

SEAC was satisfied with the presentation and took a copy on record.

After detailed deliberations, it was decided to categorize the project under Activity 3(a); B-1 with public consultation as required for the project. The Committee approved the Terms of Reference for expansion of Steel manufacturing unit namely M/s JMK Industries located at village Wazirabad, Sirhind, District Fatehgarh Sahib, Punjab with increase in production capacity of the proposed unit from 84 TPD to 2,40,000 TPA for manufacturing of Ingots/Billets, Patra & Pipe with 1 induction furnace of capacity 7 TPH, 2 induction furnace of capacity of 20 TPH each, rolling mill & pipe plant for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the following TORs:

STANDARD TERMS OF REFERENCE

1) <u>Executive Summary</u>

Report in about 8-10 pages incorporating the following:

(i) Project name and location (Village, Distt., State, Industrial Estate (if applicable)
(ii) Products and capacities. If expansion proposal, then existing products with capacities and reference to earlier EC.

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

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

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

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

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

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

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

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

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

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

(xiii) CSR/CER plan with proposed expenditure.

(xiv) Occupational Health Measures

(xv) Post Project monitoring plan

(xvi) Synopsis of the project (as available on web site i.e. www.pbdecc.gov.in)

2) <u>Introduction</u>

(i) Details of the EIA Consultant including NABET accreditation

(ii) Information about the project proponent

(iii) Importance and benefits of the project

3) Project Description

(i) Cost of project and time of completion.

(ii) Products with capacities for the proposed project.

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

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

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

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

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

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

(ix) Hazard identification and details of proposed safety systems.

(x) In case of Expansion/modernization proposals:

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

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

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

4) Site Details

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

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

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

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

(v) Google map-Earth downloaded of the project site

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

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

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

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

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

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

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

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

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

5) Forest and wildlife related issues (if applicable):

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

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

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

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

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

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

6) Environmental Status

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

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

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

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

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

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

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

(viii) Soil Characteristic as per CPCB guidelines.

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

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

(xi) Socio-economic status of the study area.

7) Impact Assessment and Environment Management Plan

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

(ii) Water Quality modelling.

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

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

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

(vi) Measures for fugitive emission control

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

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

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

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

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

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

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

8) Occupational health

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

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

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

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

9) Corporate Environment Policy

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

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

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

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

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

11) Enterprise Social Commitment (ESC)

(i) To address the Public Hearing issues, 2.5% of the total project cost of (Rs.___crores), amounting to Rs.___crores, shall be earmarked by the project proponent, towards Enterprise Social Commitment (ESC). Distinct ESC projects shall be carved out based on the local public hearing issues. Project estimate shall be prepared based on PWD schedule of rates for each distinct Item and schedule for time-bound action plan shall be prepared. These ESC projects as indicated by the project proponent shall be implemented along with the main project. Implementation of such program shall be ensured by constituting a Committee comprising of the project proponent, representatives of village

Panchayat & District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office. No free distribution/donations and or free camps shall be included in the above ESC budget

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

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

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

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

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

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

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

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

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

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

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

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

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

C. ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC

1. Public consultation is required for the projects as not located in notified industrial parks/estates.
2. 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)
3. 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.
4. 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
5. Compliance of the siting criteria, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
6. Necessary permissions from the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA)/concerned authority for the abstraction of groundwater for the existing requirements as well as for the expanded unit. In case of not allowing such permission by the concerned authority for the abstraction of additional groundwater for the expanded project, the project proponent shall propose alternative arrangements to meet out the additional water requirements. It shall be ensured that: -
    a) In the projects where groundwater is proposed as a water source, the project proponent shall apply to the Central Groundwater Authority (CGWA)/ State Groundwater Authority (SGWA), as the case may be, for obtaining No Objection Certificate (NOC) if applicable.

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

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

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

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

9. 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.

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

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

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

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

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

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

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

17. 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.

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

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

20. Examine and submit the proposal for: -

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

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

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

21. Air Pollution Control Arrangement details shall be provided as below:

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

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

23. 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

The following general points shall be noted:

(i) The EIA document shall be printed on both sides, as for as possible.

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

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

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

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

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

(vii) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF vide notification dated

03.03.2016 which is available on the website of this Ministry shall also be followed.

(viii) The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.

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.

Where the documents provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for the conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification,2006. The Public Hearing shall be chaired by an Officer, not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and summarized in a tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the commitments made.

If any part of the data/information submitted by the project proponent is found to be false or misleading at any stage, then SEIAA & SEAC will not be responsible for the expenditure incurred on the project due to the issuance of this ToR or subsequent work carried out by the project proponent for conducting EIA study or for any other activity related to the project.

The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

Item no.200.04: Application for issuance of ToR for manufacturing of 1,31,250 TPA of steel ingots/Billets, Angles, Channels, Rounds, Square, TMT Bars, Flats, Patra by upgrading existing induction furnace of 7TPH capacity with new induction furnace having capacity 10 TPH and addition of one induction furnace of 15 TPH concast, Laddle Refining furnace (LRF) of 20 TPH, AOD, VD and rolling mill at village Mullanpur Kalan, Mandigobindgarh, District Fatehgarh Sahib, Punjab by M/s Natural Casting. (SIA/PB/IND/63023/2021).

The proposed project of Natural Castings is located at Village-Mullanpur Kalan, Mandigobindgarh, District Fatehgarh Sahib, Punjab. The Industry has already got CTO for manufacturing of Steel Ingots @ 82TPD through Induction Furnace. The existing capacity of Induction Furnace is 7TPH.The project proponent proposes to increase the capacity of unit by upgrading existing Induction Furnace 7TPH to 10 TPH and addition of one Induction Furnace of capacity 15TPH, Concast, Laddle Refining Furnace (LRF) of 20TPH, AOD, VD and rolling mill. Total capacity of the project after expansion will be 1, 31,250 TPA of Steel Ingots/billets, Angles, Channels, Rounds, Square, TMT Bars, Flats, Patra.

The existing land area of the project is 1.25 Acre. About 2 Acre additional land will be required for expansion. The total land area after expansion will be 3.25 acres. The project cost after expansion including existing cost will be Rs 15.79 Crores

1. The project proponent submitted the Form I, Pre-feasibility report and other additional documents on online portal. He has also deposited the requisite fee of Rs. 39,475/- through NEFT No. 000340638355 dated 01.05.2021. The Project Proponent has deposited 25% of the total fee prescribed for the Environmental Clearance being at ToR stage and the remaining 75% of the fee i.e. Rs. 1,18,425/- will be paid at the time of applying for Environmental Clearance.

2. The project proponent during the presentation to the committee be ask to present the applicability of General Condition, suitability of site, land details etc.

1.0 Deliberations during 200th meeting of SEAC held on 07.05.2021

The meeting was attended by the following:

1. Sumit Chahal, Partner.
2. Sh. Sital Singh, EIA Coordinator, M/s CPTL, Mohali.

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

Sr. No.	Description	Details
1.	Name and Location of the project	M/s Natural Castings located at Village- Mullanpur Kalan, Mandi Gobindgarh District Fatehgarh Sahib, Punjab.
2.	In case of expansion projects, whether granted EC earlier, if Yes, then provide its details	It is an expansion project. But the existing capacity is less than 30,000 TPA, earlier EC was not required.
3.	Nature of project (Fresh EC/EC for Expansion/New)	Expansion
4.	Whether project falls within 5km from the boundary of critically polluted area (Yes/No)	No
5.	Existing production Capacity (TPA)	Steel Ingots/billets- 28,700 TPA
6.	Details TOR processing fee submitted (25% of the total project cost)	An amount of Rs. 39,475/- submitted through NEFT no.- 000340638355 on dated 01.05.2021.
7.	Undertaking to reflect that project is neither located near to PLPA area nor fall in the PLPA area	The project site is neither located near to PLPA area nor fall in PLPA area.
8.	Classification/Land use pattern as per Master Plan	The site falls in Medium & heavy Industry zone as per master plan of Mandi Gobindgarh (2010-2031)
9.	Details proof of land including Khasra no.	**Total Land** – (3.25 acres) Kharsa no.- 346/322/6/4, 346/322/6/3, 346/322/6/4, 346/322/6/3Min, 323 Min (14-14)

10	Details of CLU certificate	The industry is operating before 2005. Thus, CLU is not obtained. However, Industry falls under the industrial zone as per master plan of Mandi Gobindgarh (2010-2031)
11	Details of block as per CGWA guideline (Notified/ Non Notified area) in which project site is located	The project site falls in Sirhind Block which is non notified area as per CGWA guidelines.

12 Project Area Details:

S. No.	Details	Existing Land	Proposed Additional Land	Total land after Expansion
1.	Plot Area (in sqm)	5058.57	8093.71	13,152.28

13 Raw Material requirement as per following format:

S. No.	**Raw Material name**	**Existing (TPA)**	**Proposed (TPA)**	**After Expansion (TPA)**
1.	MS Scrap, CI, Sponge Iron, Ferro Alloys	31,150	1,11,300	1,42,450

14 Production Capacity as per following format :

S. No.	**Product name**	**Existing (TPA)**	**Proposed (TPA)**	**After Expansion (TPA)**
1.	Steel Ingots/billets, Angles, Channels, Rounds, Square, TMT Bars, Flats, Patra	28,700 (Steel ingots)	1,02,550	1,31,250

15 Details of major productive machinery/plant

S. No.	**Particulars**	**Existing**	**Proposed**	**After Expansion**

	1.	Induction Furnace, rolling mill	1X7TPH (Upgraded),	1X10 TPH, 1X15 TPH	1X10 TPH, 1X15 TPH
	2.	Rolling mill	Nil	20 Ton/hr	20Ton/hr
	3.	Laddle Refining Furnace(LRF)	Nil	20TPH	20TPH
	4.	Concast	Nil	01 No.	01 No.
	5.	AOD	Nil	01 No.	01 No.
	6.	VD	Nil	01 No.	01 No.
16	Status of Proposed ToRs		Standard TORs submitted.		

The Project Proponent has submitted an undertaking that no construction activity has been done w.r.t. the proposed expansion.

SEAC was satisfied with the presentation and took a copy of same on record.

After detailed deliberations, it was decided to categorize the project under Activity 3(a); B-1 with public consultation as required for the project. The Committee approved the Terms of Reference to M/s Natural Castings for manufacturing of 1,31,250 TPA of steel ingots/Billets, Angles, Channels, Rounds, Square, TMT Bars, Flats, Patra by upgrading existing induction furnace of 7TPH capacity with new induction furnace having capacity 10 TPH and addition of one induction furnace of 15 TPH concast, Laddle Refining furnace (LRF) of 20 TPH, AOD, VD and rolling mill located at village Mullanpur Kalan, Mandigobindgarh, District Fatehgarh Sahib, Punjab for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the following TORs:

STANDARD TERMS OF REFERENCE

1) Executive Summary

Report in about 8-10 pages incorporating the following:

(i) Project name and location (Village, Distt., State, Industrial Estate (if applicable)

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

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

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

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

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

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

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

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

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

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

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

(xiii) CSR/CER plan with proposed expenditure.

(xiv) Occupational Health Measures

(xv) Post Project monitoring plan

(xvi) Synopsis of the project (as available on web site i.e. www.pbdecc.gov.in)

2) Introduction

(i) Details of the EIA Consultant including NABET accreditation

(ii) Information about the project proponent

(iii) Importance and benefits of the project

3) Project Description

(i) Cost of project and time of completion.

(ii) Products with capacities for the proposed project.

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

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

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

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

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

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

(ix) Hazard identification and details of proposed safety systems.

(x) In case of Expansion/modernization proposals:

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

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

4) Site Details

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

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

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

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

(v) Google map-Earth downloaded of the project site

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

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

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

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

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

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

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

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

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

5) Forest and wildlife related issues (if applicable):

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

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

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

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

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

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

6) Environmental Status

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

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

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

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

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

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

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

(viii) Soil Characteristic as per CPCB guidelines.

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

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

(xi) Socio-economic status of the study area.

7) Impact Assessment and Environment Management Plan

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

(ii) Water Quality modelling.

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

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

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

(vi) Measures for fugitive emission control

(vii) Details of hazardous waste generation and their storage, utilization and disposal. Copies of MOU regarding utilization of solid and hazardous waste

shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

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

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

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

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

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

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

8) Occupational health

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

(ii) Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre-designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular

defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above-mentioned parameters as per age, sex, duration of exposure and department wise.

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

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

9) Corporate Environment Policy

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

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

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

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

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

11) Enterprise Social Commitment (ESC)

(i) To address the Public Hearing issues, 2.5% of the total project cost of (Rs.___crores), amounting to Rs.___crores, shall be earmarked by the project proponent, towards Enterprise Social Commitment (ESC). Distinct ESC projects shall be carved out based on the local public hearing issues. Project estimate shall be prepared based on PWD schedule of rates for each distinct Item and schedule for time-bound action plan shall be prepared. These ESC projects as

indicated by the project proponent shall be implemented along with the main project. Implementation of such program shall be ensured by constituting a Committee comprising of the project proponent, representatives of village Panchayat & District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office. No free distribution/donations and or free camps shall be included in the above ESC budget

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

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

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

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

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

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

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

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

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

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

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

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

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

C. ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC

1. Public consultation is required for the projects as not located in notified industrial parks/estates.
2. 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)
3. 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.
4. 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
5. Certificate from the concerned authority w.r.t the location of protected areas as notified under the Wildlife Protection Act, 1972 within 5 km radius from the boundary of the project site.

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

6. Compliance of the siting criteria, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.

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

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

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

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

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

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

10. 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.

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

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

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

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

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

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

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

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

18. 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.

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

20. Submit compliance w.r.t. condition no.II [(i) & (iii)] subtitled as "Air Quality Monitoring & Preservation" regarding continuous emission monitoring system and continuous ambient air quality monitoring as prescribed in the Standard

EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills issued by the MoEF&CC, New Delhi vide OM dated 09/08/2018.

21. Examine and submit the proposal for: -

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

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

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

22. Air Pollution Control Arrangement details shall be provided as below:

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

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

24. 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

The following general points shall be noted:

(i) The EIA document shall be printed on both sides, as for as possible.

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

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

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

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

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

(vii) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF vide notification dated 03.03.2016 which is available on the website of this Ministry shall also be followed.

(viii) The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.

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.

Where the documents provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for the conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification,2006. The Public Hearing shall be chaired by an Officer, not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and

summarized in a tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the commitments made.

If any part of the data/information submitted by the project proponent is found to be false or misleading at any stage, then SEIAA & SEAC will not be responsible for the expenditure incurred on the project due to the issuance of this ToR or subsequent work carried out by the project proponent for conducting EIA study or for any other activity related to the project.

The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

Item no.200.05: Application for issuance of ToR for manufacturing of 1,00,100 TPA of steel casting, forging & Rolled product by ungrading existing induction furnace of 6.5 TPH capacity with new induction furnace having capacity 10 TPH and addition of one induction furnace of capacity 12 TPH, concast, Laddle refining furnace (LRF) and rolling mill at Village Nasrali, Guru Ki Nagri, Anaj Mandi-Bhadla Road, Nasrali, Near Power Grid, Mandigobindgarh, District Fatehgarh Sahib, Punjab by M/s Kisco Casting Ltd. (SIA/PB/IND/63077/2021).

The proposed project of KISCO CASTINGS (INDIA) LTD. is located at Village-Nasrali, Guru ki Nagri, Anaj- Mandi- Bhadla road, Village – Nasrali, near power grid, Tehsil Mandi gobindgarh, District Fatehgarh Sahib, Punjab. The Industry has already got CTO for manufacturing of Steel Ingots @ 78TPD through Induction Furnace and their casting through annealing furnaces. The existing capacity of Induction Furnace is 6.5 TPH with 3 annealing furnaces of capacities 9TPD, 8PD, 10TPD for casting. They have valid consent to operate for manufacturing of steel Ingot/casting. The project proponent has already got consent to establishment for installation of LRF pot to hold liquid metal vide NOC no. CTE/Mod/FGS/2020/13404347 dated 18.11.2020 and same is valid up-to 16.11.2021. Now project proponent proposes to increase the capacity of unit by upgrading existing Induction Furnace 6TPH to 10TPH and addition of one new Induction Furnace of capacity 12TPH, concast and rolling mill. Total capacity of the project after expansion will be 100,100TPA of Steel Ingots/billets, Steel Casting, Forging& rolled material. The total land area is 12421Sqm. No additional land is required for expansion. The project cost after expansion including existing cost will be Rs. 20.79 Crores.

The project proponent submitted the Form I, Pre-feasibility report and other additional documents on online portal. He has also deposited the requisite fee of Rs. 51,975/- through NEFT no. 105074446093 dated 07.05.2021. The Project Proponent has deposited 25% of the total fee prescribed for the Environmental Clearance being at ToR stage and the rest 75% of the fee i.e. Rs. 1,55,925 /- will be paid at the time of applying for Environmental Clearance.

1. The project proponent during the presentation to the committee be ask to present the applicability of General Condition, suitability of site, land details etc.

1.0 Deliberations during 200th meeting of SEAC held on 07.05.2021

The meeting was attended by the following:

1. Raghav Goel, Director, on behalf project proponent.
2. Sh. Sital Singh, EIA Coordinator, M/s CPTL.

Sr. No.	Description	Details
1.	Name and Location of the project	M/s Kisco Castings (India) Ltd. located at Village- Nasrali, Guru Ki Nagri, Anaj Mandi-Bhadla road, Near power grid, Mandi Gobindgarh District Fatehgarh Sahib Punjab
2.	In case of expansion projects, whether granted EC earlier, if Yes, then provide its details	It is an expansion project. But the existing capacity is less than 30,000 TPA, earlier EC was not required.
3.	Nature of project (Fresh EC/EC for Expansion/New)	Expansion
4.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time.)	(a) B (b) Metallurgical Industries (ferrous & non ferrous) (8), Schedule 3(a) as per EIA notification-2006.
5.	Whether project falls within 5km from the boundary of critically polluted area (Yes/No)	No
6.	Existing production Capacity (TPA)	Steel Ingots/billets, Steel castings, Forging& rolled material- 27,300TPA
7.	Details TOR processing fee submitted (25% of the total project cost)	An amount of Rs. 51,975/- submitted through NEFT no. 105074446093 dated 07.05.2021
8.	Undertaking to reflect that project is neither located near to PLPA area nor fall in the PLPA area	The project site is neither located near to PLPA area nor fall in PLPA area.

<table>
<tr><td>9.</td><td>Classification/Land use pattern as per Master Plan</td><td>The site falls in Medium & heavy Industry zone as per master plan of Mandi Gobindgarh (2010-2031)</td></tr>
<tr><td>10</td><td>Details of CLU certificate</td><td>Classification of Land Use has been obtained vide letter no.- 1153 dated 10.12.2020. The site conforms Industrial Zone.
However, Industry falls under the industrial zone as per master plan of Mandi Gobindgarh (2010-2031)</td></tr>
<tr><td>11</td><td>Details of block as per CGWA guideline (Notified/ Non Notified area) in which project site is located</td><td>The project site falls in Sirhind Block which is non notified area as per CGWA guidelines.</td></tr>
<tr><td>12</td><td colspan="2">Project Area Details:
<table>
<tr><td>S. No.</td><td>Details</td><td>Existing Land</td><td>Proposed Additional Land</td><td>Total land after Expansion</td></tr>
<tr><td>1.</td><td>Plot Area (in sqm)</td><td>12,421</td><td>Nil</td><td>12,421</td></tr>
</table></td></tr>
<tr><td>13</td><td colspan="2">Raw Material requirement as per following format:
<table>
<tr><th>S. No.</th><th>Raw Material name</th><th>Existing (TPA)</th><th>Proposed (TPA)</th><th>After Expansion (TPA)</th></tr>
<tr><td>1.</td><td>MS Scrap, CI, Sponge Iron, Ferro Alloys</td><td>28,875</td><td>81,235</td><td>1,10,110</td></tr>
</table></td></tr>
<tr><td>14</td><td colspan="2">Production Capacity as per following format :
<table>
<tr><th>S. No.</th><th>Product name</th><th>Existing (TPA)</th><th>Proposed (TPA)</th><th>After Expansion (TPA)</th></tr>
<tr><td>1.</td><td>Steel Ingots/billets, Steel castings, Forging& rolled material</td><td>27,300 (Steel Ingots/billets , Steel castings)</td><td>72,800</td><td>100,100</td></tr>
</table></td></tr>
</table>

15 Details of major productive machinery/plant

S. No.	Particulars	Existing	Proposed	After Expansion
1.	Induction Furnace, rolling mill	1X6.5TPH (Upgraded),	1X10 TPH, 1X12 TPH	1X10 TPH, 1X12 TPH
2.	Rolling mill	Nil	01 NO.	01 No.
3.	Laddle Refining Furnace(LRF)	Nil	01 No.	01 No.
4.	Concast	Nil	01 No.	01 No.

16 Details of Effluent

Sr. No.	Details	Existing Quantity (KLD)	Expected after expansion (KLD)	Details of existing & proposed Effluent Control Device
i)	Industrial Effluent	Nil	Nil	---
ii)	Domestic Effluent	8.06	9	Will be treated in STP of 15 KLD capacity. Treated water will be reused in plantation.

17 Details of Emissions (After expansion)

Sr. No.	Source	Capacity (TPH)	Chimney Height (m)	Details of existing & proposed Air Pollution Control Device
i)	Induction Furnace	1X10 TPH, 1X12 TPH,	30	Side Suction Hood, Spark Arrestor, Bag House, ID Fan(Offline cleaning pulsejet bag filter)

18	Status of Proposed ToRs	Standard TORs submitted.

The Project Proponent has submitted an undertaking that no construction activity has been done w.r.t. the proposed expansion.

SEAC was satisfied with the presentation and took a copy of the same on record.

After detailed deliberations, it was decided to categorize the project under Activity 3(a); B-1 with public consultation as required for the project. The Committee approved the Terms of Reference to M/s Kisco Casting Ltd for manufacturing of 1,00,100 TPA of steel casting, forging & Rolled product by upgrading existing induction furnace of 6.5 TPH capacity with new

induction furnace having capacity 10 TPH and addition of one induction furnace of capacity 12 TPH, concast, Laddle refining furnace (LRF) and rolling mill at Village Nasrali, Guru Ki Nagri, Anaj Mandi-Bhadla Road, Nasrali, Near Power Grid, Mandigobindgarh, District Fatehgarh Sahib, Punjab for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the following TORs:

STANDARD TERMS OF REFERENCE

1) Executive Summary

Report in about 8-10 pages incorporating the following:

(i) Project name and location (Village, Distt., State, Industrial Estate (if applicable)

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

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

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

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

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

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

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

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

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

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

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

(xiii) CSR/CER plan with proposed expenditure.

(xiv) Occupational Health Measures

(xv) Post Project monitoring plan

(xvi) Synopsis of the project (as available on web site i.e. www.pbdecc.gov.in)

2) Introduction

(i) Details of the EIA Consultant including NABET accreditation

(ii) Information about the project proponent

(iii) Importance and benefits of the project

3) Project Description

(i) Cost of project and time of completion.

(ii) Products with capacities for the proposed project.

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

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

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

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

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

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

(ix) Hazard identification and details of proposed safety systems.

(x) In case of Expansion/modernization proposals:

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

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

4) Site Details

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

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

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

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

(v) Google map-Earth downloaded of the project site

(vi) Layout maps indicating existing unit as well as proposed unit indicating storage area of raw material, finished products, greenbelt area with marking

of tree, Location of STP/ETP, Solid waste storage area, Parking space, Firefighting equipment layout, First aid room, Location of Tube wells, DG Sets & Transformers and any other utilities

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6) Environmental Status

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

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

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

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

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

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

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

(viii) Soil Characteristic as per CPCB guidelines.

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

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

(xi) Socio-economic status of the study area.

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

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

(ii) Water Quality modelling.

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

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

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

(vi) Measures for fugitive emission control

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

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

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

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

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

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

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

8) Occupational health

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

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

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

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

9) Corporate Environment Policy

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

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

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

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

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

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

(i) To address the Public Hearing issues, 2.5% of the total project cost of (Rs.___crores), amounting to Rs.___crores, shall be earmarked by the project proponent, towards Enterprise Social Commitment (ESC). Distinct ESC projects shall be carved out based on the local public hearing issues. Project estimate shall be prepared based on PWD schedule of rates for each distinct Item and schedule for time-bound action plan shall be prepared. These ESC projects as indicated by the project proponent shall be implemented along with the main project. Implementation of such program shall be ensured by constituting a Committee comprising of the project proponent, representatives of village Panchayat & District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office. No free distribution/donations and or free camps shall be included in the above ESC budget

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

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

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

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

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

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

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

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

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

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

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

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

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

C. ADDITIONAL SPECIFIC TORS DECIDED DURING MEETING OF SEAC

1. Public consultation is required for the projects as not located in notified industrial parks/estates.
2. 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)
3. 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.
4. 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

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

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

6. Compliance of the siting criteria, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.

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

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

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

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

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

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

10. 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.

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

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

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

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

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

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

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

18. 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.

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

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

21. Examine and submit the proposal for: -

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

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

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

22. Air Pollution Control Arrangement details shall be provided as below:

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

			Sheet to furnish Details)				
						Per Unit	Per day

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

24. 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

The following general points shall be noted:

(i) The EIA document shall be printed on both sides, as for as possible.

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

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

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

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

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

(vii) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MOEF vide notification dated 03.03.2016 which is available on the website of this Ministry shall also be followed.

(viii) The consultants involved in the preparation of EIA-EMP report after accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA-EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. Name of the

Consultant and the Accreditation details shall be posted on the EIA-EMP Report as well as on the cover of the Hard Copy of the Presentation material for EC presentation.

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.

Where the documents provided are in a language other than English, an English translation shall be provided. The draft EIA-EMP report shall be submitted to the State Pollution Control Board of the concerned State for the conduct of Public Hearing. The SPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification,2006. The Public Hearing shall be chaired by an Officer, not below the rank of Additional District Magistrate. The issues raised in the Public Hearing and during the consultation process and the commitments made by the project proponent on the same shall be included separately in EIA-EMP Report in a separate chapter and summarized in a tabular chart with financial budget (capital and revenue) along with time-schedule of implementation for complying with the commitments made.

If any part of the data/information submitted by the project proponent is found to be false or misleading at any stage, then SEIAA & SEAC will not be responsible for the expenditure incurred on the project due to the issuance of this ToR or subsequent work carried out by the project proponent for conducting EIA study or for any other activity related to the project.

The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

Item NO. 200.06: Application for obtaining environmental clearance under EIA notification dated 14.09.2006 for the development of commercial project namely "Judicial Court Complex and District Administrative Complex", District Tarn Taran, Punjab by Executive Engineer, Construction Division no. 1, PWD (B& R), Court Road, Amritsar. (New Proposal No. SIA/PB/MIS/EC/ 202330/2021).

The case was a violation case and was issued additional specific ToR by SEIAA vide letter no. 3189 dated 21.10.2020, by adopting procedure as enumerated by O.M dated 14.03.2017 and 08.03.2018.

Now, the Project Proponent has applied for obtaining Environmental Clearance for the development of commercial project namely "Judicial Court Complex and District Administrative Complex", District Tarn Taran, Punjab by Executive Engineer, Construction Division no. 1, PWD (B& R), Court Road, Amritsar. The Project Proponent has submitted compliance of the Additional Specific ToR and other relevant documents on Parivesh Portal. The Project Proponent has deposited Rs. 1,17,180/- vide UTR no. BKL210405760187, dated 05.04.2021.

1.0 Deliberations during 200th meeting of SEAC held on 07.05.2021

The meeting was attended by the following:

1. Sh. Sital Singh, EIA Coordinator, M/s CPTL, Mohali.

SEAC observed that project proponent i.e. Executive Engineer, Construction Division no. 1, PWD (B& R), Court Road, Amritsar failed to appear before the Committee for presentation. However, SEAC allowed the Environmental Consultant of the Project Proponent to present salient features of the project which he presented as under:

S.No.	Item	Details
1.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	8 (a)

2.	If the project involves diversion of forest land. If yes, a) Extent of the forest land. b) Status of the forest clearance.	No
3.	a) 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. b) Is the project covered under PLPA, 1900, if yes then Status of the NOC w.r.t PLPA,1900.	No
4.	If the project falls within 10 km of ecosensitive area/ National park/Wild Life Sanctuary. If yes, a) Name of ecosensitive area/ National park/Wild Life Sanctuary and distance from the project site. b) Status of clearance from National Board for Wild Life (NBWL).	No N.A. N.A.
5.	Classification/Land use pattern as per Master Plan	Within Municipal limits of Tan Taran, Mixed land use (as per Master Plan)
6.	Cost of the project	About Rs. 37 Cr.

<table>
<tr><td>7.</td><td>Total Plot area, Built up Area and Green area</td><td>
<table>
<tr><td>Land</td><td>55320 m^2 (16.54 acres)</td></tr>
<tr><td>Built up area</td><td>Total built-up area = 58590 m^2
• Court complex (basement + 4 floors) = 22048 m^2
• District administrative complex (basement + 4 floors) = 19400 m^2
• Lawyer chambers (ground + 4 floors) = 6150 m^2
• Judge's residences = 2553 m^2</td></tr>
<tr><td>Green area</td><td>24960 m2 (45.1%)</td></tr>
</table>
</td></tr>
<tr><td>8.</td><td>Population (when fully operational)</td><td>• Residential = 100
• Institutional occupants = 3000
• Visitors = 4000</td></tr>
<tr><td>9.</td><td>Water Requirements & source in Construction Phase</td><td>Construction: 10 kLD, STP with in project
Domestic: 225 kLD, ground water</td></tr>
<tr><td>10.</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 colspan="3">Reuse water</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>225</td><td>225</td><td>NIL</td><td>135</td><td></td></tr>
<tr><td>2</td><td>Winter</td><td>225</td><td>225</td><td>NIL</td><td>75</td><td></td></tr>
<tr><td>3</td><td>Rainy</td><td>225</td><td>225</td><td>NIL</td><td>50</td><td></td></tr>
</table>
</td></tr>
<tr><td>11.</td><td>Source of Water</td><td>Ground water</td></tr>
<tr><td>12.</td><td>Treatment & Disposal arrangements of waste water in Construction Phase</td><td>STP installed at Site
• Reuse for watering of green area
• Disposal into Patti drain</td></tr>
<tr><td>13.</td><td>Disposal Arrangement of Waste water in Operation Phase</td><td>Total sewage = 180 KLD
STP capacity = 250 KLD
<table>
<tr><td>S. No.</td><td>Season</td><td>For Flushing purposes (kLD)</td><td>Green Area sqm (kLD)</td><td>Patti drain (kLD)</td></tr>
<tr><td>1.</td><td>Summer</td><td>NIL</td><td>135</td><td>45</td></tr>
<tr><td>2.</td><td>Winter</td><td>NIL</td><td>75</td><td>105</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>3.</td><td>Rainy</td><td>NIL</td><td>50</td><td>130</td></tr>
</table>
</td></tr>
<tr><td>14.</td><td>Rain water recharging detail</td><td>Number of recharge structures = 8
Annual recharge potential = 21300 kL</td></tr>
<tr><td>15.</td><td>Solid waste generation and its disposal</td><td>• 300 kg/day
• The solid wastes will be appropriately segregated (at source) into recyclable, bio-degradable Components, and non- biodegradable.
• Disposal of non-recyclable fraction through MC</td></tr>
<tr><td>16.</td><td>Hazardous Waste & EWaste</td><td>• Used oil from DG set (Cat. 5.1) = 300 kg/year
• Used oil will be sold to registered recyclers
• E-waste will be disposed off as per the E-waste (Management) Amendment Rules, 2018.</td></tr>
<tr><td>17.</td><td>Energy Requirements & Saving</td><td>• 1500 kW to be sourced from PSPCL.
• DG set –125 kVA
<table>
<tr><th></th><th>Measure</th><th>Energy saving potential*</th></tr>
<tr><td>1.</td><td>Solar based common lighting</td><td>2%</td></tr>
<tr><td>2.</td><td>Roof-top solar (PV) power (325 kWp potential)</td><td>6%</td></tr>
<tr><td>3.</td><td>Use of LED lighting</td><td>2%</td></tr>
<tr><td>4.</td><td>Energy efficiency in receiving/distribution</td><td>1%</td></tr>
<tr><td>5.</td><td>High efficiency motors/transformers</td><td>0.5%</td></tr>
<tr><td>6.</td><td>Miscellaneous architectural features</td><td>0.5%</td></tr>
<tr><td></td><td>Total</td><td>12%</td></tr>
</table>
</td></tr>
<tr><td>18.</td><td>Environment Management Plan along with Budgetary break up phase wise and responsibility to implement</td><td>Executive Engineer, Construction Division No. 1, PWD (B&R), Amritsar, or any other officer authorized by the competent authority.
<table>
<tr><td>Description</td><td>Capital Cost (Rs)</td><td>Recurring Cost – annual (Rs)</td></tr>
<tr><td>Construction</td><td>31 lacs</td><td>5 lacs</td></tr>
<tr><td>Operation</td><td>331 lacs</td><td>42 lacs</td></tr>
</table>
</td></tr>
<tr><td>19.</td><td>on-site construction, environmental remediation plan</td><td>On-site construction, environmental remediation plan is proposed as under;
<table>
<tr><th></th><th>Proposed activity</th><th>Amount (₹)</th></tr>
<tr><td>1.</td><td>Plantation of trees and their maintenance along the</td><td>6,00,000.00</td></tr>
</table>
</td></tr>
</table>

				national highway on at least 1 km of both sides of the project	
			2.	Storm water management system of surrounding villages	10,00,000.00
			3.	Provision of *Organic Waste Converter* for biodegradable solid waste management in Villages Rasulpur and Chutala	10,00,000.00
				Total	**26,00,000.00**

SEAC raised following observations to the Environmental Consultant of the Project Proponent:

Sr. No.	Observation	Reply
1.	Methodology adopted to estimate the Environmental damage of Rs. 26 lakhs	The Environmental Consultant of the Project Proponent sought time to submit reply in this regard.
2.	The activities proposed in the Environmental Remediation Plan are general in nature.	The Environmental Consultant of the Project Proponent sought time to submit the revised Environmental Remediation Plan.
3.	The KML file uploaded on the Portal indicates that no green area has been developed. The Project Proponent is required to submit proposal for development of the green area.	The Environmental Consultant of the Project Proponent sought time to submit reply in this regard.

SEAC decided to defer the case till the next meeting and be placed for appraisal only after the reply from the Project Proponent is received.

Item No. 200.07: Application for obtaining extension in the Environmental clearance granted under EIA notification dated 14.09.2006 to M/s Surya Industries for establishment of cement grinding unit of capacity 150 TPD at Sadiq Road, Faridkot, Distt Faridkot.(Proposal No. SIA/PB/IND/197566/2021).

The project proponent was granted Environmental Clearance under EIA notification for establishment of cement grinding unit of capacity 150 TPD at Sadiq Road, Faridkot, Distt Faridkot vide no. 1942 dated 11.05.2013. In light of O.M dated 12.04.2016 the EC of the project was valid upto 10.05.2020. Further vide OM dated 18.01.2021, the MoEF has mandated that the period from the 1 April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of prior Environmental Clearance granted under the provisions of this notification in view of outbreak of Corona Virus and subsequent lockdown (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid. Thus, the EC of project proponent can be treated to be valid upto 10.05.2021.

The project proponent has applied for extension in the said Environmental Clearance before the expiry of the EC and as per the EIA notification dated 14.09.2006 the validity can be extended for 3 years i.e. upto 10.05.2024. The project proponent submitted the due to certain reasons no construction could be carried out at the site till date. The project proponent has deposited Rs. 13,860/- through NEFT as processing fee for the application extension of EC.

1.0 Deliberations during 198th meeting of SEAC held on 05.04.2021

The meeting was attended by the following:

1. Sh. Bharat Bhusan, Partner, on behalf of Project Proponent.
2. Sh. Sital Singh, EIA Coordinator, M/s CPTL E-126,IA, Phase-3, SAS Nagar.

SEAC observed that the project proponent has applied for extension in the Environmental Clearance granted for establishment of cement grinding unit of capacity 150 TPD at Sadiq Road, Faridkot, Distt Faridkot vide no. 1942 dated 11.05.2013.

As per the provisions of EIA notification 14.09.2006 and MoEF OM dated 18.01.2021, SEAC decided to recommend SEIAA to extend the Environment Clearance granted vide letter no. 1942 dated 11.05.2013 for establishment of cement grinding unit of capacity 150 TPD at Sadiq Road, Faridkot, Distt Faridkot, upto 10.05.2024.

2.0 Deliberations during 180th meeting of SEIAA held on 26.04.2021.

The case was considered by SEIAA in its 180th meeting held on 26.04.2021 through Video Conference, which was attended by Sh. Bharat Bhushan, Partner, M/s Surya Industries and Sh. Sital Singh, Environmental Consultant on behalf of the promoter company.

SEIAA observed that project proponent had not started the construction at site even though Environmental Clearance was granted almost 8 years back in May, 2013. Project Proponent has also not submitted any cogent and convincing reasons for such a long delay in commencing even basic start up activities (including construction) other than a general statement that this was because of market and financial constraints. Further, no deliberation appears to have been made by SEAC as to whether the Project merits grant of extension or the Project proponent should apply for a Fresh Environmental Clearance since the baseline monitoring data collected by the project proponent is more than 7-8 years old.

SEIAA decided to remand the case to SEAC for deliberating the matter on the aforesaid issues and sending it's detailed recommendations in the matter.

3.0 Deliberations during 200th meeting of SEAC held on 07.05.2021

The meeting was attended by the following:

1. Sh. Sital Singh, EIA Coordinator, M/s CPTL on behalf of Project Proponent.

Sh. Sital Singh, EIA Coordinator of the Project Proponent informed the Committee that the Project Proponent was unable to appear before the meeting due to being infected with Covid-19. He had been authorized by the Project Proponent to appear before the Committee and to present the case in his absence.

After accepting the request of the EIA Coordinator, SEAC raised following observations, which he replied as under:

Sr. No.	Observation	Reply
1.	The Project Proponent is required to submit justification for not starting the construction of the project.	The Project Proponent submitted that when the project was conceived in 2012, there was significant demand of cement manufactured by the small grinding units due to which small scale grinding unit was financial sustainable at that time. However, during the course of obtaining statutory clearances over a period of about one year, the demand of cement manufactured by small grinding unit became negligible. Further, the funds could not be tied up at that time to start the construction work of the unit. Now, as per present scenario, there are positive trends of the demand of cement manufactured by small grinding units. Also, funds required for installation of unit have been tied up and it is expected that the unit would be installed and commissioned within 2-3 years.
2.	The Project Proponent is required to submit PERT Chart for completion of the project.	The Project Proponent submitted PERT chart to complete the project by Feb. 2024.
3.	The baseline monitoring data collected by the project proponent is 7-8 years old. Why should this data be considered for considering the case for extension of Environment Clearance.	The Project Proponent submitted that study of the area was again carried out on 2nd and 3rd May, 2021 and comparison had been drawn between baseline data and the recent study, which is given in the following Tables.

BASELINE DATA COMPARISON

A. AMBIENT AIR QUALITY

Name of the Station	Period	Range/ Average/Value	PM_{10} ($\mu g/m^3$)	PM2.5 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NOx ($\mu g/m^3$)	CO (mg/m^3)
Project Site	Dec., 2010-Feb., 2011	Range	82-88	36-40	2.7-2.8	12-13	0.4-0.5
		Average	86	38	2.7	12	0.4
	2nd May,2021-3rd May, 2021	Value	89.5	42.1	3.1	13.9	0.58
CPCB Standard			100	60	80	80	4.0

B. GROUND WATER QUALITY

Characteristic	Period (Dec., 210- Feb., 2011)	2nd May, 2021
	Project Site (Tube well)	
Colour, Hazen, units,	<1	<2
Odour	Unobjectionable	Unobjectionable
Taste	Agreeable	Agreeable
Turbidity, NTU	<1	<2
pH	7.3	7.3
Total Hardness (as $CaCO_3$) mg/I.	386	392
Total Dissolved Silica, mg/I,	12.2	12.8
Suspended Solids	--	--
TDS , mg/I	913	918
Iron (as Fe), mg/I,	0.2	0.2
Chloride (as CI), mg/I,	42	44.2

Magnesium as mg/I,	18	22.2
Sulphate (as SO_4), mg/I,	215	216.2
Nitrate (as NO_3), mg/I	0.01	0.01
Sodium (as Na) mg/I	31	33.8
Cadmium(as Cd), mg/I	BDL	BDL
Arsenic (as As), mg/I	BDL	BDL
Cyanide (as CN), mg/I	BDL	BDL
Lead (as Pb), mg/I	BDL	BDL
Chromium (as Cr), mg/I	BDL	BDL
Mineral Oil mg/I	BDL	BDL
Ecoli/Total Coliforms	Absent	Absent

C. AMBIENT NOISE LEVELS

SR. NO.	SITE	(Dec., 2010- Feb., 2011)	2nd May, 2021
1.	**Project Site**	**48 dB (A)**	**46 dB (A)**

After comparing the old data with the current data, no significant change observed in the baseline data.

SEAC was satisfied with the reply given by the Environmental Consultant of the Project Proponent and took the reply on record.

SEAC observed that the case can be considered for extension of the Environment Clearance in light of the reply given by the Project Proponent.

After detailed deliberations, SEAC decided to recommend the case to SEIAA to extend the Environment Clearance granted vide letter no. 1942 dated 11.05.2013 for establishment of cement grinding unit of capacity 150 TPD at Sadiq Road, Faridkot, Distt Faridkot, upto 10.05.2024.

Item no.200.08: Application for issuance of ToR for expansion of the Township project namely "TDI City in Sector 110-111, SAS Nagar, by M/s Taneja Developers & Infrastructure Ltd. (Proposal No. SIA/PB/MIS/60863/2021).

The project was granted Environment Clearance for the development and construction of a Township Project namely "TDI City in Sector 110-111, SAS Nagar vide letter no. 1208 dated 06.08.2014. The said Environment Clearance was granted for development of project in an area of 156.183 acres of land having total built up area of about 1,40,000 Sqm consisting of 1284 no. of plots, 215 no. of SCO, 9 booths, EWS, Dispensary, School & Public building in Sector 110-111, SAS Nagar.

Now, the Project Proponent has applied for issuance of ToR for expansion of the Environment Clearance with increase in the total plot area from 156.183 acres to 161.31 acres. The Project Proponent has deposited Rs. 70,000/- through NEFT No. N127210588827891 dated 07.05.2021.

1.0 Deliberations during 200th meeting of SEAC held on 07.05.2021

The case was considered by SEAC in its 200th meeting held on 07.05.2021 and was attended by the following:

1. Mr. Mandeep Sharma, Senior Manager and Sh. Deepak Gupta, Environmental Advisor, on behalf of Project Proponent.
2. Sh. Sital Singh, EIA Coordinator, M/s CPTL, Mohali.

SEAC allowed the Project Proponent to submit the salient features of the project which he presented as under:

Sr.no.	Item	Details
1.	Name and Location of the project	"TDI City" located at Sector-110-111, SAS Nagar.
2.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	8 B

3.	Whether the project is in critical polluted area or not.	None
4.	If the project involves diversion of forest land. If yes, a) Extent of the forest land. b) Status of the forest clearance.	No
5.	a) 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. b) Is the project covered under PLPA, 1900, if yes then Status of the NOC w.r.t PLPA,1900.	No
6.	If the project falls within 10 km of ecosensitive area/ National park/Wild Life Sanctuary. If yes, a) Name of ecosensitive area/ National park/Wild Life Sanctuary and distance from the project site. b) Status of clearance from National Board for Wild Life (NBWL).	No No No

<table>
<tr><td>7.</td><td>Classification/Land use pattern as per Master Plan</td><td>Township</td></tr>
<tr><td>8.</td><td>Cost of the project</td><td>400 cr</td></tr>
<tr><td>9.</td><td>Total Plot area, Built up Area and Green area</td><td>
<table>
<tr><td colspan="4">"Table A"</td></tr>
<tr><td></td><td>OLD</td><td>NEW</td><td>TOTAL</td></tr>
<tr><td>Land</td><td>156.183 Acres</td><td>5.127 Acres</td><td>161.31 Acres</td></tr>
</table>
</td></tr>
<tr><td>10.</td><td>Population (when fully operational)</td><td>25063</td></tr>
<tr><td>11.</td><td>Water Requirements & source in Construction Phase</td><td>5-10 KLD
met by STP Kharar</td></tr>
<tr><td>12.</td><td>Source of Water</td><td>•Treated waste water will be used during construction stage of the project. (From existing STP of TDI township))</td></tr>
<tr><td>13.</td><td>Treatment & Disposal arrangements of waste water in Construction Phase</td><td>Septic Tank of capacity 10 KLD
Sewer</td></tr>
</table>

SEAC asked the Project Proponent to submit complete breakup of the construction w.r.t. land area/ built up area such as plots, SCO, booths, EWS, dispensary, school, public building etc. required to be carried out in the earlier Environment Clearance and in the proposed expansion. The Project Proponent sought time to submit reply in this regard.

After detailed deliberations, SEAC decided to defer the case and consider it in the next meeting only when the reply from the Project Proponent is received.

Item No. 200.09: Application for obtaining extension in the Environmental clearance granted under EIA notification dated 14.09.2006 for development of Township Project namely "IREO City" in the revenue estate of village Dakha, Eisewal, Devatwal, Gahour & Birmi, Tehsil Mullanpur, District Ludhiana. (Proposal No. SIA/PB/MIS/204012/2021).

The project proponent was granted Environmental Clearance under EIA notification for development of Township Project namely "IREO City" in the revenue estate of village Dakha, Eisewal, Devatwal, Gahour & Birmi, Tehsil Mullanpur, District Ludhiana vide no. SEIAA/2013/2763 dated 18.09.2013. The Environmental Clearance was granted 484.27 acres and builtup area 16,89,360.37 Sqm. Further vide OM dated 18.01.2021, the MoEF has mandated that the period from the 1 April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of prior Environmental Clearance granted under the provisions of this notification in view of outbreak of Corona Virus and subsequent lockdown (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid. Thus, the EC of project proponent can be treated to be valid upto 17.09.2021.

The project proponent has applied for extension in the said Environmental Clearance before the expiry of the EC and as per the EIA notification dated 14.09.2006 the validity can be extended for 3 years i.e. upto 17.09.2024. The project proponent submitted that the project was to developed for an area of 484.27 acres out of which 222 acres has been completed. The reason for delay in completing the development activities is as follows:

- Time required for development.
- Market demand for the project.
- Huge cost involved in the development.

The project proponent has deposited Rs. 16,89,361/- through NEFT no. HDFCR52021050591094454 on 05.05.2021 as processing fee for the application extension of EC.

1.0 Deliberations during 200th meeting of SEAC held on 07.05.2021

The meeting was attended by the following:

1. Julie Jha, Manager (Approvals), on behalf of Project Proponent.
2. Sh. Ankur Aggarwal, EIA Coordinator, M/s Vardan Environet, Consultant.

Before allowing the Project Proponent to present the salient features of the project, SEAC raised following observations to the Project Proponent.

S.No.	Observations	Reply
1.	The Project Proponent is required to submit compliance of the conditions of the earlier granted Environment Clearance.	The Project Proponent sought time to submit reply in this regard.
2.	The Project Proponent is required to submit PERT CHART to complete the project in a time bound manner.	The Project Proponent sought time to submit reply in this regard.

SEAC decided to defer the matter till the next meeting and case be considered only after submission of satisfactory reply from the Project Proponent.