

Proceedings of 172nd meeting of State Environment Impact Assessment Authority (SEIAA) held on 12.10.2020 at 10:30 AM in the Conference Hall-2, MGSIPA Complex, Sector- 26, Chandigarh.

In the meeting, the following members were present: -

- 1) Sh. Kuldip Singh, IFS (Retd.),
Chairman, SEIAA
- 2) Sh. Charandeep Singh, PCS
Member Secretary, SEIAA
- 3) Dr. Sunil Mittal,
Member, SEIAA

Item No. 01: Confirmation of the proceedings of 170th and 171st meeting of State Environment Impact Assessment Authority (SEIAA) held on 16.09.2020 and 21.09.2020, respectively.

SEIAA was apprised that the proceedings of 170th and 171st meeting of State Environment Impact Assessment Authority (SEIAA) held on 16.09.2020 and 21.09.2020, respectively, have been prepared and were circulated through E-mail on 20.09.2020 and 01.10.2020. As such, SEIAA confirmed the said proceedings.

Item No. 02: Action taken on the proceedings of 170th and 171st meeting of State Environment Impact Assessment Authority (SEIAA) held on 16.09.2020 and 21.09.2020, respectively.

SEIAA was apprised that action on the proceedings of 170th and 171st meeting of State Environment Impact Assessment Authority (SEIAA) held on 16.09.2020 and 21.09.2020, respectively is being taken and will be placed in the next meeting. SEIAA noted the same and asked to place the action taken report on the proceedings in the next meeting of SEIAA.

Item No. 172.01 Application for issuance of TORs for setting up of new Pharmaceutical Park (Bulk drugs & APIs and Formulations) at Village Wazirabad, Distt- Fatehgarh Sahib, Punjab by M/s Punjab Small Industries & Export Corporation Ltd (Proposal No. SIA/PB/NCP/56008/2020).

Facts of the case are as under:

1.0 Present case:

The project proponent has applied for issuance of TORs for setting up of new Pharmaceutical Park for manufacturing Bulk drugs & APIs and formulations with a capacity of 7,30,000 TPA at Village Wazirabad, Distt- Fatehgarh Sahib, Punjab by M/s Punjab Small Industries & Export Corporation Ltd. Project is covered under Activity 7(c) & Category 'B1' as per EIA notification-2006.

The project proponent submitted the Form I (Appendix I), Pre-feasibility report, and other additional documents on the online portal. They have submitted that it is a case of Terms of reference and processing fee will be submitted before the SEIAA meeting as approval has been sought from the competent authority and requested to consider the case being a Govt. Department.

The application was scrutinized & Essential Details were sought dated 14.09.2020, to which the project proponent replied dated 23.09.2020 and brief details are as under:

Sr. No.	Detail of the Document	Reply to EDS.
1.	It has been observed that the hard copy of form 1 submitted doesn't match with the soft copy online on Parivesh Portal (Formats of both the forms are different)	Checked the content and submitted Updated Form-1
2.	An undertaking to be submitted with the effect that none of the industry (Anchor unit or any other unit under small plots) proposed in Pharmaceutical park will fall under Category A of the Schedule appended to the EIA Notification.	All categories of API and Bulk Drug etc. Units covered under 5(f) of EIA notification 2006 will be allowed.

3.	<p>What will be the average water consumption (m³/day) and average fuel consumption (TPD) of the proposed units in Pharmaceutical park: a. Anchor unit b. Other units to set up at small plots in pharmaceutical park</p>	<p>The proposed Average consumption of water & fuel is given as below</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Particulars</th> <th>Water (m³/d)</th> <th>Fuel (TPD)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Anchor unit</td> <td>1.9 MLD</td> <td>100</td> </tr> <tr> <td>B</td> <td>other plots (51 no)</td> <td>1.5 MLD</td> <td>120</td> </tr> <tr> <td></td> <td>Total</td> <td>3.4 MLD</td> <td>220</td> </tr> </tbody> </table>	S.No	Particulars	Water (m ³ /d)	Fuel (TPD)	A	Anchor unit	1.9 MLD	100	B	other plots (51 no)	1.5 MLD	120		Total	3.4 MLD	220
S.No	Particulars	Water (m ³ /d)	Fuel (TPD)															
A	Anchor unit	1.9 MLD	100															
B	other plots (51 no)	1.5 MLD	120															
	Total	3.4 MLD	220															
4.	<p>Whether any of the industry (Anchor unit or any other unit under small plots) in proposed Pharmaceutical park will fall under MAH (Max Accident Hazard) unit as per the Management, Storage and Import of Hazardous rules,1989</p>	<p>All categories of API and Bulk Drug etc. Units covered under 5(f) of EIA notification 2006 will be allowed.</p>																
5.	<p>Please provide the distance from the nearest protected area notified under wildlife (Protection) Act, 1972 or Eco-sensitive area as notified under EPA Act, 1986 on coloredtopo sheet (A3/A2) with proper scale so as to decide as to whether General Condition is applicable or not.</p>	<p>No protected area -notified under the Wildlife (Protection) Act, 1972 or Eco-sensitive area as notified under EPA Act, 1986/NP/WLS is present within 10 km radius of the project site. Whereas The BadsonBir Wildlife sanctuary is situated at a distance of 13.07 km (SW) form the project site and the distance & direction is marked on SOI enclosed Toposheet</p>																
6.	<p>In form 1, the following are the observations: a. At point no. 6, page no. 3, category of project has been mentioned as B2, whereas, it is an B1 project b. At point no. 4.2, Tentative Qty of MSW</p>	<p>Necessary corrections have been incorporated in Updated Form-1 and same was submitted. a. At point no. 6, page no. 3, category is mentioned as B1 project whereas the justification is given for considering as B2 b. At point no. 4.2, Tentative Qty of MSW generation is Approx 600kg/day (i.e:18 MT/month) c. At point no. 4.3, Tentative Qty of Hazardous waste generation is Approx 6MT/day (i.e:180MT/month) d. At point no. 4.6, Tentative Qty of STP Sludge is Approx 300kg/day (i.e: 9(MT/month)</p>																

	<p>generation (MT/month) not mentioned</p> <p>c. At point no. 4.3, Tentative Qty of Hazardous waste generation (MT/month) not mentioned & has been marked "No" instead of "Yes"</p> <p>d. At point no. 4.6, Tentative Qty of STP Sludge (MT/month) not mentioned & has been marked "No" instead of "Yes"</p> <p>e. Under heading eco sensitivity (within 15km radius), at point no. 2& 3, the distance of Bir Bhadson wildlife sanctuary mentioned as 13 km has been taken from GoogleEarth which is not authenticated therefore, Please provide the distance on Toposheet with proper scale</p>	<p>e. Under the heading eco-sensitivity (within 15km radius), at point no. 2& 3, the distance of Bir Bhadson wildlife sanctuary mentioned is 13.07 km (SW) from the project site.</p> <p>The distance & direction is marked on SOI Toposheet is enclosed</p>																												
<p>7.</p>	<p>In PFR, following points needs to be clarified:</p> <p>a. At page no. 27 & 42, it has been mentioned that 1no. Anchor unit and 51no. Plots for small and medium scale industries, residential area, office and commercial establishments are proposed to be developed. Please provide the details of residential areas, offices & commercial establishments to be developed on around 10 Acres of land</p>	<p>a. As suggested updated the details in PFR and corrected the typographical error of residential area in Page 27 & 42. Whereas in page section 6.2 it is clearly mentioned that no residential area is proposed in the project</p> <p>The area is provided for industrial utilities for banking & other basic needs of the industrial usage only. Not to establish commercial buildings which BUA is > 20000 sq.m.</p> <p>The area breakup is as below</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Landuse</th> <th>Area(in Acres)</th> <th>% age</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Industrial plots</td> <td>67.93</td> <td>52.13</td> </tr> <tr> <td>2</td> <td>Commercial use</td> <td>6.00</td> <td>4.60</td> </tr> <tr> <td>3</td> <td>Public building</td> <td>4.00</td> <td>3.07</td> </tr> <tr> <td>4</td> <td>Elec. Substation</td> <td>8.00</td> <td>6.14</td> </tr> <tr> <td>5</td> <td>Water works/ WTP</td> <td>2.63</td> <td>2.02</td> </tr> <tr> <td>6</td> <td>CETP/STP</td> <td>3.65</td> <td>2.80</td> </tr> </tbody> </table>	S.No	Landuse	Area(in Acres)	% age	1	Industrial plots	67.93	52.13	2	Commercial use	6.00	4.60	3	Public building	4.00	3.07	4	Elec. Substation	8.00	6.14	5	Water works/ WTP	2.63	2.02	6	CETP/STP	3.65	2.80
S.No	Landuse	Area(in Acres)	% age																											
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	(Proposed/permissible Built up area of buildings, FAR etc. Further, specify whether the build up area of above establishments will be less then or more then 20,000 sqm	7	Green/Open space	20.06	15.39
		8	common waste material	1.00	0.77
		9	road/rasta	17.05	13.08
		10	Total	130.32	100.00
	b.At page no. 47, it has been mentioned that 40 TPD of solid waste from fuel (Rice Husk/Coal, etc.) will be used for landfilling in low lying areas. Either submit proposal for dust disposal along with agreement from competent authority to handle huge amount of daily dust generation or provide details of low lying areas where the dust will be disposed off along with permission from competent authority	<p>Submitted The project layout with visible facilities</p> <p>c. At page 47 the details are given as separate as below</p> <ul style="list-style-type: none"> 40 MT/Day of Solid waste from fuel (Rice Husk/Coal etc.) burning in individual units will be sent to Authorized Disposal Sites for landfill as per the SPCB Guidelines <p>However, necessary permission will be obtained by PSIEC/individual units well before operation of the units for proper disposal of fuel ash/ dust as per SPCB/CPCB guidelines.</p>			
8.	Colored copy of layout plan mentioning various details like proposed plot area, built up area, FAR, colored copy of topo sheet, contour plan on A1/A2 sheet	The coloured layout map showing plot area, BUA etc was submitted			

9.	Please clarify how 33% of total industrial park area will be ear marked for green belt development to meet MoEF&CC guidelines whereas land use of green area/open space is defined as 15.39%	<p>The project is committed to provide the 33% of the Industrial area for Greenbelt coverage as per MOEFCC guidelines (details are given in PFR sub para 5.3</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Total Area(in Acres)</th> </tr> </thead> <tbody> <tr> <td>Area under 15 mt and 10 mt wide Green Buffer and other Green Area</td> <td>20.06</td> </tr> <tr> <td>As per EIA Guidelines 33% of Individual Plot Area under Green /Open</td> <td>22.42</td> </tr> <tr> <td>Minimum Green Area/Open Space under Sub-station Area</td> <td>0.53</td> </tr> <tr> <td>Total Area under Green</td> <td>43.01 Acres (33%)</td> </tr> </tbody> </table> <p>And the greenbelt is demarcated in the layout map which was submitted</p>	Category	Total Area(in Acres)	Area under 15 mt and 10 mt wide Green Buffer and other Green Area	20.06	As per EIA Guidelines 33% of Individual Plot Area under Green /Open	22.42	Minimum Green Area/Open Space under Sub-station Area	0.53	Total Area under Green	43.01 Acres (33%)
Category	Total Area(in Acres)											
Area under 15 mt and 10 mt wide Green Buffer and other Green Area	20.06											
As per EIA Guidelines 33% of Individual Plot Area under Green /Open	22.42											
Minimum Green Area/Open Space under Sub-station Area	0.53											
Total Area under Green	43.01 Acres (33%)											
10	Processing fee applicable as per Dept. of STE dated no.10/167/2013-STE(s)/150178/1 dated 27/06/2019	The necessary processing fee is being submitted by PSIEC separately.										

Environmental Engineer, PPCB, RO, Fatehgarh Sahib was requested vide email dated 11.09.2020 to send the report on the following points:-

- i) Status of the construction in the project area for which application of TORs submitted by the project proponent. Also attached the photographs of the project site.
- ii) Status of industries/other important structures located within 500 m radius from the boundary of the proposed project site.
- iii) Whether the site of the project is meeting the siting guidelines farmed by the Punjab Pollution Control Board & suitable for such type of project.

Accordingly, Environmental Engineer, PPCB, RO, Fatehgarh Sahib vide email dated 24.09.2020 informed that the site was visited by A.E.E. of this office on 18.09.2020 and observed as under:

- i) The proposed site is an agricultural field having paddy during the visit. There was no construction activity observed on the proposed site. (photographs attached.) However, Sirhind Choe is passing through the proposed site of Pharmaceutical Park.
- ii) The detail of Industries located within 500 m radius from the boundary of the proposed project site is given as under:

Sr. No.	Name of the Industry	Type of the Industry
1.	M/s Natural Castings, Vill.Mullanpur Kalan, G.T. Road, Sirhind Side, Mandi Gobindgarh	Induction Furnace
2.	M/s Parvati Ceramics, Vill. Wazir Nagar, Mandi Gobindgarh	Ceramics

3.	M/s Aggarwal Ceramics, Vill. Mullanpur, Ambey Majra, Mandi Gobindgarh	Ceramics
4.	M/s Pushpanjli Strips, Vill. Mullanpur Kalan, G.T. Road, Sirhind Side, Mandi Gobindgarh	Rolling Mill
5.	M/s SALASAR Castings, Vill. Mullanpur Kalan, Tehsil Sirhind, Distt. Fatehgarh Sahib.	Induction Furnaces
6.	M/s Eden Steel Alloys, Vill. Mullanpur, Ambey Majra, Road, Near power Grid, Mandi Gobindgarh	Induction Furnace
7.	M/s Satpal Strips (P) Ltd., Vill. Wazirnagar, PO. Mullanpur Kalan Mandi Gobindgarh	Rolling Mill
8.	M/s JMK Industries, Village Wazirbad, Sirhind, Distt. Fatehgarh Sahib	Induction Furnace
9.	M/s Mata Alloys Pvt. Ltd. (Punia Alloys), Vill. Wazirabad, Ambey Majra Road, Mandi Gobindgarh	Induction Furnace
10.	M/s Chandigarh Castings Pvt. Ltd., Vill. Ambey Majra, Mandi Gobindgarh	Induction Furnace
11.	M/s Bhawani Castings (P) Ltd., Vill. Ambey Majra, Mandi Gobindgarh	Induction Furnace
12.	M/s Vardhman Adarsh Ispat (P) Ltd., Vill. Ambey Majra, Near 220 KVA Grid, Mandi Gobindgarh	Rolling Mill
13.	M/S Jagat Metals (P) Ltd., Vill. Ambey Majra, Near 220 KV Power Station, Mandi Gobindgarh, Fatehgarh Sahib	Induction Furnace
14.	M/s Akshat Alloys. (Keshav Alloys Pvt. Ltd), Sirhind Side, Vill. Ambey Majra, Mandi Gobindgarh	Induction Furnace
15.	M/s Kanha Concast Vill. Ambey Majra, Chattarpura Road, Mandi Gobindgarh	Induction Furnace
16.	M/s Bassi Alloys (P) Ltd., Vill. Ambey Majra, Mandi Gobindgarh, Fatehgarh Sahib	Induction Furnace

iii) As per District Town Planner letter no. 664DTP(FGS)F(T) dated 09.07.2020. the proposed site falls in the Industrial Use Zone of Notified Master Plan, Gobindgarh and there is permission of Industry of any kind, in it.

iv) Also, PSIEC has submitted a report from Tehsildar regarding various distances from the boundary of the proposal project as under:-

Sr. No.	Description	Distance
1.	Village Ialdora	>500 meters
2.	Village Phirni	>500 meters
3.	Wild life sanctuary	Not present near Boundary of the State
4.	Zoo	Not present near Boundary of the State
5.	Residential Area*	>500 meters
6.	15 Pucca house	>500 meters
7.	Educational Institute	>500 meters
8.	Historical Religious Place	>500 metres

It is pertinent to mention here that Sirhind Choe (which ultimately meets river Ghaggar) is passing through the center of the proposed site for Pharmaceutical Park and it is apprehended that the wastewater from the proposed pharmaceutical industries may find its way into Sirhind Choe which ultimately meets river Ghaggar. Punjab Government has already submitted Action Plan for Clean River Ghaggar to Hon'ble NGT. Therefore, this office is of the opinion that the proposed storage of solvent/ spent solvent and proposed ETPs of the proposed Pharmaceutical units should be established at the farthest point from the Sirhind Choe. All the proposed Pharmaceutical units should adopt zero liquid discharge technology (ZLD). A buffer zone of thick green belt all around the boundary of the proposed project should be provided to control the emissions contain odour.

From above, it is clear that the site is suitable for the proposed project as per Policy of the Board, but this office is of opinion that above said Important point regarding Sirhind Choe may be considered before the issuance of TOR under EIA Notification 14.09.2006 for setting up of Pharmaceutical Park at the proposed site.

The details of the project as given in Form 1, Pre-feasibility Report and EDS replies submitted are as under:

Sr. no.	Description	Details
1.	Name of the project	Pharmaceutical Park (Bulk drugs & APIs and Formulations) in Wazirabad village, Fatehgarh Sahib District, Punjab.
2.	Online Proposal No.	SIA/PB/NCP/56008/2020
3.	Nature of project	EC for new project
4.	a) Category b) Activit	a. Category B 1 b. 7 (C) for Industrial estates/Parks/Complexes/areas, export processing zones
5.	Whether the project falls in the critically polluted area notified by MoEF&CC/CPCB.	No
6.	Total Project Cost	Rs. 172 Crores
7.	Amount of EC Processing Fee deposited by NEFT/DD	Rs. 4.3 lakhs (25% of processing fees) Not deposited.

8.	Details of the technology proposed for control of emissions & effluents generated from the project	S. No.	Details	Technology Proposed	Capacity
		1.	ETP with ZLD Technology	Conventional Primary/secondary/Tertiary treatment followed by evaporation system (MEE/ LTE/ ATFD etc.)	1.5 MLD
		2	STP	ASP/SBR/MBBR etc.	0.5 MLD
		3	APCD	The individual industries shall provide the same as per technology approved by CPCB/PPCB	
9.	Co-ordinates	Point	Latitude	Longitude	
		A	30°37'48.22"N	76°19'0.14"E	
		B	30°37'45.05"N	76°19'39.52"E	
		C	30°37'27.21"N	76°19'34.20"E	
		D	30°37'27.35"N	76°19'10.28"E	
10.	Plot Area Details	Total Plot Area: 130.32 acres			
		S.No	Landuse	Area (in Ac)	% age
		1	Industrial plots	67.93	52.13
		2	Commercial use	6.00	4.60
		3	Public building	4.00	3.07
		4	Elec.Substation	8.00	6.14
		5	Water works/WTP	2.63	2.02
		6	CETP/STP	3.65	2.80
		7	Green/Open space	20.06	15.39
		8	Common Waste Material	1.00	0.77
		9	Road/Rasta	17.05	13.08
		10	Total	130.32	100.00
11.	Type of project land as per master plan	The proposed land falls under the Industrial zone of Notified master plan of Mandi Gobindgarh (the letter from Town & Rural planning department, Punjab)has been submitted.			
12.	Details of valid CTE/CTO	Not applicable-It is a new proposed project			
13.	Raw material details	In the proposed project, production and manufacturing of API's and Intermediates will involve various raw materials,			

		where chemical reactions will take precipitation, substitution, addition, centrifugation, purifications, solvent recovery etc.			
14.	Production Capacity details:	Product Name		Total (TPA)	
		API & Bulk Drugs, Intermediates and formulations		2000 TPD/730000TPA	
15.	Details of major productive machinery/plant:	The PSIEC shall allot the plots to prospective buyers and the productive machinery shall be decided by prospective industries as per the requirement of Bulk drugs & APIs/Intermediates units			
16.	Manpower requirement	S.No.	Details	Manpower	Remarks
		1	During Construction phase	500-600	Preference will be given to employ from nearby villages based on the skills & semi-skilled(labor-oriented employment) etc.
		2	During Operation phase		
		i	Permanent Staff	500	
		ii	Permanent Worker (Skilled)	1500	
		iii	Worker (Semi-Skilled)	1000	
			Total	3000	
17.	Details of Emissions	The individual industries shall provide adequate & appropriate pollution control systems as per proposed processes as per the CPCB/PPCB norms.			
18.	Hazardous/Non-Hazardous Waste Generation details & their storage, utilization and disposal.	The PSIEC will make proper arrangements for storage & disposal of ETP sludge as per the provisions of Hazardous Waste Management Rules), 2016. Further, the individual industries shall also make proper arrangements for storage & disposal of ETP sludge/ other hazardous wastes as per the provisions of Hazardous Waste Management Rules), 2016.			
19.	Solid Waste generation and its mode of disposal:	Details	Unit	Quantity per day	Disposal method
		Domestic Solid Waste	Kg	600 Kg	To the local Body for management along with MSW of the city.

		Hazardous waste	MTD	6.0MT	Authorized TSDF at Nimbua (DeraBassi) Dist. SAS Nagar.
		Fuel Ash	TPD	40 MT	The fuel Ash shall be disposed off for landfill as per CPCB guidelines. Adequate & appropriate land parcels shall be arranged in nearby area well before commissioning of industries.
20.	Waste water generation & its disposal Arrangement in Operation Phase:	Details	Quantity	Disposal method	
		Industrial Effluent	1480 KLD (1.48 MLD)	Treated in CETP and reused in cooling and other uses in the industries.	
		Domestic effluent	400 KLD (0.4MLD)	Reused for greenbelt development & flushing etc	
		Sludge from effluent	6.0 MTD	Authorized TSDF at Nimbua(DeraBassi)	
		Note: ZLD Technology will be implemented for maximum usage of treated water			
21.	Details of the block in which the project site is located as per CGWA guideline	Sirhind block-Over exploited category as per CGWB report of Fatehgarh Sahib District. However, PSIEC shall draw water of 2.5 MLD from the nearby canal. Permission from the water resources department vide letter dated 07.07.20 has been submitted along PFR.			
22.	Breakup of Water Requirements & its source in Operation Phase:	Total One-time water requirement:- 3.4 MLD Fresh Water : 2.0 MLD, Recycled: 1.4 MLD Source of water: - Canal Water Waste water generation:-Trade Effluents around 1.48 MLD and sewage around 0.42MLD.			
23.	Water balance chart	Submitted			
24.	Green belt area details	Category		Total Area (in Acres)	
		Area under 15 mt and 10 mt wide Green Buffer and other Green Area		20.06	

		As per EIA Guidelines 33% of Individual Plot Area under Green /Open	22.42												
		Minimum Green Area/Open Space under Sub-station Area	0.53												
		Total Area under Green	43.01 Acres (33%)												
25.	Energy requirements & savings:	The details of the energy are given below:													
		<table border="1"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Unit</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Power load</td> <td>KW</td> <td>10 MVA</td> </tr> <tr> <td>2.</td> <td>D.G sets</td> <td>KVA</td> <td>About 50%</td> </tr> </tbody> </table>	S. No.	Description	Unit	Total	1.	Power load	KW	10 MVA	2.	D.G sets	KVA	About 50%	
S. No.	Description	Unit	Total												
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2.	D.G sets	KVA	About 50%												
26.	a. EMP Budget details	a. EMP budget details :													
		<table border="1"> <thead> <tr> <th>Sr. No</th> <th>Environmental Protection Measures</th> <th>Capital Cost Rs. Lakh</th> <th>Recurring Cost Rs. Lakh</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>EMP</td> <td>1720</td> <td>172</td> </tr> <tr> <td></td> <td>Total</td> <td>1720</td> <td>172</td> </tr> </tbody> </table>	Sr. No	Environmental Protection Measures	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh	1.	EMP	1720	172		Total	1720	172	
Sr. No	Environmental Protection Measures	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh												
1.	EMP	1720	172												
	Total	1720	172												
		Note: 27.5 crore of cost is considered for CETP & STP in project cost for EMP purpose													
	b. Details of Environment Management Cell (EMC) responsible for implementation	b. Details of Environment Management Cell (EMC) responsible for the implementation of EMP: The project proponent/developer would be responsible for setting up an organized structure for environmental management at the proposed Pharmaceutical Park. The Environmental Management Cell (EMC) will be headed by an EHS Manager under the Executive Engineer													
27.	Details of the activities proposed to be covered under CER be provided	Corporate Environment Responsibility (CER) budget allocated is about 1.5% (2.58 crores) of the project cost.													

2.0 Deliberations during the 193rd meeting of SEAC held on 26.09.2020

The meeting was attended by Sh. J.S Bhatia, Technical Consultant/GM of the PSIEC through Video Conference and Mrs. Sunita Mantri, Environmental Consultant, M/s Enkay Enviro Services Pvt. Ltd., Jaipur. The environmental Consultant of the promoter company was allowed to make a presentation of the proposal before SEAC. During the meeting, the following observations were made to which the project proponent replied as under:

Sr. no.	Observations	Reply
1.	Whether General conditions are applicable	No, as per the EIA Notification, 14.09.2006, Clause of General Condition is not applicable.
2.	A letter addressed to MS, SEIAA, dated 25.09.20 has been received from MD, PSIEC requesting to take up the matter regarding considering the project as B2 category w.r.t MoEF notification dated 27.03.2020 with MoEF & CC whereas, SEAC observed that the above notification is for pharmaceutical units falling under Activity 5(f) but not for the Industrial Estates/parks which are covered under activity 7(c) of the EIA notification,2006. Clarify, as to whether the project proponent wanted to continue under activity 7(c) of Industrial Estate, so that TORs can be issued	The project proponent informed that it was decided to continue with the same proposal under activity 7(c) of Industrial Estate & requested to issue TORs.
3.	When the processing fee for TOR will be submitted by PSIEC.	The proponent informed that the process of obtaining approval for submission of requisite fee submission is under process and will be submitted before the SEIAA meeting. The process of approvals got delayed due to Corona Pandemic.

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

Environmental Consultant requested to use baseline monitoring of adjacent unit was done in the month of March, April, May of year 2018 for adjoining units. She requested to kindly accept the study as per the OM dated 29.08.2017 issued by the MoEF&CC, New Delhi. SEAC accepted the request of the environmental consultant to consider the study carried out as a baseline study. However, it was decided that 01 months additional study shall be carried out with effect from the date of submission of application of ToRs which shall include at least five days of traffic study.

3.0 Recommendations

After detailed deliberations, it was decided to categorize the project under Activity 7(c) category B-1 with public consultation as required for the project. The baseline study shall be carried out by Environmental Consultant for one-month of additional study with effect from the date of submission of application of ToRs(except monsoon season), which shall include at least five days traffic study. The Committee approved the following Terms of Reference 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. The project falls under category B-1 under item 7(c): Industrial Estates/ Parks/ Complexes/ areas, Export Processing Zones (EPZS), Special Economic Zones (SEZS), Biotech Parks, Leather Complexes projects and requires an Environmental Impact Assessment Study for the entire site area.
2. Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental damage, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected sites.
3. Submit the details of the land use break-up for the proposed project. Details of land use around 10 km radius of the project site. Analysis should be made based on the latest satellite imagery for land use with raw images. Check on flood plain of any river
4. Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/ villages and present status of such activities.
5. Examine the impact of the proposed project on the nearest settlements.
6. Examine baseline environmental quality along with projected incremental load due to the project taking into account of the existing developments nearby.
7. Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio-economic and health.
8. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area, and any obstruction of the same by the project.
9. Details regarding project boundary passing through any eco-sensitive area and within 10 km from eco-sensitive area.
10. Green buffer in the form of a green belt of a width of 15 meters should be provided all along the periphery of the industrial area. The individual units should keep 33% of the allotted area as a green area.
11. Submit the details of the trees to be felled for the project
12. Submit the details of the infrastructure to be developed.
13. Submit the present land use and permission required for any conversion such as forest, agriculture, etc.
14. Submit details regarding R&R involved in the project
15. Zoning of the area in terms of 'type of industries' coming-up in the industrial area based on the resource requirement along with likely pollutants with quantity from the various industries.
16. The project boundary area and study area for which the baseline data is generated should be indicated through a suitable map. Justification of the parameters, frequency and locations shall be discussed in the EIA.

17. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
18. Site justification of the identified industry sectors from an environmental angle and the details of the studies conducted if any.
19. Ground water classification as per the Central Ground Water Authority.
20. Submit the source of water, requirement vis-a-vis waste water to be generated along with treatment facilities, use of treated waste water along with water balance chart taking into account all forms of water use and management.
21. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.
22. Examine soil characteristics and depth of ground water table for rainwater harvesting.
23. Examine details of solid waste generation treatment and its disposal.
24. Examine and submit details of the use of solar energy and alternative source of energy to reduce the fossil energy consumption
25. In case DG sets are likely to be used during the construction and operational phase of the project, emissions from DG sets must be taken into consideration while estimating the impacts on-air environment. Examine and submit details.
26. Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analyzed with measures for preventing traffic congestion and providing faster trouble-free system to reach different destinations in the city.
27. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
28. Examine the details of the transport of materials for construction which should include source and availability.
29. Examine the details of National Highways/State Highways/ expressways falling along the corridor and the impact of the development on them.
30. Examine noise levels - present and future with noise abatement measures.
31. Identify, predict and assess the environmental and sociological impacts on account of the project. A detailed description with costs estimates of CSR should be incorporated in the EIA / EMP report
32. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
33. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
34. The Public hearing should be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the TOR

letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.

35. A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
36. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.
37. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelled out.
38. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigate measure, project proponent can refer to the model TOR available on Ministry website "<http://moef.nic.in/Manual/Industrial> Estate"

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. Examine the standard conditions prescribed by the MOEF&CC vide OM dated 09.08.2018.
3. 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)
4. 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.
5. 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
6. 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.
7. 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 otherwise project proponent shall submit the Change of land use of the project site for total land area.
8. 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.
9. 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
10. 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.
 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
 12. Examine the use of natural gas (if available) as substitute fuel wherever possible.
 13. Delineate the concrete proposal regarding activities to be undertaken under Corporate Environmental Responsibility indicating the followings: -
 - i) various activities to be undertaken as per the provision of OM dated 01.05.2018
 - ii) proportionate provisions of funds,
 - iii) the period in which CER activities is to be implemented
 - iv) the person(s) responsible for the implementation.
 14. 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
 15. Submit the EMP for green belt considering the amount to be spent Rs 400 per plant.
 16. Examine the water requirements of the smaller unit proposed in the industrial park
 17. Examine any change in the alignment of the Sirhind Choe passing through the project.
 18. Examine the odour generated from the pharmaceutical unit and preventive measures.
 19. Submit the layout plan with earmarking of the 3 rows plantation on both sides of Sirhind Choe and along the boundary wall.
 20. Examine the location of ETP/STP at the farthest distance from the Sirhind Choe.

21. 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 industrial park 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.
22. The project proponent is allowed to prepare an EIA study report by using the data of monitoring carried out in the month of March April and May 2018 with one-month additional study shall be carried out with effect from the date of submission of application of ToR which shall include at least five days traffic study.

The following general points shall be noted:

- (i) The EIA document shall be printed on both sides, as far 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 a 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 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.

3.0 Deliberations during 172nd meeting of SEIAA held on 12.10.2020.

The case was placed before SEIAA in its 172nd meeting held on 12.10.2020 and the same was attended by the following through video conference: -

- (i) Sh. J.S. Bhatia, Technical Consultant, GM, PSIEC.
- (ii) Mrs. Sunita Mantri and Mr. Fasi Khan consultant of the Promoter Company

The environmental Consultants of the promoter company presented the salient features of the project. SEIAA raised certain observation to which they replied as under:

Sr. No.	Observations	Reply
1.	As to whether any category 'A' project as defined in the EIA Notification 14.09.2006 has been proposed in the industrial park?	<p>The proposed Pharmaceutical Park falls in the Industrial Zone of the Notified Master Plan Gobindgarh, and there is permission for industry of any kind to set up within the pharmaceutical park.</p> <p>Any Pharmaceutical industry which is covered under activity 5(f) of the schedule, if set up in the notified industrial area/estate, is to be considered under category B, therefore no pharmaceutical industry which is set up in this park will be considered under category A. This park is being developed for setting up purely pharmaceutical industries (APIs) for manufacture and formulations of drugs only.</p> <p>Further, the area of the industrial park is less than 50 ha. Therefore, the project falls under the category 'B1' for project activity (7c).</p>
2.	How 33 % green area shall be achieved in the industrial park.	<p>Individual Units, which are to be established, shall be asked to provide 33% green area within their project site.</p> <p>PSIEC shall also provide a 33 % green area w.r.t the common area.</p>

		An undertaking regarding the provision of green belt of 33% of the total project area (including individual plots greenbelt area) was submitted and the same was taken on record.
3.	Submit width proposed for Greenbelt on both sides of the seasonal drain (Sirhind Choe) passing through the project site.	A Greenbelt buffer of 15 m on both sides of the seasonal drain (Sirhind Choe) will be maintained during the development of the Project.
4.	Whether permission for the forest land involved in the project and drawing the canal water has been obtained.	Application will be submitted for obtaining permission from the competent authority. He requested to issue additional TOR in this regard.
5.	Whether the processing fee for the has been deposited for obtaining the Environmental Clearance of the project.	Yes, fee amounting Rs.4,30,000/- had already been deposited vide NEFT with UTR No. PUNBH.20279971664.
6.	As per the condition no. 5 of CLU issued to the project, some area of the site is low lying and no, document of ownership of site has been received and it should be considered at own level. Clarify	The project proponent requested to issue additional TOR to examine the matter.

SEIAA was satisfied with the reply of the project proponent.

After detailed deliberations, SEIAA decided to accept the recommendations of SEAC and issue TORs as proposed by SEAC with the following additional TORs:

Additional TORs:

1. Submit an undertaking to the effect that no category 'A' unit will be allowed in the industrial park.
2. Submit a copy of the the layout plan with earmarking of the green belt to be developed in an area 33 % of the plant area with tree species in accordance with SEIAA guidelines. Provide the total count of trees to be planted with out accounting for the shrubs and protecting the same with tree guards. The greenbelt shall inter alia cover the entire periphery of the plant to the maximum extent.
3. Submit an undertaking to the effect that allotment letter of all plots in this park shall include a condition that the allottee shall maintain at least 33% of the total area of the plot under green cover as per MOEF&CC guidelines.
4. Submit a copy of the layout plan with earmarking of Greenbelt buffer of 15 m on both sides of the Sirhind Choe.
5. Submit acknowledgment along-with copy of application submitted online for obtaining forest clearance under the provision of Forest (Conservation) Act, 1980.
6. Submit the permission regarding withdrawal of canal water from the competent authority.

7. Submit the compliance of the condition no. 5 of CLU issued to the project regarding the management of the low-lying area in the project.

Item No.172.02: Application for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion for Manufacturing of various bulk drugs and drugs intermediate by “M/s Cadchem Laboratories Limited” at Village- Jaula Khurd, Tehsil- Derabassi, District- SAS Nagar Mohali, Punjab, (Proposal no SIA/PB/IND2 /156711 /2020).

Facts of the case are as under:

1.0 Background

The project proponent has applied for obtaining Environmental Clearance under EIA Notification, 2006 for the expansion of the manufacturing of various bulk drugs and drugs intermediate. As per EIA Notification, 14.09.2006 the project falls under “A” category but now, MOEF&CC has issued OM vide F.No.22-25/2020-IA.IIIII dated 13.04.2020 which states that “proposal or activities in respect of Active Pharmaceuticals Ingredients (API) received up to 30.09.2020 shall be appraised as “B2” projects to ensure drug availability or production to reduce the impact of Novel Coronavirus. The company is involved in the manufacturing of various categories of active pharmaceuticals ingredients and its intermediate with a total existing production capacity of 173 MTPA.

2.0 Present Case

The unit proposes to manufacture various bulk drugs and drug intermediates with a production capacity of 503 MTPA. The project proponent has submitted the EIA report. EIA report was scrutinized and EDS was raised on 22.06.2020 & 13.08.2020, to which the project proponent replied online on 05.08.2020 & 31.08.2020 respectively.

Further, the Project proponent has deposited EC processing fee of Rs.1,41,300/- through NEFT Ref ID. 5040972424 (Rs.53,300/-) and 5041207993 (Rs.88,000/-) dated 16.07.2020 and 23.07.2020 respectively. Thereafter, the application for obtaining EC was accepted online on 22.09.2020.

Environmental Engineer, PPCB, RO, Mohali was requested vide email dated 30.07.2020 and 06.08.2020 to send the status report. Accordingly, Member Secretary, PPCB vide email dated 23.09.2020 has sent a copy of the letter no. 3610 dated 23.09.2020 to the effect that the industry was visited by its AEE of Regional Office, Mohali of the Board on 11.07.2020. The pointwise reply w.r.t the queries are following:

Sr. No.	Observations	Reply
1.	Construction/Installation status of the expansion proposal of the proposed project of the industry	The industry has not started any construction activity at the site for the expansion purpose.
2.	As to whether existing production is less than 173 MTPA. Please send the detailed report.	The industry is having valid consents for the production capacity as 173 MTA and is operating within the existing parameters.
3.	Distance of unit from the boundary of MC Limit and interstate boundary.	The MC, Lalru is more than 05 KM from the site and the interstate boundary is about 1.5 KM from the site as checked from Google map.
4.	Status of physical structures within 500 m radius of the site including the status of industries, if any	There is 02 no. poultry farm, 01 no. plastic container washing unit and 01 no. meat plant within the 500 m of the site.
5.	Status of consents issued to existing unit under the Water Act,1974 and Air Act,1981	The industry is having valid consent to operate under the Water (Prevention & Control of Pollution) Act, 1974 & under the Air (Prevention & Control of Pollution) Act, 1981 i.e. upto 30.06.2021 under both Acts.
6.	Compliance report to the conditions w.r.t consent to Operate under the Air Act, 1981 and Water Act, 1974 granted for its existing unit.	The industry is complying with all the consent conditions granted to it under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 except the industry has failed to achieve the standards under Water (Prevention & Control of Pollution) Act, 1974. The industry was given the opportunity of personal hearing before the chairman of the board on 13.08.2020 and the industry has submitted the fresh analysis results from the laboratory approved by the board, which are within the limit. The industry has been advised to improve and stabilize its treatment system. Further, monitoring will be done by PPCB to check the efficiency of the modified system.

2.0 Deliberations during the 193rd meeting of SEAC held on 26.09.2020

The meeting was attended by Sh. Navneet Gupta, Managing Director of the company through Video Conference and Dr. S.K Yadav, Chief Manager, M/s Wolkem India Limited, Udaipur. Environmental Consultant of the promoter company made the presentation for the proposal before SEAC as under:-

Sr. No.	Description	Details																					
1.	Name of the project and address	M/s Cadchem Laboratories Limited Village – Jaula Khurd, Tehsil- Derabassi, District- S.A.S. Nagar, Punjab – 140501																					
2.	Online Proposal No.	SIA/PB/IND2/156711/2020																					
3.	Nature of project	Expansion (application submitted for EC for existing & proposed project)																					
4.	a) Category b) Activity	a) As per EIA Notification, 14.09.2006 the project fall under "A" category but as per MoEF&CC OM dated 13.04.2020 project shall be appraised under category B2. b) 5(f)																					
5.	Total Project Cost	14.13 crores																					
6.	EC Processing Fee deposited by NEFT/DD	Rs. 1,41,300/- i) Rs.53,300/- vide NEFT Ref ID. 5040972424 dated 16.07.2020 ii) Rs.88,000/-vde NET Ref ID 5041207993 dated 23.07.2020.																					
7.	Co-ordinates of all the corners of the project site	<table border="1"> <thead> <tr> <th>No. of Boundary Pillar</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>Pillar-1</td> <td>N 30⁰ 27' 37.40"</td> <td>E 76⁰ 52' 33.29"</td> </tr> <tr> <td>Pillar-2</td> <td>N 30⁰ 27' 42.92"</td> <td>E 76⁰ 52' 34.04"</td> </tr> <tr> <td>Pillar-3</td> <td>N 30⁰ 27' 42.27"</td> <td>E 76⁰ 52' 38.64"</td> </tr> <tr> <td>Pillar-4</td> <td>N 30⁰ 27' 40.86"</td> <td>E 76⁰ 52' 39.04"</td> </tr> <tr> <td>Pillar-5</td> <td>N 30⁰ 27' 38.88"</td> <td>E 76⁰ 52' 39.09"</td> </tr> <tr> <td>Pillar-6</td> <td>N 30⁰ 27' 36.98"</td> <td>E76⁰ 52' 38.95"</td> </tr> </tbody> </table>	No. of Boundary Pillar	Latitude	Longitude	Pillar-1	N 30 ⁰ 27' 37.40"	E 76 ⁰ 52' 33.29"	Pillar-2	N 30 ⁰ 27' 42.92"	E 76 ⁰ 52' 34.04"	Pillar-3	N 30 ⁰ 27' 42.27"	E 76 ⁰ 52' 38.64"	Pillar-4	N 30 ⁰ 27' 40.86"	E 76 ⁰ 52' 39.04"	Pillar-5	N 30 ⁰ 27' 38.88"	E 76 ⁰ 52' 39.09"	Pillar-6	N 30 ⁰ 27' 36.98"	E76 ⁰ 52' 38.95"
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8.	Land Khasra Nos.	Khasra no. 793/1, 794, 795, 796, 797, 798, 799, 799/2, Village – Jaula Khurd, Tehsil- Derabassi, District- S.A.S. Nagar																					
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10.	Land use as per master plan	A copy of the master plan was not submitted whereas, the Project proponent has submitted vide letter no. 2747 dated 26.06.2020 from the Director of factories that the proposed project site falls under the master plan of Lalru in the General Industry zone and part of it lies along the drain. Further, it is mentioned that the industry is allowed to be set up in the general industry zone.																					
11.	Details of valid consent to operate under	Consent to Operate has been obtained for Air vide certificate No. CTOA/varied/SAS/2017/5275813 dated 17.03.2017 and valid for 30.06.2021																					

	the Air & Water Act	Consent to Operate for Water vide certificate No. CTOW/varied/SAS/2017/5275990 dated 17.03.2017 and valid for 30.06.2021.
12.	Raw material details:	
	S. No	Name of Raw Material
		Consumption MTPA
	1	Chiral alcohol
	2	Triethyl amine
	3	Methane sulfonyl chloride
	4	Toluene
	5	Cyclohexane
	6	Sodium carbonate
	7	Sodium chloride
	8	Potassium hydroxide
	9	Carbon disulphide
	10	Imidazole
	11	DMSO
	12	Ethyl acetate
	13	HBr in solution
	14	Activated Carbon
	15	Ammonia
	16	Acetone
	17	Hyflo
	18	Protected diol P1
	19	Acetonitrile
	20	MTBE
	21	Hydrochloric acid
	22	Sodium hydroxide
	23	Acetic acid
	24	Calcium chloride
	25	Phenyl ethylamine
	26	Isoveleraldehyde
	27	Cyanoacetamide
	28	Triethylamine
	29	Hydrochloric acid
	30	MIBK
	31	Urea
	32	Sodium hydroxide
	33	Sodium chloride
	34	Hyflo
	35	Activated Carbon
	36	Chloroform
	37	Methanol
	38	Phenyl ethylamine
	39	Hypo solution
	40	IPA
	41	Activated Carbon
	42	Protected ester R1
	43	Acetonitrile
	44	MTBE
	45	Hydrochloric acid
	46	Sodium hydroxide
	47	Acetic acid
	48	Calcium chloride
	49	2-CPG
	50	Sulphuric acid

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held on 12.10.2020"

51	Methanol	2142.00
52	Toluene	267.40
53	Methylene chloride	2914.40
54	Ammonia	497.31
55	Sodium sulphate	6.10
56	L-(+)-Tartaric acid	233.91
57	Acetone	1596.35
58	Sodium bicarbonate	264.42
59	Thiophene-2-Ethanol	40.68
60	Sodium hydroxide	40.68
61	PTSC	81.36
62	TEBAC	1.70
63	DPHP	294.93
64	Ethyl acetate	505.11
65	Hydrochloric acid	69.83
66	Isopropyl alcohol	635.63
67	Para-formaldehyde	142.38
68	Hexanes	2244.18
69	Activated Carbon	9.50
70	Hyflo	1.70
71	Choline chloride	31.32
72	POCl ₃	66.60
73	O-Dichloro benzene	46.44
74	Calcium carbonate	39.60
75	Calcium hydroxide	5.76
76	Methanol	754.02
77	Oxalic acid	45.08
78	Di-Isopropyl amine	78.30
79	Cytidine monophosphate	45.00
80	Morpholine	33.84
81	DCC	51.84
82	Ethanol	568.08
83	Activated Carbon	9.00
84	Formic acid	21.96
85	Sodium hydroxide	9.00
86	Methylene chloride	448.92
87	Rifamycin-S	30.00
88	Methylene chloride	399.12
89	4-methyl-pyridin-2-ylamine	13.92
90	Iodine	5.76
91	Ascorbic acid	6.00
92	Hydrochloric acid	5.28
93	Sodium thiosulphate	7.20
94	Sodium chloride	10.08
95	Sodium sulphate	4.08
96	Ethanol	1152.0
97	SABAmHCl	120.00
98	4-CBC	134.88
99	TBAB	16.80
100	Potassium hydroxide	242.40
101	Sodium sulphate	48.00
102	Methylene chloride	2847.62
103	Ethyl acetate	2381.21
104	Activated Carbon	6.00
105	Hyflo	1.20
106	Fex-8	22.08

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	107	Methanolic hydrochloride	110.64
	108	Toluene	22.08
	109	Sodium bicarbonate	2.40
	110	Azacyclone	18.72
	111	Potassium carbonate	11.52
	112	Acetone	11.52
	113	Potassium Iodide	1.20
	114	Isopropyl alcohol	46.80
	115	Caustic soda	7.68
	116	Methanol	20.64
	117	Sodium borohydride	6.24
	118	Ethyl acetate	14.16
13.	Production Capacity details:		
	S. No.	Products Name	Capacity (TPA)
			Existing Additional/ Proposed Total
	1	Luliconazole	Nil 6.0 6.0
	2	Pitavastatin Calcium	Nil 1.2 1.2
	3	Pregabalin	Nil 60.0 60.0
	4	Rosuvastatin Calcium	Nil 6.0 6.0
	5	Clopidogrel Bisulphate	113.0.0 113.0 226.0
	6	Citicoline Sodium	Nil 36.0 36.0
	7	Rifaximin	Nil 24.0 24.0
	8	Levetiracetam	Nil 120.0 120
	9	Fexofenadine hydrochloride	Nil 24.0 24.0
	10	Etodolac (discontinue w.e.f. Aug, 2017)	60 Nil Nil
	Total		173.0 390.2 503.2
14.	Manpower requirement	After expansion- 134 nos.	
15	Details of the technology proposed for control of emissions & effluents generated from the project		
	Sr. No	Details	Technology to be adopted by new unit/After expansion
			Capacity of Proposed technology
	1.	APCD	Dust collector and scrubber
	2.	STP	Septic tank
	3.	ETP	Physical & Chlorine
	4.	ZLD Technology	W/w treated in ETP & MEE and reuse in RO
			-
			-
			90 KLD
			ET-90KLD MEE- 1800L/hr RO-82 KLD

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	5.	Continuous online emission/effluent monitoring system		Nil		Proposed online camera system
16.	Details of Emissions (After expansion)					
	Sr No	Source	Capacity	Chimney Height (m)	Air Pollution Control Device	
	1.	DG Set	380 kVA- 1 no. (Existing) 600 kVA- 1no. (Proposed)	30 m	Stack, Acoustic enclosure	
	2.	Boiler	Existing- 2TPH- 1no. 1.5 TPH- 1no. Proposed- Nil	30 m	Stack, Multi cyclone with dry Scrubber	
3.	VOC Emission from solvent distillation & Reactors	--	--	<ul style="list-style-type: none"> • Vent Condenser with child water/brine. • Activated carbon absorption system. • Wet scrubber system 		
17.	Hazardous/Non-Hazardous Waste Generation details & its disposal.					
	Hazardous Waste	Category	Existing Quantity	Proposed Quantity	Total Quantity	Disposal methods
	Used Oil	5.1	265 Ltr/Month	85 Ltr/Month	350 Ltr/Month	Disposal by selling to Registered Re-processors
	ETP Sludge	34.3	11.5MT/Annum	271.5 MT/Annum	283 MT/Annum	Will be sent to TSDF Nimbua Greenfield Limited
	Discarded Barrels contaminated with hazardous wastes/chemicals	33.3	20 No/Month	100 No/month	120 No/month	Will be sold to Authorized agencies
	Non-Toxic Process Waste	29.1	200 kg/Month	100 kg/Month	300 kg/Month	Will be sent to TSDF Nimbua Greenfield Limited.
	Process Residue	20.3	73MT/Annum	800 MT/Annum	873 MT/Annum	Disposal by sellto brick manufacturer.
	Boiler Ash	36.2	36 MT/Annum	30 MT/Annum	66 MT/Annum	Will be sold to brick manufacturer.

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	MEE salt	34.3	66MT/Annum	500 MT/Annum	566 MT/Annum	Will be sent to TSDF Nimbua Limited.	
18.	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	2	0.5	2.5	Will be sent to authorized recycler
		Boiler Ash	MT/Annum	36	30	66	Collection, Storage, Transportation, Sale to brick manufacturer.
19.	Waste water generation & its disposal Arrangement in Operation Phase:	Details	Existing Qty (KLD)	Proposed Quantity (KLD)	Total Quantity after expansion (KLD)	Disposal method	
		Industrial Effluent	15.35	74.15	89.5	Treatment through ETP/MEE. Treated water will be reused in the process.	
		Domestic effluent	5.0	-	5.0	Plantation	
		Total	20.35	74.15	94.5		
20.	Details of the block in which the project site is located as per CGWA guideline	Non- Notified area					
21.	Breakup of Water Requirements & its source in Operation Phase:	Water Requirement in KLD					
		S. No.	Purpose	Existing	Proposed	Total	
		1	RO 1 st	20.00	57.00	77.00	
		2	Utilities	25.00	37.00	62.00	
		3	Domestic Use	5.00	-	5.00	
		4	Plantation	5.00	15.00	20.00	
		5	Scrubber	-	1.00	1.00	
Total		55	110	165			
Source: Ground water (CGWA NOC vide dated 28.07.2020 for extraction of 83 KLD of fresh water has been applied whereas the balance will be met on treated waste water)							
22.	Revised CER Activities						
23.	S.No.	Activities	Environment Aspect	Cost (Rs. Lacs)	Timeline		
					Start Date	End Date	

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	1.	Providing Interlocking Tiles In School Ground Of The Following School's <ul style="list-style-type: none"> • Govt. Elementary Smart School, Jaula Khud, • High Smart Secondary School, Jaula Khurd • Govt. Sr. Secondary School, Jeoli • Govt. Elementary School Basauli • Govt. Senior Secondary School, Rani Majra 	Infrastructure	15	After Grant OfEc	Till 5 Years	
	2.	Provide Benches And Tables For Students In The Following School's: <ul style="list-style-type: none"> • Govt. Elementary Smart School, Jaula Khud, • High Smart Secondary School, Jaula Khurd • Govt. Sr. Secondary School, Jeoli • Govt. Elementary School Basauli • Govt. Senior Secondary School, Rani Majra 	Infrastructure	5	After Grant OfEc	Till 5 Years	
	3	Upgradaton Of Computer Section In The Following School's: <ul style="list-style-type: none"> • Govt. Elementary Smart School, Jaula Khud, • High Smart Secondary School, Jaula Khurd • Govt. Sr. Secondary School, Jeoli • Govt. Elementary School Basauli • Govt. Senior Secondary School, Rani Majra 	Infrastructure	7	After Grant OfEc	Till 5 Years	
	4	Tree Plantation In Nearby Villages Like Jaula Khurd, Rani Majra, Jeoli Etc.	Plantation	2	After Grant OfEc	Till 5 Years	
	Total				29		
24.	Revised EMP Plan	S.No.	Particulars	Existing Capital Cost (lacs)	Recurring Cost (in lacs per annum)	Proposed Capital Cost (lacs)	Recurring Cost (in lacs per annum)
		1	Air /Noise pollution control (Vent Condenser, Charcoal Absorber & Scrubber)	8.0	3.0	15.0	5.0
		2	Water Pollution Control Modification of ETP, Additional MEE & RO	49.53	5.0	57.0	5.0
		3	Green belt	0.5	0.2	2.0	1.0
		4	Occupational Health	2.0	1.0	4.0	2.0

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		5	Environmental Monitoring	10.0	1.0	10.0	1.0
		6	Hazardous waste disposal	2.0	1.0	2.0	1.0
		Total		72.03	11.2	90.0	15.0
25.	Block wise detail of Green Belt plantation	S.No.	Green Area Block	Existing Area (m2)	Proposed Area (m2)	No. of plants to be planted	
		1.	A Block	1411.48	-	212	
		2	B Block	1365.21	-	205	
		3	C Block	887.31	-	133	
		4	D Block	-	1035.0	155	
		5	E Block	-	1444.0	217	
		6	F Block	-	1376	206	
		7	G Block	-	1004	151	
		8	H Block	-	599	90	
		9	I Block	-	1205	181	
		10	J Block	-	270	41	
			Total	3664	6933	1591	
26.	Electricity Requirement	Sr.No.	Details			KVA	
		1	Existing requirement			9690.102 KVA	
		2	Additional requirement			785.538 KVA	
			Total requirement			1745.464 KVA	
		Source: Punjab State Power Corporation Limited (PSPCL)					

During the meeting, the following observations were made to which the project proponent replied as under:

Sr. No.	Query Raised by SEAC	Reply by PP & Consultant
1	Submit revised plantation budget	<p>The project proponent submitted a revised plantation budget wherein the capital cost of the proposed plantation has been increased from 2.0 lacs to 4.0 lacs and recurring cost from 1.0 lacs to 2.0 lacs/annum</p> <p>All the saplings proposed for plantation will be more than 3 feet in height to increase the survival rate.</p> <p>After considering the revised EMP, total Capital Cost @ 164.03 lacs and recurring cost 27.2 lacs per annum shall be spent for the implementation of the Environmental Management Plan.</p>
2	Submit a copy of Nimbua TSDF agreement with tenure and	The project proponent submitted a copy of the Hazardous Waste disposal agreement with Nimbua Greenfield (Punjab) Limited.

	quantity for hazardous waste disposal (process residue).	<p>He also submitted that point no. 6 and the definition of existing TSDF agreement clarifies that agreement with Nimbua Greenfield is linked with the authorization of Hazardous waste, PPCB and is valid upto the authorization of Hazardous waste disposal issued by PPCB.</p> <p>After obtaining EC, Application for Hazardous Waste Authorization will be applied to the Punjab Pollution Control Board for the proposed increased quantity of Hazardous waste. After that they will submit additional fee and a copy of Hazardous waste authorization to TSDF Nimbua Greenfield (Punjab) Limited for collection, transportation and disposal of additional HW quantity.</p>
3	Submit revised CER plan after reducing the time period of project completion i.e. upto 3 years and incorporating the activity of installation of solar panels in a nearby school.	The project proponent submitted a copy of the revised CER plan reducing the time of completion of activities from 5 years to 3 years and proposed Rs 3.5 Lacs for installation of Solar panels in a nearby school.
4	Submit revised Rain Water Harvesting proposal.	<p>The project proponent submitted that they will adopt two village ponds of Jaula Khurd (2500 sqm & 3200 sqm) outside the factory premises for rain water harvesting for which NOC has been obtained Gram Panchayat. A copy of the NOC of Gram Panchayat submitted by the project proponent was taken on record.</p> <p>Rainwater harvesting in factory premises will be carried out as per CGWA Notification dated 24.09.2020.</p> <p>Storage tanks will be constructed to collect rainwater from the rooftop to utilize the same for non-core activities.</p>
5	Submit the CGWA permission for abstract groundwater	Application for groundwater abstraction has been submitted to CGWA dated 28.07.2020.
6	Why green area requirement increased from 5 to 15. Clarify	The existing green belt area is 3664 (15.1 % of total project site) and the proposed green belt area in the expansion phase is 6933 (28.6% of the project area) so, due to the increase in green belt area, water requirement has been increased.
7	Water balance mismatch, clarify	The total water requirement of the project is 165 KLD out of which 82 KLD water will be recycled after treatment at ETP, MEE and RO and hence, only 83 KLD fresh water will be required for the project.

		<p>Total 89.5 KLD wastewater (HTDS & LTDS) will be generated. HTDS will be sent to MEE and condensate will sent to RO process. LTDS effluent will be treated at ETP and then send to RO process.</p> <p>Total 82 KLD treated water will be sent to RO process. RO – permeate 60% will be used in boiler and cooling tower and RO-Reject 30% will return to ETP for further treatment process.</p> <p>A copy of the revised water balance for the summer, Rainy and Winter season was taken on record.</p>
8	What is the class of Surface water as per the test results?	The surface water quality is matching with 'Class D' as per surface water quality criteria by CPCB 1979 and IS 1982.

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

3.0 Recommendations

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 for Manufacturing of various bulk drugs and drugs intermediate by "M/s Cadchem Laboratories Limited" at Village- Jaula Khurd, Tehsil- Derabassi, District- SAS Nagar Mohali, Punjab, as per the details mentioned in the Form 2, EIA report & subsequent presentation /clarifications made by the project proponent & his consultant and conditions are as under:

I. Statutory compliance

- i. 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.
- 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 SO₂ and NO_x in reference to SO₂ 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 extant regulations and the guidelines in this regard.
- ix. Ambient air & noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air quality, noise especially during worst noise generating activities, water quality and soil should be periodically monitored during construction phase as well as operation & entire life phase as per the MoEF&CC guidelines, maintain the record for the same and all the mitigation measures should be taken to bring down the levels within the prescribed standards.

III. Water quality monitoring and preservation

- i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises ,
- ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- iv. Total fresh water requirement shall not exceed the 83 KLD. 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 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 from the at the borewell for abstraction of ground water if any, outlet of the ETP/STP and any pipeline to be used for re-using the treated wastewater back into the system and for horticulture purpose/greenbelt 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 of 10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guide lines in consultation with the State Forest Department. Total 1591 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.Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding

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Corporate Environment Responsibility. The project proponent shall spend 2% of the project cost equivalent to Rs. 29 lacs towards the following CER activities:

S.No.	Activities	Environment Aspect	Cost (Rs. Lacs)	Timeline	
				Start Date	End Date
1.	a) Providing Interlocking Tiles In School Ground of the Following School's i) Govt. Elementary Smart School, Jaula Khud, ii) High Smart Secondary School, Jaula Khurd iii) Govt. Sr. Secondary School, Jeoli iv) Govt. Elementary School Basauli v) Govt. Senior Secondary School, Rani Majra	Infrastructure	11.5	After Grant Of Ec	Till 3 Years
	b) Installation of Solar panels (4 kW) in Govt. Elementary Smart School, jaula Khud and High Smart Secondary School, Jaula Khurd				
2.	Provide Benches and Tables For Students in The Following School's: i) Govt. Elementary Smart School, Jaula Khud, ii) High Smart Secondary School, Jaula Khurd iii) Govt. Sr. Secondary School, Jeoli iv) Govt. Elementary School Basauli v) Govt. Senior Secondary School, Rani Majra	Infrastructure	5	After Grant Of Ec	Till 3 Years
3	Upgradaton of Computer Section in The Following School's: i) Govt. Elementary Smart School, Jaula Khud, ii) High Smart Secondary School, Jaula Khurd iii) Govt. Sr. Secondary School, Jeoli iv) Govt. Elementary School Basauli v) Govt. Senior Secondary School, Rani Majra	Infrastructure	7	After Grant Of Ec	Till 3 Years
4	Tree Plantation in Nearby Villages Like Jaula Khurd, Rani Majra, Jeoli etc.	Plantation	2	After Grant Of Ec	Till 3 Years
Total			29		

The amount to be spent on CER activities shall be proportionate to the amount spent on project & such activities shall run parallel to the project execution. All the activities must be completed with the completion of the project

- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus

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

- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report. The project proponent shall adhere to the commitments made in the Environment Management Plan and shall spend minimum amount of Rs. 164.03 lacs as a Capital expenditure and Rs. 27.2 lacs per annum as recurring expenditure as proposed in the EMP as under:

Sr No.	Particulars	Existing Capital Cost (lacs)	Recurring Cost (in lacs)	Proposed Capital Cost (lacs)	Recurring Cost (in lacs)
1	Air /Noise pollution control	8.0	3.0	15.0	5.0
2	Water Pollution Control	49.53	5.0	57.0	5.0
3	Green belt	0.5	0.2	4.0	2.0
4	Occupational Health	2.0	1.0	4.0	2.0
5	Environmental Monitoring	10.0	1.0	10.0	1.0
6	Hazardous waste disposal	2.0	1.0	2.0	1.0
Total		72.03	11.2	92.0	16.0

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

IX Validity of Environmental Clearance.

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

X. 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, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- viii. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- ix. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- x. The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production/ operation by the project.

- xi. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- xii. The project proponent shall abide by all the commitments and recommendations made in the EIA /EMP report, commitment made during Public Hearing and also that during their presentation to the SEAC and SEIAA.
- xiii. No further expansion or modifications in the 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.

ADDITIONAL CONDITIONS:

- i. The project proponent shall provide effluent treatment systems for the high TDS stream with MEE as proposed. The treated water will be used in the process for core/non-core activities within their premises to achieve the Zero Liquid Discharge.
- ii. To achieve the Zero Liquid Discharge, wastewater generated from different industrial operations should be properly collected, treated to the prescribed standards and then recycled or reused for the identified uses.
- iii. The project proponent shall provide septic tank of adequate capacity for the treatment of domestic effluent / sewage and shall utilize whole of this treated effluent for horticulture, plantation and green area.

- iv. The project proponent shall make necessary arrangements for the recovery and reuse of steam condensate resulting from the indirect steam applications and shall not allow to discharge such effluents into drain.
- v. The project proponent shall provide advanced scrubbing systems with proper neutralizing media to handle the acidic/alkaline emissions from storage, handling & processing activities. Wherever required, packed bed scrubbers will also be provided. The suction and scrubbing systems shall also be designed to handle the inherent odours from such units.
- vi. The project proponent shall provide the Air Pollution Control Devices as proposed by the PPCB to control the emissions generated from the boiler within the prescribed parameter.
- vii. Artificial Rain Water recharging/rainwater harvesting shall be carried out as required by CGWA. However, recharging structures shall not be provided within the plant premises to avoid any intentional or unintentional discharge of trade or domestic effluent.
- viii.** The project proponent shall practice rainwater harvesting to maximum possible extent. For this 2 village ponds having volume @ 10,000 m³ and 12,800m³, located at Village Jaulakhurd, Tehsil Derabassi & District Mohali respectively shall be adopted for desilting to recharge the rainwater. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytorid plants trench (designed based on the technology developed by CSIR-NEERI's) divided in different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to purification of water and collected into pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.

4.0 Deliberations during the 172nd meeting of SEIAA held on 12.10.2020.

The meeting was attended by Sh. Navneet Gupta, Managing Director of the company through Video Conference and Dr. S.K Yadav, Chief Manager, M/s Wolkem India Limited, Udaipur through video conference.

Before allowing the presentation, to a query of SEIAA regarding the applicability of environmental clearance as per the EIA Notification, 1994 for the existing unit established in the year 2001, the Environmental consultant of the promoter the company informed that while granting the TORs by MoEF, same EDS was raised on 23.04.2019 and reply was submitted to the Ministry to the effect that EC to the existing unit was not applicable being a small formulation unit. After considering the reply, the Ministry issued the Standard TORs to the project.

SEIAA was not satisfied with the reply of the project proponent.

After detailed deliberations, SEIAA decided to defer the case and ask the project proponent to submit a detailed reply supported by the documents to prove his contention that the provisions of EIA Notification, 1994 were not applicable to their unit when it was initially established in 2001 and also later on when expansion was done in 2017, EIA notification 14.09.2006 as amended from time to time, was not applicable for the manufacture of drugs being/was being manufactured in its existing unit.

Item No 172.03: Application for obtaining TOR under EIA notification dated 14.09.2006 for mining of minor minerals from river bed in the village ParjianBiharipur, Tehsil – Jagron, District Ludhiana, Punjab submitted by M/s Mahadev Enclave Private Limited. (Proposal No. SIA/PB/MIN/53311/2020)

Facts of the case are as under:

M/s Mahadev Enclave Private Limited has applied for obtaining TOR under EIA notification dated 14.09.2006 for mining of minor minerals (Sand) from river bed in the revenue estate of village Parjian Biharipur, Tehsil – Jagron, District Ludhiana, Punjab on 23.05.2020. The project is covered under S.No. 1(a) of the Schedule appended to the said Notification.

Further, the said case was forwarded by SEIAA to SEAC on 14/07/2020 after scrutiny of the application and the updated status of the documents attached with the application is as under

1.0 Status of documents attached with the application

(A) General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	M/s Mahadev Enclave Private Limited B-37 Ayodhaya Marg, Hanuman Nagar, Jaipur, Rajasthan +91 9780625432 avnit.kaushal@gmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	Eco Laboratories & Consultants Pvt. Ltd. 9814003103, 0172461622 consulteco@yahoo.com

(B) Details of the Documents

The project proponent submitted all the requisite documents as per the checklist of the mining case along with Form-02. The hard copy submitted by the project proponent was taken on record.

2.0 Deliberations during 191st meeting of SEAC held on 24.07.2020

The case was considered by SEAC in its 191st meeting held on 24.07.2020 and the same was attended by the following on behalf of the project proponent:

- (i) Sh. Manoj Kumar, Authorised signatory, on behalf of the project proponent.
- (ii) Ms. Simran Kaur, EIA coordinator, M/s Eco Laboratories and Consultants Pvt. Ltd., Mohali, Environment Consultant of the promoter company.

SEAC allowed the project proponent to present the salient features of the project and the Environment consultant of the promoter company presented the same as under:

S.No.	Item	Details		
1.	Online Proposal No.	SIA/PB/MIN/53311/2020		
2.	Project Name & Location	Sand Mining Project Village- ParjianBiharipur, Tehsil- Jagron, District- Ludhiana, Punjab by M/s Mahadev Enclave Private Limited		
3.	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals		
4.	Details of Mining Lease			
	i) Mineral (s) to be mined	Sand		
	ii) Capacity of Mine	5,34,852 TPA		
	iii) Mining Lease Area	37.0 Ha		
	iv) Details Letter of Intent (LOI)/E-Auction issued by the State Govt.	Memo No. MDM/Pb/E-Auction/2019 2231 Date of Issue: 30/05/2019 Validity of LOI: NA		
5.	Hadbast No.	181		
6.	Land Khasra No. & their consent details			
	Sr No	Type	Khasra No.	Consent details
	1	Govt. Land	-	-
	2	Private Land	24//23, 24, 25, 31//8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 32//1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25,33//4, 5, 6, 7, 11,12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25,34//22, 23,35//1,2, 36//19,22,37//1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25,	Land NOC from owners submitted.
7.	Latitude & Longitude			
	PIT 1			
	Pillar No.	Latitude		Longitude
	1	30°58'25.12"N		75°26'44.21"E
	2	30°58'25.14"N		75°26'51.62"E

3	30°58'23.25"N	75°26'51.76"E
4	30°58'23.30"N	75°26'56.72"E
5	30°58'27.09"N	75°26'56.80"E
6	30°58'27.16"N	75°27'1.89"E
7	30°58'28.87"N	75°27'1.86"E
8	30°58'29.00"N	75°27'9.39"E
9	30°58'23.36"N	75°27'9.39"E
10	30°58'23.25"N	75°27'16.88"E
11	30°58'27.07"N	75°27'17.06"E
12	30°58'27.15"N	75°27'21.98"E
13	30°58'17.37"N	75°27'22.08"E
14	30°58'17.05"N	75°27'9.56"E
15	30°58'7.51"N	75°27'9.36"E
16	30°58'7.63"N	75°26'59.31"E
17	30°58'9.69"N	75°26'59.32"E
18	30°58'9.56"N	75°26'56.80"E
19	30°58'17.15"N	75°26'56.76"E
20	30°58'17.40"N	75°26'44.08"E
PIT II		
1	30°58'19.24"N	75°27'24.65"E
2	30°58'19.30"N	75°27'27.24"E
3	30°58'16.84"N	75°27'27.61"E
4	30°58'16.81"N	75°27'27.22"E
5	30°58'15.48"N	75°27'27.12"E
6	30°58'15.43"N	75°27'22.07"E
PIT III		
1	30°58'11.32"N	75°27'11.95"E
2	30°58'11.34"N	75°27'14.46"E
3	30°58'7.51"N	75°27'14.46"E
4	30°58'7.52"N	75°27'11.99"E
8.	Whether the project attracts the General Condition.	No protected area/critically polluted area/ Eco-sensitive area/inter-state/ UT Boundaries and International Boundary/ Severely Polluted Area falls within 5 km radius of the project site. Thus, general conditions are not applicable.
9.	Does the project involve diversion of forest land? If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof	No. Letter from DFO Ludhiana has been obtained vide letter No.542 dated 03.06.2020.
10.	Does the project fall within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary? If yes, Status of NOC. If No, If No, submit documentary proof	No wildlife sanctuary/bird sanctuary falls within 10 km radius of the project site. As per the Google Map submit by the project proponent the Harike Bird Sanctuary falls at a distance of 50.16 KM.
11.	Land requirement for the project	Prior to the project proposal

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		Sr No.	Ownership pattern	Area in Ha.
		i)	Forest Land	-
		ii)	Private land	37.0
		iii)	Government land	-
		iv)	Revenue land	-
		v)	Other land	-
		vi)	Total land	37.0
Present Land use Break Up				
Sr No.	Land use	Area in Ha.		
i)	Agriculture Area	-		
ii)	Waste/Barren Area	-		
iii)	Grazing/community Area	-		
iv)	Surface water Bodies	-		
v)	Other(Specify)	37.0		
12.	Cost of the project	Rs. 4.47 Crores		
13.	Environmental Clearance. Fee details	Rs. 18,500/- Vide NEFT No. 5038781085 Dated 12.05.2020		
14.	Details of Final District Survey Report	Approved by:- Not Approved Mining Lease Area: 37.0 Ha. Mining Quantity: 5,34,852 TPA Mining Depth: 1 m		
15.	Details of visit report of Sub Divisional Level Committee	Not submitted		
16.	Details of Mining Plan	Approved by:-State Geologist (Department of Mines and Geology, Punjab) Approval Letter No.:Glg/Pb/M.P./2020/ParjianBiharipur/309 Date of Approval: 11.03.2020 Approved Mining Lease Area: 37.0Ha. Approved Mining Quantity: 5,34,852 TPA Depth of Mining (m): 1 m		
17.	Demarcation report of mining site	Date of demarcation: - 15.10.2019 No.s of Burjis made: - Nil Photographs submitted: Yes		
18.	Workers (when fully operational)	40 Persons.		
19.	Water Requirements & source	Domestic: 1.60 KLD Dust Suppression: 1.50 KLD Total: 3.10 KLD Ground water/Others: Source is water tanker .		
20.	Waste water generation, Treatment & its Disposal	i) Quantity of Waste water :1.2 KLD (80% of water requirement) ii) Treatment Method: Septic Tank iii) Mode of Disposal: Plantation purpose		
21.	Solid waste generation and its disposal	Solid waste @8kg /day will be generated which will be disposed to the dump site of the nearest village.		
22.	Green Belt Development Plan including no. of trees to be planted & its species.	Will be submitted at the time of submission EIA/EMP report.		

23.	Environment Management Plan along with Budgetary breakup and responsibility to implement	Will be submitted at the time of submission EIA/EMP report.
24.	<p>CER activities along with budgetary break-up and responsibility to implement Mr. Kartik Rathi (Director) of M/s. Mahadev Enclave Private Limited will be responsible for implementation of Corporate Environmental Responsibility (CER). As the project cost is Rs. 4.47 Crores; thus, Rs. 8.94 Lacs have been reserved for CER activities as per Office Memorandum of CER dated 01.05.2018. It was proposed to spent on the followings: -</p> <ul style="list-style-type: none"> i. Rs. 6.50 lac for providing drinking water facility, Toilets, Furniture and maintenance of school building in Government Primary School, in village Gounsival, Punjab ii. Rs. 2.44 lac for Maintenance of Transportation route connecting Project site 	
25.	<p>Other important facts</p> <ul style="list-style-type: none"> i) During the lease period, the deposit will be worked from the top surface to 3 m below ground level or above ground water table, which ever comes first. ii) No court case/litigation is pending before any court of Law against the project and/or land in which the project is proposed to be set up. iii) All mitigation measures for each activity to be undertaken during the mining operation to minimize adverse environmental impacts as recommended in the sand mining guidelines, 2016 & Enforcement & Monitoring Guidelines for Sand Mining, 2020. iv) Compliance with various environmental regulations shall be ensured. v) Mining will be carried out as per the terms and conditions of the Auction notice no MDM/Pb/E-auction/2019/2231 dated 30.05.2019 issued by Department of Mines & Geology, Government of Punjab. vi) Extent of Mechanization The mining shall be performed using a semi-mechanized method as per approved mine plan and Punjab Minor Mineral rules 2013. vii) Benefits of Semi mechanized method Semi mechanized method, involving minimal use of machinery and optimal no. of workers if allowed can provide the following benefits: <ul style="list-style-type: none"> a. Reduced duration of exposure to negative impacts of mining. b. Reduced production of sewage and solid waste at the project site to be treated. c. Reduced nuisance to the villagers. d. Feasibility to extract the required quantity and supply raw material to market to curb black marketing of minor minerals and support to the construction industry in the region. e. Reduced social menace which may be caused due to large no. of laborers, in case of completely manual operation. viii) The operation will be done only from sunrise to sunset hence there will be no power requirement for the project at the site. ix) An undertaking has been submitted to the effect that no Cluster formation of mining site exists as no other mining site falls within a radius of 500 m from the periphery of the proposed site. 	

SEAC asked the project proponent and his Environmental Consultant to clarify the following observations to which he replied as under: -

Sr. No.	Observations	Reply submitted by the project proponent and his Environmental Consultant
1.	Whether Final District Survey Report (DSR) has been approved?	The project proponent intimated that the DSR has been revised by the DEIAA. However, no formal letter has been issued by the DC, Ludhiana to the Mining Department in this regard. Further, Sh. Paras Mahajan, Assistant Geologist informed the committee that the earlier DSR was having the name of this site. As such, no where it has been specified that the DSR should be mentioning the Khasra numbers. Thus, the older DSR be accepted for issuing of ToRs to the project proponent. Sh. Manoj Bansal, Executive Engineer, Department of Mines submitted a copy of the revised DSR signed by the Executive Engineer, Department of Mines, Ferozepur. He assured that the revised DSR letter will be obtained from DC, Ludhiana at the earliest in this regard. He also intimated the committee that the revised DSR had been uploaded by the DC Ludhiana on his website, which was checked online.
2.	Whether permission from DFO has been obtained?	The project proponent submitted that the permission has been obtained from the DFO Ludhiana vide letter no. 542 dated 30.06.2020 and showed the same to the committee.
3.	Whether the report from Sub Divisional Committee has been obtained regarding the suitability of the site for mining?	The project proponent showed a copy of the Sub Divisional Committee regarding the suitability of the site. However, the said report was not bearing any date. To this observation, the project proponent intimated that the e-Auction of the mines is carried out only after a report from the Sub Divisional Committee and since the auction has already been carried out, it would be possible only after the proper report from the Sub Divisional Committee. SEAC agreed to the same.
4.	The project proponent is required to get the	The project proponent agreed to the same.

	hydrogeological survey of the existing water level done and also required to submit the impact on the water level regime due to the project. This report is required to be submitted at the time of submission of the EIA report.	
5.	The project proponent is required to submit a report regarding the preservation of topsoil excavated during the mining process at the time of submission of the EIA report.	The project proponent agreed to the same.

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

3.0 Recommendation of SEAC

After deliberations, SEAC decided to forward the application of the project proponent to SEIAA with the recommendationsto issue Terms of Reference for mining of minor minerals (Sand) on river bed located in the revenue estate of village Parjian Biharipur, Tehsil Jagraon, District Ludhiana, Punjab submitted by M/s Mahadev Enclave Private Limited, as per Annexure-I of the proceedings and the following additional ToRs:

1. The project proponent shall submit the revised approved DSR endorsed by the DC, Ludhiana mentioning the Khasra Numbers of the site at the time of submission of the EIA report.
2. The project proponent is required to get the hydrogeological survey of the existing water level done and to submit the impact on the water level regime due to the project. This report is required to be submitted at the time of submission of the EIA report.
3. The project proponent is required to submit a report regarding the preservation of top soil excavated during the mining process at the time of submission of the EIA report.
4. The project proponent shall submit the route plan for transporting the minor minerals from the project site. The vehicles should not pass through the river bed.

4.0 Deliberations during 168th meeting of SEIAA held on 07.08.2020

The case was placed before in its 168th meeting held on 07.08.2020 and the same was attended by the following: -

1. Sh. Manoj Kumar, Authorized Signatory of the promoter company.
2. Ms. Simran Kaur, EIA coordinator, M/s Eco Laboratories Pvt. Ltd. Mohali

Before allowing the presentation to the EIA coordinator, SEIAA observed that some of the Khasranos mentioned in the agenda note are shown to be owned by private persons. However, as per the copies of Jamabandi attached, the same belongs to the Central Govt.

SEIAA also perused the KML file attached online and observed that the mining site has not been marked over it. However, when the EIA consultant presented another file, it was observed that most of the Khasra nos. of the mining site fall in the in stream of the river.

After detailed deliberations, SEIAA decided as under:

- i) Case be remanded to SEAC for re-examination w.r.t ownership of the land, consent of the owners of the land, the area falling in the instream of the river and calculation of the production capacity of Mine.
- ii) Environmental consultant be asked to upload the KML file of the mining site on the web portal and explain his position why the same has not been uploaded earlier.

In compliance with the decision taken at (i), case is placed before SEAC for re-examination.

5.0 Deliberations during 192nd meeting of SEIAA held on 07.08.2020

The case was considered by SEAC in its 192nd meeting held on 01.09.2020. The meeting was attended by the following on behalf of the project proponent:

- i) Sh. Manoj Kumar, Authorized Signatory, through Video Conference.
- ii) Ms. Simranjit Kaur Nagi, EIA Coordinator, M/s Eco Laboratories & Consultants Pvt. Ltd., Mohali, Environmental Consultant of the Project Proponent.

SEAC observed that SEIAA has remanded back the case subject to certain queries which are given as under:

- i) Case be remanded to SEAC for re-examination w.r.t ownership of the land, consent of the owners of the land, the area falling in the instream of the river and calculation of the production capacity of Mine.
- ii) Environmental consultant be asked to upload the KML file of the mining site on the web portal and explain his position why the same has not been uploaded earlier.

SEAC observed that the project needs to be examined thoroughly and due to paucity of time, SEAC decided to defer the matter and decided that the matter shall be placed in the next meeting of the Committee.

6.0 Deliberations during 193rd meeting of SEAC held on 26.09.2020

The case was considered by SEAC in its 193rd meeting held on 26.09.2020 and the same was attended by the following on behalf of the project proponent:

- (i) Sh. Deepak Kumar on behalf of the project proponent.
- (ii) Ms. Simran Kaur, EIA coordinator, M/s Eco Laboratories and Consultants Pvt. Ltd., Mohali, Environment Consultant of the promoter company.

To a query of ownership of the land, consent of the owners of the land, the area falling in the in stream of the river and calculation of the production capacity of Mine, the Environment consultant of the promoter company submitted that Khasra No. 24//23, 24, 25, 33//4, 5, 6,12, 37//8, 9, 10,12,25 belongs to Central Government for which the custodian is mining department. The remaining Khasra Nos belongs to Private Individuals. Khasra No. 31//10,11,12, 18,19,20, 21,22,23,24 i.e. approx. 4.0 Ha. of land out of the total area of 37.0 Ha. falls under the instream of the river and no mining will be done in this area. The detail of the calculation of the production capacity after deduction of the 4.0 ha area is calculated as under:-

- | | |
|---------------------------------------|--------------------------------------|
| (i) Total mineable area considered is | 3,30,156 sq.m. (33.0 Ha.) |
| (ii) Mineable Reserve (tonnes/year) : | Mineable Area * Depth * Bulk Density |
| | = 3,30,156 x1x1.8 |
| (iii) Mineable Reserve | = 5,94,280 TPA |
| (iv) Recoverable Mineable Reserves | = 5,34,852 TPA |
| (90% of Mineable Reserve) | |

To another query, it was informed that earlier, inadvertently they have uploaded the kml file of single point of Parjian Biharipur on the web portal but as asked by SEIAA in the 168th meeting held on 07.08.2020, now all the pits have been merged in single kml file and submitted to SEAC. A copy of the same was taken on record by the SEAC.

7.0 Recommendation of SEAC

After detail deliberations, SEAC decided to forward the application of the project proponent to SEIAA with the recommendation to issue Terms of Reference for mining of minor minerals (Sand) @ 5,34,582 TPA from 33 ha minable area on river bed located in the revenue estate of village Parjian Biharipur, Tehsil Jagraon, District Ludhiana, Punjab submitted by M/s Mahadev Enclave Private Limited, as under: -

Standard Terms of Reference (TOR) for Mining Project

- 1) Submit duly filled checklist with the application of environmental clearance.
- 2) Deposit the requisite fee as per Notification No. 10/167/2013-STE(5)/1510178 dated 27.06.2019 issued by the Govt. of Punjab, Department of Science, Technology, and Environment
- 3) Project Proponent is required to conduct a public hearing in light of the OM dated 12.12.2018 issued by MoEF. The draft EIA-EMP report shall be submitted to the Punjab Pollution Control Board of the concerned State for the conduct of a Public Hearing. The PPCB 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.
- 4) Submission of Final District survey report, containing apart from other details as mentioned in the guidelines of 2016, specifically including the following points:
 - a) Recommendation regarding Environmentally safe depth of mining, a safe distance from banks and suitability of site for mining or prohibition thereof, duly signed by the members of the Sub Divisional Committee comprising of Sub-Divisional Magistrate, Officers from Irrigation Department, State Pollution Control Board or Committee, Forest department, Geology or mining officer.
 - b) Replenishment study for the river bed cases.
 - 5) No use of semi-mechanized/mechanized method shall be allowed as Standard EC conditions provided in the Guidelines, 2016 provided that manual method of mining shall be preferred over any other method.
 - 6) The Project proponent shall provide the exact coordinates of all the corners of the site and the shortest distance of the mining site from the followings: -
 - a. Protected area notified under the Wildlife (Protection) Act, 1972.
 - b. Critically Polluted areas as identified by the Central Pollution Control Board from time to time,
 - c. Eco-sensitive areas as notified under section 3 of the Environment (Protection) Act, 1986,
 - d. Inter-State boundaries and international boundaries.
 - 5) Submit a copy of visit report of Sub Divisional committee comprising of Sub-Divisional Magistrate, Officers from Irrigation Department, State Pollution Control Board or Committee, Forest department, Geology or mining officer indicating the recommendation regarding the Environmentally safe depth of mining, a safe distance from banks and suitability of the site for mining or prohibition thereof as per the Sustainable Sand Mining Management Guidelines, (SSMMG)-2016 issued by MOEF&CC.
 - 6) Demarcation of the mining site in the presence of the Revenue officer, Mining officer, Lambardar, project proponent/ contractor, owner of the land and owners of the adjoining land and submission of the demarcation report duly signed by them.
 - 9) Submit complete transportation plan giving detailed procedure (details of route plan to be followed by trucks transporting minor minerals with traffic volume data etc.)
 - 10) Submit a copy of ownership of land such as a copy of the latest jamabandi and consent of all the owner of the land.
 - 11) A copy of Mining Plan dully approved by the State Geologist
 - 12) Submit the contour plan showing river bed level, water level and present surface levels at various cross-sections etc.
 - 13) Red line to be marked on the x-sections in case riverbed mining.
 - 14) Submit 1.0 Km radius map of the area from the periphery of the project site clearly indicating the physical features.
 - 15) Submit an undertaking to the effect that there is no other mine within 500 m. radius from the periphery of this site.

- 16) Submit photographs of the mining site taken from all the four sides mentioning the coordinates of the project.
- 17) Mining layout plan showing key distances of the mining site from the various features such as river bank, active channels, bundh and other structures in the vicinity, if any, drawn on portion of 'Aks Sajra' of the mining site, so as to ensure that minimum statutory distances are maintained. The route map to be followed should also be marked on the layout plan.
- 18) Submit Corporate Environment Responsibility (CER) Plan as per the OM dated 01.05.2018
- 19) The project proponent is required to get the hydrogeological survey of the existing water level done and to submit the impact on the water level regime due to the project. This report is required to be submitted at the time of submission of the EIA report.
- 20) The project proponent is required to submit a report regarding the preservation of topsoil excavated during the mining process at the time of submission of the EIA report.
- 21) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 22) Submit a copy of the document in support of the fact that the Proponent is the rightful lessee of the mine such as letter of Intent (LOI) from the State government /Allotment letter of mining site etc.
- 23) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 24) All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 25) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating a geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 26) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 27) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelled out in the EIA Report with a description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system

of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stake holders at large, may also be detailed in the proposed safeguard measures in each case should also be provided.

- 28) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining should be detailed. The proposed safeguard measures in each case should also be provided.
- 29) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine/leaseperiod.
- 30) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post-operational phases and submitted. Impact, if any, of change of land use should be given.
- 31) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 32) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 33) Status of forestry clearance for the broken-up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 34) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 35) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 36) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 37) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance,

- as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 38) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 39) Proximity to Areas declared as 'Critically Polluted' or the Project areas attracting court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.
- 40) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
- 41) One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season); December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant down wind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
- 42) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modelling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 43) The water requirement for the Project, its availability, source and zone should

- be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 44) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
 - 45) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
 - 46) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
 - 47) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
 - 48) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be.
 - 49) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and BGL. A schematic diagram may also be provided for the same.
 - 50) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commensurate of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
 - 51) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
 - 52) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
 - 53) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the

EIA report.

- 54) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelled out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project-specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 55) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 56) Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 57) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 58) Public Hearing points raised and commitment of the Project Proponent on the same along with time-bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 59) Submit an undertaking to the effect that no litigation/court case is pending before any court of law against the project and/or on land in which mining is to be carried out else submit the details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 60) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 61) A Disaster Management Plan shall be prepared and included in the EIA/EMP Report.
- 62) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 63) Besides the above, the below mentioned general points are also to be followed:-
 - i) The EIA document shall be printed on both sides, as far as possible.
 - ii) All documents to be properly referenced with index and continuous page numbering.
 - iii) The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
 - iv) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - v) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
 - vi) Where the documents provided are in a language other than English, an English translation should be provided.
 - vii) The Questionnaire for environmental appraisal of mining projects as devised

earlier by the Ministry shall also be filled and submitted.

- viii) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J- 11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - ix) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
 - x) As per the circular no. J-11011/618/2010-IA. II (I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
 - xi) The EIA report should also include
 - (i) surface plan of the area indicating contours of main topographic features, drainage and mining area,
 - (ii) geological maps and sections and
 - (iii) Sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
 - xii) Submit a copy of the presentation in PPT format along with the application.
- 64) 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.

Additional TORs

1. The project proponent shall submit the revised approved DSR endorsed by the DC, Ludhiana mentioning the Khasra Numbers of the site at the time of submission of the EIA report.
2. The project proponent is required to get the hydrogeological survey of the existing water level done and to submit the impact on the water level regime due to the project. This report is required to be submitted at the time of submission of the EIA report.
3. The project proponent is required to submit a report regarding the preservation of topsoil excavated during the mining process at the time of submission of the EIA report.
4. The project proponent shall submit the route plan for transporting the minor minerals from the project site. The vehicles should not pass through the river bed.

8.0 Deliberations during 172nd meeting of SEIAA held on 12.10.2020.

The case was considered by SEIAA in its 172nd meeting held on 12.10.2020 and the same was attended by the following through video conference:

- (i) Sh. Manoj Bansal, Executive Engineer, Department of Mines & Geology.
- (ii) Ms. Simran Kaur, EIA coordinator, M/s Eco Laboratories and Consultants Pvt. Ltd., Mohali, Environment Consultant of the promoter company.

SEIAA allowed the environmental consultant of the promoter company to present the reply to the earlier raised observations and she presented the same.

After presentation, to a query of SEIAA regarding the consent of the land belonging to the Central Govt, Executive Engineer, Department of Mines & Geology replied that the auction has been done after taking all necessary approvals. The department allows the successful bidder to do the mining on the auctioned land of the Central Government after paying compensation to the Kashtkar or department before operating the site. NOC from the Kashtkar of Central Government land has already been obtained and submitted.

After detailed deliberations, SEIAA decided to accept the recommendation of SEAC and issue TORs as proposed by SEAC with the following additional TORs:

Additional TORs:

- i) Submit a copy of the document to prove the contention that the mining department is the custodian of minerals in the land belonging to Central Government and can auction the mining of minerals from the said land.

Item No.172.04: Application for obtaining Environmental clearance under EIA notification dated 14.09.2006 for setting up new API Bulk Drug Pharmaceutical manufacturing unit at Village-Faridpur, Tehsil- Rajpura, District- Patiala, Punjab, by “M/s Biovid Labs Pharmaceuticals Pvt. Ltd.” (Proposal no SIA/PB/IND2/165111/2020)

Facts of the case are as under:

1.0 Background

The project proponent submitted an application for obtaining Environmental Clearance under EIA Notification, 2006 for setting up a new API Bulk Drug Pharmaceutical manufacturing unit.

As per EIA Notification, 14.09.2006 the project falls under “A” category but now, MOEF&CC has issued OM vide F.No.22-25/2020-IA.IIIII dated 13.04.2020 which states that “proposal or activities in respect of Active Pharmaceuticals Ingredients (API) received upto 30.09.2020 shall be appraised as “B2” projects to ensure drug availability or production to reduce the impact of Novel Coronavirus.

2.0 Present Case

The project proponent proposes to set up a new API Bulk Drug Pharmaceutical manufacturing unit with a production capacity of 6000 TPA. The project proponent has submitted the EIA report. Further, the Project proponent has deposited the requisite EC

processing fee of Rs.55,000/- through NEFT by UTR no. KKBKH20201867299 dated 19.07.2020.

EIA report was scrutinized and EDS was raised on 05.08.2020, to which the project proponent replied online on 26.08.2020 and the details of the same is given as under:-

Sr. No.	EDS raised on 05.08.2020	Reply to the EDS submitted on 26.08.2020
1	In form 1, under heading basic information 2(h), Copy of documents in support of the competence/authority of the person making this application	Submitted
2	In form 1, under the heading basic information 5(d), Copy of Supporting Document regarding exemption from public consultation not uploaded. a. Please upload the copy	Submitted
3.	In form 1, under the heading Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality in activity no. 1(1.15) - Facilities for treatment or disposal of solid waste or liquid effluents, <i>PP/Consultant has not mentioned about proposed disposal Quantity nor about its agreement, who will collect the solid waste in form 1</i> a. Please update the above details & upload the same on Form 1	PP submitted that i) in Construction Phase: Left over cement mortars, cement concrete blocks, aggregate, sand and other inorganic material (approx 50 Kg/day) will be recycled and reused as granular sub-base (GSB) layer of pavement. Earth rendered surplus (20 Kg/day) from the excavation will be utilized in the embankment works. Domestic Waste (approx 15 Kg/day) will be use as manure after decomposition. ii) Operation Phase: Hazardous Waste: Used oil (0.4 TPA) will be sent to an authorized recycler; Organic residue (80.5 TPA) will be sent to TSDF, Nimbuan; Process Inorganic waste (64.8 TPA) will be sent to TSDF, Nimbuan; Spent carbon (85 TPA) will be sent to Incinerator; Discarded containers/barrels/liners contaminate with HW / chemicals (100 TPA) will be sent to an authorized recycler; MEE salt/ ETP sludge (1.2 TPA)

		<p>will be sent to TSDF, Nimbuan; Boiler Ash (28 TPA) will be used for Filling for low lying areas</p> <p>Liquid Effluents: Process wastewater (22.0 KLD) will be treated in MEE; Laboratory, Reactor Washing, Boiler/cooling tower Blow Down, RO Rejection (8.35 KLD), Domestic (1.8 KLD) will be treated in ETP.</p> <p>Agreement: They will make an agreement with TSDF site Nimbuan after grant of EC letter/ at the time of CTO.</p>
4.	<p>In form 1, under heading Use of Natural resources for construction or operation of the Project in activity no. 2 (2.6) - Energy including electricity and fuels (source, competing users) Unit: fuel (MT), Energy (MW),</p> <p><i>PP/Consultant has not mentioned about Quantity of fuel (MT), Energy (MW) etc of boiler in form 1,</i></p> <p>a. Please update the above details & upload the same on Form 1</p>	<p>PP submitted the following:</p> <p>Total Power requirement will be 700KW Source: PSPCL Punjab.</p> <p>1) DG Set: 300KVA capacity will be installed as power backup Fuel: Diesel: 0.1 MT/day</p> <p>2) Boiler: capacity of 4TPH Fuel: Briquettes/Woods: 2.0 MT/day</p>
5.	<p>In form 1, under heading Production of solid wastes during construction or operation or decommissioning (MT/month) in activity no. 4 (4.3 & 4.6) - Hazardous wastes (as per Hazardous Waste Management Rules),</p> <p><i>PP/Consultant has not mentioned about Quantity (MT/month) of Hazardous waste & Sewage sludge generation in form 1,</i></p> <p>a. Please update the above details & upload the same on Form 1</p>	<p>PP submitted the following:</p> <ul style="list-style-type: none"> ➤ Hazardous Waste: Used oil (0.4 TPA) will be sent to authorized recycler; Organic residue (80.5 TPA) will be sent to TSDF, Nimbuan; Process Inorganic waste (64.8 TPA) will be sent to TSDF, Nimbuan; Spent carbon (85 TPA) will be sent to Incinerator; Discarded containers/barrels / liners contaminate with HW / chemicals (100 TPA) will be sent to an authorized recycler; MEE salt/ETP sludge (1.2 TPA) will be sent to TSDF, Nimbuan; Boiler Ash (28 TPA) will be used for Filling for low lying areas ➤ Liquid Effluents: Process wastewater (22.0 KLD) will be treated in MEE; Laboratory, Reactor Washing, Boiler/cooling tower Blow Down, RO Rejection (8.35 KLD), Domestic (1.8 KLD) will be treated in ETP.

6.	<p>In form 1, under heading Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr) in activity no. 5 (5.1 & 5.2) - Emissions from combustion of fossil fuels from stationary/mobile sources and production processes (Acid Mist etc),</p> <p><i>PP/Consultant has not mentioned about Quantity (Kg/Hr) of Emissions from combustion of fossil fuels in form 1,</i></p> <p>a. Please update the above details & upload the same on Form 1</p>	<p>PP submitted that the main pollutant generated during the combustion of fossil fuels will be PM, CO, NO_x and SO₂ and pollutants from the process will be Acid mist. However, They can assure that all the parameters will be within the prescribed standard limit by SPCB/CPCB.</p>
7.	<p>PP/Consultant has submitted the Application dated 22.07.2020 for issuance of EC under category B2 without mentioning the details of major documents being submitted along with the application which are required to be submitted with category B2 projects as per MoEF guidelines.</p> <p>Further, the application has been submitted with Blurred signatures of PP which are not readable.</p> <p>a. Please update the above details & upload the same on Form 1</p>	<p>Submitted</p>
8.	<p>PP/Consultant has submitted the layout plan which is not readable with the following deficiencies:</p> <ol style="list-style-type: none"> 1. Mentioned wrong Green area as around (25%) i.e 1091 sqm 2. Not provided green plantation along the periphery of the boundary 3. Not marked all the utilities in the layout plan as per checklist 4. Provide proper legend for all utilities 	<p>Submitted</p>

	a. Please update the above details & upload the same on Form 1	
9.	<p>PP/Consultant has submitted the master plan of SAS Nagar showing project site falls under agriculture land and at page no. 24 of PFR it has been mentioned that land has been converted to industrial use but has not provided documentary proof of Change of Land Use from competent authority.</p> <p>a. Please update the above details & upload the same on Form 1</p>	PP submitted that Application for Change of Land Use from competent authority is under process. However, the land registration document mentioning the land as Industrial has been provided.
10.	<p>In PFR at page no. 18, under the heading compliance of Environmental Regulations, it has been mentioned that NOC/CTE has already been obtained for M/s Biovivid Lab but has not submitted/attached any documentary proof.</p> <p>a. Please update the above details & upload the same in PFR as well</p>	PP informed that NOC/CTE is inadvertently mentioned in Compliance with Environmental regulation. We will apply for CTE/CTO after getting EC
12.	Please submit revised CER activities as per MoEF&CC OM dated 01.05.2018, with works of infrastructure creation only.	Submitted
13.	<p>In PFR at page no. 165, approval of site from labour deptt. vide letter no. 5067 dated 22.12.2003 for M/s Emsons Organics Pvt. Ltd has been attached, which is a different unit, Kindly clarify the following details:</p> <p>1. Reason for shutting down the above unit</p> <p>2. Whether any litigation pending against above unit or to the new</p>	<p>PP informed that M/s Emsons Organics Pvt. Ltd is an existing unit. The unit is closed due to the non-viability of the project. The PP bought it under the liquidation process through court.</p> <p>The reason for closing off the unit is the non-viability of the project No litigation is pending against any one of them i.e Emsons / Biovivid Lab. We will apply for CTE/CTO after getting EC</p>

	<p><i>proposed unit (M/s Biovivid Lab) in same premises</i></p> <p>3. Valid NOC/CTE for starting the operation of M/s Biovivid Lab from competent authority</p> <p>a. Please update the above details & upload the same in PFR as well</p>																																									
14.	<p><i>As per Pre-feasibility report, it has been proposed to manufacture of various drugs with production capacity 6000 TPA.</i></p> <p>Please clarify that whether each these proposed drugs will be used for the ailments of Corona Virus as per MoEFCC OM dated 13.04.2020.</p>	PP informed that the product 'Ascorbic Acid' will be used for the ailments of Corona Virus.																																								
15.	Not submitted Rehabilitation & Resettlement (R&R) plan, please include it in the PFR as mentioned in MoEF circular dated 30.12.2010	Submitted																																								
16.	Please submit blockwise details of no. of trees to be planted in the proposed greenbelt area (1500 Trees to be planted @ 10000 Sqm area) in the following format:	<p>PP submitted the following details:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Descrip tion</th> <th>Area (m2)</th> <th>No. of plants to be planted</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>I</td> <td>150</td> <td>38</td> </tr> <tr> <td>2.</td> <td>II</td> <td>15</td> <td>4</td> </tr> <tr> <td>3.</td> <td>III</td> <td>85</td> <td>21</td> </tr> <tr> <td>4.</td> <td>IV</td> <td>10</td> <td>3</td> </tr> <tr> <td>5.</td> <td>V</td> <td>45</td> <td>11</td> </tr> <tr> <td>6.</td> <td>VI</td> <td>120</td> <td>30</td> </tr> <tr> <td>7.</td> <td>VII</td> <td>100</td> <td>25</td> </tr> <tr> <td>8.</td> <td>VIII</td> <td>861</td> <td>215</td> </tr> <tr> <td colspan="2">Total</td> <td>1388</td> <td>347</td> </tr> </tbody> </table>	S. No.	Descrip tion	Area (m2)	No. of plants to be planted	1.	I	150	38	2.	II	15	4	3.	III	85	21	4.	IV	10	3	5.	V	45	11	6.	VI	120	30	7.	VII	100	25	8.	VIII	861	215	Total		1388	347
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17.	Please ensure that the PFR being submitted should be as per the guidelines of MoEF circular no. J-11013/41/2006-IA.II (I) dated 30.12.2010	Submitted																																								

18.	<i>It has been observed that there are so many incompletions in the Form 1 & PFR submitted, the consultant is advised to ensure that the application should be complete in all respects and while submitting & uploading EDS reply, Please make necessary changes in the relevant documents online/offline as per the EDS reply as well.</i>	PP informed that the same has been revised and uploaded.
	a. Reason for submitting application with so many above shortcoming & mistakes	

Thereafter, the application for obtaining EC was accepted online on 21.09.2020.

Environmental Engineer, PPCB, RO, Patiala was requested vide email dated 05.08.2020 to send the report on the following points:-

- i) Construction/Installation status of the newly proposed project of the industry
- ii) Status of physical structures within 500 m radius of the site including the status of industries, if any
- iii) Status of Consent to Establish/NOC from PPCB for M/s Biovivid Labs Pharmaceuticals Pvt. Ltd.
- iv) Whether any direction passed by PPCB to M/s Emsons Organics Pvt. Ltd. (Old unit existed at the same site earlier) under the Water or Air Act due to which the unit was shut down.
- v) Validity details of last CTO issued under Air/Water Act to M/s Emsons Organics Pvt. Ltd.

Accordingly, Member Secretary, PPCB vide email dated 23.09.2020 has sent a copy of the letter dated 3590 dated 22.09.2020 to the effect that the industry was visited by its AEE of Regional Office, of the Board on 07.08.2020 and it was informed as under:-

Suitability of Site

The project proponent has proposed to establish this unit in the existing building of M/s Emson Organics Limited. This unit was earlier lying closed and Board had issued direction u/s 33-A of the Water Act, 1974 for not to restart its operations and the PSPCL authorities were directed not to release the power connection to the industry without the prior permission of the Board.

During the visit, it is observed that there is predominantly agriculture land around the unit and crop of Kharif season was standing in the fields. Since, the old industry M/s Emson Organics Limited, which was established in the year 2009, before the notification of Master Plan, Rajpura, therefore, a certificate regarding the location of industry in

designated/ approved industrial area is required from the Department of Town Planning Department as per provisions of notified Master Plan of Rajpura. For areas other than designated/ Industrial areas or for the areas where the master plan are yet not prepared or the site is outside the master plan of any city/ town, then the distance of the industry from municipal limits, lal lakir/phirni and residential area/ houses is to be verified by the revenues authorities such as DC/ADC/SDM. No such certificate is found attached with the present application. As such, no comments regarding the suitability of site provided by the Board at this stage.

Construction Phase

There was an existing building of M/s Emson Organics, Limited at the site having machinery in abandoned condition. The repair works of the old machinery installed in the premises was going on at the site. No new machinery has been installed by the promoter. The industry has proposed to sell/ obsolete entire machinery with advance new machinery.

Adequacy of pollution control proposals

As per the pre-feasibility report, the total water requirement will be 40 KLD. The industry will generate high and low TDS effluent @ 22 KLD and 8.35 KLD respectively. It has proposed to install a multiple-effect evaporator (MEE) followed by an Agitated Thin Film Dryer (ATFD) for the TDS effluent. Further, ETP consisting of physicochemical treatment followed by biological treatment and filters (Activated Carbon and Sand) is proposed for low TDS effluent. The Domestic effluent is also proposed to be treated through biological treatment in ETP. The permeate of the RO plant will be used in cooling tower and RO reject will be sent to the MEE plant for evaporation. The ETP treated water is proposed to be utilized in cooling towers and washing etc. The proposal is in line with the practice treatment technologies followed by such pharma units.

For the treatment of flue gas emission, the industry has proposed to provide multi-cyclone followed by wet scrubber as APCD with its 4 TPH wood/briquettes fired boiler. Further to it, the industry has proposed to provide packed bed scrubber for gaseous emissions and alkali scrubbers for acidic emissions. The line of treatment is principally acceptable.

2.0 Deliberations during the 193rd meeting of SEAC held on 26.09.2020

The meeting was attended by Sh. Mahesh Kumar Rohira, Director of the company and Sh. Sital Singh, M/s CPTL, Mohali. Environmental Consultant of the promoter company was allowed to make the presentation for proposal before SEAC as under:

Sr. No.	Description	Details
1.	Name of the project	M/s Biovid Labs Pharmaceutical (P) Limited Village- Faridpur, Tehsil- Rajpura, District- Patiala

2.	Online Proposal No.	SIA/PB/IND2/165111/2020																														
3.	Nature of project	EC for new project																														
4.	a) Category	As per S.O. 1223(E) dated: 27.03.2020, "All proposals for projects or activities in respect of Active Pharmaceutical Ingredients (API) received up to the 30th September 2020, shall be appraised as Category 'B2'																														
	b) Activity	5(f)																														
5.	Total Project Cost (In Crores)	Rs. 5.55 Crores																														
6.	Amount of EC Processing Fee deposited	Amount of Rs 55,500/- vide NEFT by UTR no. KKBKH20201867299 dated 19-07-2020.																														
7.	Co-ordinates	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Point</th> <th style="width: 35%;">Latitude</th> <th style="width: 35%;">Longitude</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>30°32' 06.84"N</td> <td>76°39' 22.20"E</td> <td></td> </tr> <tr> <td>B</td> <td>30°32' 06.93"N</td> <td>76°39' 25.32"E</td> <td></td> </tr> <tr> <td>C</td> <td>30°32' 09.99"N</td> <td>76°39' 23.95"E</td> <td></td> </tr> <tr> <td>D</td> <td>30°32' 09.98"N</td> <td>76°39' 23.34"E</td> <td></td> </tr> <tr> <td>E</td> <td>30°32' 08.42"N</td> <td>76°39' 22.88"E</td> <td></td> </tr> <tr> <td>F</td> <td>30°32' 08.42"N</td> <td>76°39' 22.22"E</td> <td></td> </tr> </tbody> </table>			Point	Latitude	Longitude		A	30°32' 06.84"N	76°39' 22.20"E		B	30°32' 06.93"N	76°39' 25.32"E		C	30°32' 09.99"N	76°39' 23.95"E		D	30°32' 09.98"N	76°39' 23.34"E		E	30°32' 08.42"N	76°39' 22.88"E		F	30°32' 08.42"N	76°39' 22.22"E	
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8.	Type of project land as per master plan	Agricultural land, However, Project Proponent has applied for CLU																														
9.	Details of the technology proposed for control of emissions & effluents generated from project	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">PARTICULARS</th> <th style="width: 20%;">CAPACITY</th> <th style="width: 45%;">TECHNOLOGY</th> </tr> </thead> <tbody> <tr> <td>Effluent Treatment Plant</td> <td>15m³/day</td> <td>MBBR Technology</td> </tr> <tr> <td>Evaporation of HTDS effluent</td> <td>25m³/day</td> <td>MEE/MVR Technology</td> </tr> <tr> <td>APCD</td> <td>----</td> <td>Multicyclone & scrubbers</td> </tr> <tr> <td>Incinerator</td> <td>200kg/day</td> <td>Pyrolysis Technology</td> </tr> </tbody> </table>			PARTICULARS	CAPACITY	TECHNOLOGY	Effluent Treatment Plant	15m ³ /day	MBBR Technology	Evaporation of HTDS effluent	25m ³ /day	MEE/MVR Technology	APCD	----	Multicyclone & scrubbers	Incinerator	200kg/day	Pyrolysis Technology													
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		6	Tank area	46.09	1.1
		7	Hazardous area	20.91	0.5
		TOTAL		4202.23 M ²	100%
11.	Raw material details & Quantity :				
	S.NO	Name of raw material	CONSUMPTIONS TPA	PHYSICAL STATE	MODE OF STORAGE
	1	2,6 dcp	840	Solid	Container
	2	Sodium methoxide	2184	Solid	Container
	3	Mono methyl chloro acetate	652.8	Liquid	Container
	4	Aniline	508.8	Liquid	
	5	Caustic potash	692.4	Solid	Container
	6	Chloro acetyl chloride	1274	Liquid	Container
	7	Activated carbon	42	Solid	Bags
	8	Dimethyl aniline	685	Liquid	Plastic Container
	9	Tertiary butyl alcohol	379	Solid	Plastic Container
	10	Soda ash	10.5	Solid	Container
	11	Diclofenac sodium	2052	Solid	Bags
	12.	formic acid	736	Liquid	PVC Container
	13.	methyline chloride	840	Liquid	Plastic Container
	14.	acetamide	70	Solid	Plastic Container
	15.	dimethyl di-chlorosilane (DMDCS)	1000	Liquid	Container
	16.	Iso propyl alcohol	2978	Liquid	Container
	17.	trimethyl amine	160	Gas	Cylinder
	18.	caustic solution	60	Liquid	Container
	19.	iso butyl benzene	93.3	Liquid	Container
	20.	PGCH	140		
	21.	Ethylene di chloride	258	Liquid	SS Tank
	22.	Aluminum chloride	115.7	Solid	SS Tank
	23.	Acetyl chloride	69.6	Liquid	
	24.	Monochloroacrctic acid	231	Liquid	Container
	25.	Sulphuric acid	169	Liquid	SS Tank
	26.	Ferric chloride		Solid	Container
	27.	Sodium metal	18.4	Solid	Container
	28.	Caustic lye	70.8	Solid	Container

29.	Sodium dichromate	59.3	Solid	Container
30.	Hexane	127.3	Liquid	Container
31.	Ofloxacin acid	315.2		
32.	N-methyl piperazine	232	Liquid	Container
33.	Levofloxacin acid	346.6		
34.	CMIC chloride	104.8	Solid	Plastic Container
35.	2-ethyl hexonate sodium salt	120	Solid	Container
36.	DICMIC chloride	52.3	Solid	Container
37.	O-chloro benzoic acid	66	Solid	Container
38.	2,3- xylidine	50	Liquid	Container
39.	Toluene	100	Liquid	Plastic Drum
40.	Dane salt	86	Solid	Drum
41.	Pivoly chloride	32.2	Liquid	Container
42.	Dma	22.2	Liquid	Container
43.	Tea	27.2		Container
44.	Methylene dichloride	310	Liquid	Plastic Container
45.	Hcl	99	Liquid	Thermo Plastic container
46.	Ammonia solution	70.4	Liquid	Container
47.	Diethyl amine	23	Liquid	Container
48.	Cyanocobalamine	90	Liquid	Container
49.	Dimethyl sulphate	60	Liquid	Container
50.	Sodium borohydride	90	Solid	Container
51.	Chloroform	1000	Liquid	Glass Container
52.	Fatty acid	666	Solid	Bags
53.	Glycerol	293	Liquid	Container
54.	Potassium hydroxide	0.4	Liquid	Plastic Container
55.			Solid	Plastic Container
56.	Mono glyceride	774	Solid	Bags
57.	Acetic anhydride	465	Liquid	SS Tank

	58.	Sodium acetate anhydrous	150		Bags
	59.	Ethanol	53	Liquid	Plastic Container
	60.	Acetic acid	69	Liquid	Plastic Container
	61.	Methanol	1095	Liquid	SS Tank
	62.	Ethyl acetate	1200	Liquid	Container
	63.	Ammonium hydroxide	245.5	Solid	Container
	64.	6-apa	346	Solid	Container
	65.	Acetone	1243	Liquid	Plastic Container
	Production details & Quantity:	Product Name		Total (6000 TPA)	
		Diclofenac Sodium		250	
		Diclofenac Potassium		250	
		Aceclofenac		325	
		Ibuprofen		350	
		Ofloxacin		300	
		Levofloxacin		225	
		Mefenamic Acid		300	
		Diclofenac Diethylamine		400	
		Citicoline		200	
		Ascorbic Acid		300	
		Methylcobamlin :(Vitamin B12)		100	
		Amoxicillin Trihydrate		200	
		Ampicillin Trihydrate		100	
		Cloxacillin Sodium		300	
		Dicloxcillin Sodium		300	
	Mono Glycerides		800		
	Acetem		800		
	Ethyl Acetate		500		
13.	Details of major productive machinery/plant:	Sr. No.	Name of the equipment	Capacity	
		1.	Boiler	4TPH	
		2.	Cooling Tower	350TR	
		3.	Chiller	120TR	
		4.	RO Plant	4KL/Hrs	
		5.	MEE	25KLD	
		6.	DG Sets	300KVA	

		7.	Incinerator	1Ton/day	
14.	Manpower requirement	30			
15.	Details of Emissions (After expansion)	S.no	Name of products	air pollution	
				Emissions	APCD
		1	Diclofenac Sodium, Diclofenac Potassium, Mefenamic Acid	HCl (Acid mist)	Alkali Scrubber
		2	Ibuprofen	HCl (Acid Mist)	Alkali Scrubber
		3	Ofloxacin, Levofloxacin	HF (Acid mist)	Alkali Scrubber
		4	Wood Fired Boiler	SPM	Multicyclone & water Scrubber
16.	Hazardous Waste Generation details and its disposal				
	Category	Type of hazardous	Quantity	Mode of disposal	
	5.1	Used oil	0.4TPA	Will be sent to authorized recycler	
	20.2	Organic residue	270.0TPA	Incineration	
	28.1	Process Inorganic waste	42.0TPA	TSDF Site Nimbuan	
	28.3	Spent carbon	43.3TPA	Incineration	
	33.1	Discarded containers/barrels/liners contaminate with HW/chemicals	100TPA	Will be sent to authorized recycler	
	35.3	MEE salt & ETP sludge	1.2TPA	TSDF Site Nimbuan	
	36.2	Boiler Ash	28.0TPA	Filling for low lying areas	
17.	Solid Waste generation and its mode of disposal				
	S.no	Name of products	Type of waste and generation per T/annum	Mode of disposal	
	1	Diclofenac Sodium	2.00 Charcoal	Incinerate	

	2	Diclofenac Potassium	2.00 Charcoal	Incinerate
	3	Aceclofenac	0	
	4	Ibuprofen	31.50	Incinerate
	5	Ofloxacin	0	
	6	Levofloxacin	0	
	7	Mefenamic Acid	7.8 Activated carbon	
	8	Diclofenac Diethylamine	NIL	
	9	Citicoline	NIL	
	10	Ascorbic Acid	NIL	
	11	Methylcobamlin (vitamin B12)	270 Organic residue	Incineration
	12	Amoxicillin Trihydrate	0	
	13	Ampicillin Trihydrate	0	
	14	Cloxacillin Sodium	2.7 Ammonium chloride 0.009	Process Inorganic waste will be sent to TSDF site Nimbuan
	15	Dicloxcillin Sodium	39.30 Ammonium chloride	
	16	Mono Glycerides	0	
	17	Acetem	0	
	18	Ethyl Acetate	0	
	TOTAL		355.3MTA	
18.	Waste water generation its disposal Arrangement in Operation Phase			
	S. no.	Description	Waste water generation	Treatment
	1	Process wastewater	22.0KLD	MEE
	2	Laboratory, Reactor Washing, Boiler/cooling tower Blow Down, RO Rejection	8.35KLD	ETP
	3	Domestic uses	1.80KLD	
	TOTAL		32.15KLD	

19.	Details of the block in which the project site is located as per CGWA guideline	Non-Notified block			
20.	Breakup of Water Requirements & its source in Operation Phase:	S. No.	Description	Requirement	
		Source Of Water –Ground Water			
		1	Process water	29.0KLD	
		2	Utilities	05.0KLD	
		3	Boiler	04.0KLD	
		4	Domestic uses	02.0KLD	
		Total		40.0KLD	
		Sources of water:			
		S.No.	Purposes	Source of water	
		1.	Domestic	Ground water	
		2.	Make-up water demand for cooling	Treated waste water	
		4.	Green area water demand	Treated waste water	
21.	Water balance chart for Summer, Rainy and Winter seasons	Submitted			
22.	Rain Water utilization proposal during monsoons	Submitted.			
23.	Blockwise details of no. of trees to be planted	S.No.	Description	Area (m2)	No. of plants to be planted
		1.	Green belt area- I	150	38
		2.	Green belt area- II	15	04
		3.	Green belt area- III	85	21
		4.	Green belt area- IV	10	03
		5.	Green belt area- V	45	11
		6.	Green belt area- VI	120	30

		7.	Green belt area-VII	100	25																
		8.	Green belt area-VIII	861	215																
		Total		1388	347																
24.	a. Energy requirements & savings: b. Energy saving measures to be adopted within industry:	<p>a. The details of the energy are given below:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Unit</th> <th>Consumption</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Power load</td> <td>KW</td> <td>700</td> </tr> </tbody> </table> <p>b. Energy saving measures to be adopted within the industry: Following Energy conservation methods shall be adopted: i) 20W CFL shall be used for each 40 W tubes for inter lighting. ii) Outer street lighting shall be completely on solar energy. Likely saving of energy will be as follows: -</p> <p>Load Distribution:</p> <table style="width: 100%;"> <tr> <td>1. Total Internal Lighting Load</td> <td>= 50 KW</td> </tr> <tr> <td>2. Outer Lighting Load</td> <td>= 20 KW</td> </tr> <tr> <td>3. Other Power load</td> <td>= 630 KW</td> </tr> <tr> <td style="text-align: center;">Total Load</td> <td>= 700 KW</td> </tr> </table> <p>Saving: By using 20 W LED against 40 W tube lights (50%) = 25 KW By using solar energy for outer Lighting (50%) = 10 KW TOTAL = 35 KW Percentage $(35/700 \times 100) = 5\%$</p>				S. No.	Description	Unit	Consumption	1.	Power load	KW	700	1. Total Internal Lighting Load	= 50 KW	2. Outer Lighting Load	= 20 KW	3. Other Power load	= 630 KW	Total Load	= 700 KW
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25.	EMP Budget details																				
	During Construction Phase																				
		Sr. No.	Particulars	Approx. Cost (Rs Lac)	Frequency)	Parameters Covered															
		1.	Ambient Air Monitoring	Rs 0.20	Every three Months	As per the new notification															
		2.	Noise Level Monitoring	Rs 0.10	Every three months	24 Hrs. Noise Level															
		3.	Treated Effluent Monitoring	Rs 0.60	Every month	pH, TSS, TDS, COD, BOD, O/G, Phenolic Compound, Ammonical Nitrogen & Bio-assay															
		4.	Drinking water	Rs 1.20	Every month	All as per BIS standard															
	During Operational Phase																				

Sr. No.	Particulars	Approx. Capital Cost (Lac)	Approx. Recurring Cost Annually (Lac)	Parameters Covered
1.	Multi-Cyclone & Scrubbers	Rs 25.0	Rs 2.5	SPM, Co ₂ , No _x , And Acid Mist
2.	Multi Effect Evaporator (Mee)	Rs 85.0	Rs 1.5	----
3.	Incinerator	Rs 50.0	Rs 1.5	SPM, Co, Acid Mist
4.	Effluent Treatment Plant	Rs 15.0	Rs 2.0	pH, Tss, Tds, Cod, Bod, O/G, Phenolic Compound, Ammonical Nitrogen & Bio-Assay
5.	Green Belt Development	Rs. 2.0	Rs.0.5	Saplings, Transportation, Fertilizers, Horticulturist Etc.
Total		Rs. 177.0	Rs 8.0	----

29	Details of revised CER activities :			
	DESCRIPTION	ACTIVITY PROPOSED	ENVIRONMENT ASPECT	COST
	Govt Primary School Block Jansla Rajpura Patiala	Water coolers and Two no Toilets in school	Sanitation	Rs 2.5 Lacs
		Plantation of trees all around the boundary wall of school.	Aesthetic & Pollution Control	Rs 1.5 Lacs
		5 No. Solar light in school	Energy saving/Resource Conservation	Rs 0.7 Lacs
	Jansla Village activities	Boundary wall and RCC bench at cremation ground.	Aesthetic	Rs 2.0 Lacs
		12 No. Solar lights in village road	Energy saving/Resource Conservation	Rs 1.00 Lac
Repair of village road and tree plantation		Aesthetic & Pollution Control	Rs 3.3 Lacs	

During the meeting, the following observations were made to which the project proponent replied as under:

S. No.	Query	Reply
--------	-------	-------

1.	What is the land use pattern of the project site?	The land use pattern of the industry is agriculture. Further, PP submitted a copy of CLU already issued to old industry with land use as industrial It was informed that correction was not made and not included in the master plan of Rajpura and accordingly, a new Application for CLU for new industry has already been submitted.
2.	Submit revised EMP for Green belt considering cost Rs. 400 per plant	PP submitted a copy of the revised EMP after considering the cost Rs. 400 per plant.
3.	Submit Rainwater harvesting proposal.	For RWH, a pond of Faridpur village is adopted. In the pond, three filling will be done and total 38574 m ³ water will be recharged. All the waste water of nearby Faridpur village which will be directed towards the village ponds will be first treated in trenches through CSIR-NEERI's Phytoid waste water treatment technology and overflow water will be discharged into the pond. Submitted the NOC for RWH from concerned Panchayat.
4.	How boiler ash will be disposed of?	The boiler ash @ 28 TPA or 80kg/day will be sent to M/s Century Cement Co. for final disposal. A copy of the Agreement made with the plant was submitted.
5.	Will ZLD technology will be adopted.	Yes, the proposed project will be based on ZLD. An undertaking to this regard was submitted.
6.	Whether the project proponent has agreements for Hazardous wastes & non-hazardous wastes?	Yes, agreements have already been done and submitted.
7.	The project cost of Rs 9.5 Crore has been mentioned in the application submitted for CLU and whereas the Project cost of Rs 5.5 Crore has been mentioned in the application of EC. Clarify.	Project Proponent has added the cost of raw material in the project cost while submitting the application of CLU with the competent authority. However, considering the project cost of Rs. 9.54 Crores, the balance fee Rs 39500/- has already been deposited vide UTR No. 026915712235 dated 25.09.2020.

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

3.0 Recommendations

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 the establishment of a new API Bulk Drug Pharmaceutical manufacturing unit at Village- Faridpur, Tehsil- Rajpura, District- Patiala, Punjab, by "M/s Biovid Labs Pharmaceuticals Pvt. Ltd" as per the details mentioned in the application & subsequent presentation /clarifications made by the project proponent & his consultant and conditions are as under:

I. Statutory compliance

- i. 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.
- 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 SO₂ and NO_x in reference to SO₂ 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 extant regulations and the guidelines in this regard.
- ix. Ambient air & noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air quality, noise especially during worst noise generating activities, water quality and soil should be periodically monitored during construction phase as well as operation & entire life phase as per the MoEF&CC guidelines, maintain the record for the same and all the mitigation measures should be taken to bring down the levels within the prescribed standards.

III. Water quality monitoring and preservation

- i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises ,
- ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- iv. Total fresh water requirement shall not exceed the 40 KLD. 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 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 from the at the borewell for abstraction of ground water if any, outlet of the ETP/STP and any pipeline to be used for re-using the treated wastewater back into the system and for horticulture purpose/green belt, etc.
- ix. A proper record regarding groundwater abstraction, water consumption, its reuse and disposal shall be maintained on daily basis and shall maintain a record of readings of each such meter on daily basis.
- x. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.
- xi. Separation of drinking water supply, treated sewage supply and treated permeate line leading back to the process water should be done by the use of different colors.

IV. Noise monitoring and prevention

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

V. Energy Conservation measures

- i. The energy sources for lighting purposes shall preferably be LED-based.
- ii. The project proponent shall make efforts to ensure the reduction of overall power demand which may be met by the 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 of 10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guide lines in consultation with the State Forest Department. Total 347 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. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall spend Rs. 11 lacs towards the following CER activities:

Sr. No.	Description	Activity proposed	Environment aspect	Cost
1	Govt Primary School Jansla Block Rajpura Patiala	Water coolers and Two no Toilets in school	Sanitation	Rs 2.5 Lacs
		Plantation of trees all around the boundary wall of school.	Aesthetic & Pollution Control	Rs 1.5 Lacs
		5 No. Solar light in school	Energy saving/Resource Conservation	Rs 0.7 Lacs
2.	Jansla Village activities	Boundary wall and RCC bench at cremation ground.	Aesthetic	Rs 2.0 Lacs
		12 No. Solar lights in village road	Energy saving/Resource Conservation	Rs 1.00 Lac
		Repair of village road and tree plantation	Aesthetic & Pollution Control	Rs 3.3 Lacs
			Total	Rs. 11 Lacs

The amount to be spent on CER activities shall be proportionate to the amount spent on project & such activities shall run parallel to the project execution. All the activities must be completed with the completion of the project

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

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

- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- ii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report. The project proponent shall adhere to the commitments made in the Environment Management Plan. In the construction phase, amount of Rs. 177 Lacs as a capital cost and Rs. 2.1 Lacs per annum as a recurring expenses and in the operation phase, Rs. 8.25 Lacs per annum as recurring expenses shall be spent as proposed in the EMP.
- iv. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

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, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- viii. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- ix. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- x. The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production/operation by the project.
- xi. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- xii. The project proponent shall abide by all the commitments and recommendations made in the EIA /EMP report, commitment made during Public Hearing and also that during their presentation to the SEAC and SEIAA.
- xiii. No further expansion or modifications in the 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. The Environmental Clearance is granted to the project subject to the condition that industry shall obtain change of land use for the industrial purposes and submit a copy of the same to SEIAA. In case, CLU has been rejected for industrial use for any reason, SEIAA will not be responsible for the cost incurred on the project.
- ii. The project proponent shall provide effluent treatment systems for the high TDS stream with MEE as proposed. The treated water will be used in the process for core/non-core activities within their premises to achieve the Zero Liquid Discharge.
- iii. 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.
- iv. The project proponent shall provide septic tank of adequate capacity for the treatment of domestic effluent/ sewage and shall utilize whole of this treated effluent for horticulture, plantation and green area.
- v. 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.
- vi. 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.
- vii. 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.

- viii. The project proponent shall dispose of fly ash generated from the boiler with M/s New Century Cement Company as per the agreement made vide letter dated 22.09.2020.
- ix. Artificial Rain Water recharging/rainwater harvesting shall be carried out as required by CGWA. However, recharging structures shall not be provided within the plant premises to avoid any intentional or unintentional discharge of trade or domestic effluent.
- x. The project proponent shall practice rainwater harvesting to the maximum possible extent. For this, a village ponds having volume @ 25,716 m³ located at Village Faridpur, Tehsil Rajpura & District Patiala respectively shall be adopted for desilting to recharge the rainwater. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytoid plants trench (designed based on the technology developed by CSIR-NEERI's) divided into different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to the purification of water and collected into pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and the remaining water shall be used for irrigation purposes by pumping method in the nearby fields.

4.0 Deliberations during the 172nd meeting of SEIAA held on 12.10.2020.

The case was placed before SEIAA in its 172nd meeting held on 12.10.2020 and the same was attended by the following through video conference: -

- (i) Sh. Kumar Sharma, Plant Head of the Promoter Company.
- (ii) Mr. Sital Singh, CPTL Environmental Consultant of the Promoter Company.

Environmental Consultant of the promoter company presented the salient features of the project. After the presentation, SEIAA raised certain observations to which he replied as under:

Sr. No.	Observations	Reply										
1.	How the domestic wastewater will be treated?	The domestic wastewater will be first treated in a septic tank. The outlet of the septic tank will be connected to ETP for further treatment. The treated water will be utilized for plantation purposes.										
2.	Submit revised CER activities considering the construction of new toilets in the School.	Revised CER activities submitted as under: -										
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Sr. No.</th> <th style="text-align: center;">DESCRIPTION</th> <th style="text-align: center;">ACTIVITY PROPOSED</th> <th style="text-align: center;">ENVIRONMENT ASPECT</th> <th style="text-align: center;">COST</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Govt Primary School Jansla</td> <td>Water coolers and Two no Toilets in school</td> <td>Sanitation</td> <td>Rs 2.5 Lacs</td> </tr> </tbody> </table>	Sr. No.	DESCRIPTION	ACTIVITY PROPOSED	ENVIRONMENT ASPECT	COST	1.	Govt Primary School Jansla	Water coolers and Two no Toilets in school	Sanitation	Rs 2.5 Lacs	
Sr. No.	DESCRIPTION	ACTIVITY PROPOSED	ENVIRONMENT ASPECT	COST								
1.	Govt Primary School Jansla	Water coolers and Two no Toilets in school	Sanitation	Rs 2.5 Lacs								

		Block Rajpura Patiala	Plantation of trees all around the boundary wall of school.	Aesthetic & Pollution Control	Rs 1.5 Lacs
			5 No. Solar light in school	Energy saving/Resource Conservation	Rs 0.7 Lacs
	2.	Jansla Village activities	Boundary wall and RCC bench at cremation ground.	Aesthetic	Rs 2.0 Lacs
			Construction of toilets	Infrastructure & sanitation	Rs 1.00 Lac
			Repair of village road and tree plantation	Aesthetic & Pollution Control	Rs 3.3 Lacs
		Total			Rs. 11 Lacs
3.	As to whether the existing buildings will be demolished?		No, the existing building will not be demolished as the same will be renovated for the new plant.		

The reply along with undertakings submitted by the project proponent was taken on record by the SEIAA.

During discussions, the representative of the promoter company agreed to comply with fully all the conditions as mentioned by SEAC.

The SEIAA observed that the case stands recommended by SEAC and the Committee has awarded 'Silver Grading' to the project proposal. The SEIAA looked into the details of the case and was satisfied with the same.

After detailed deliberations, SEIAA decided to accept the recommendations of SEAC and grant Environmental Clearance for the establishment of a new API Bulk Drug Pharmaceutical manufacturing unit at Village- Faridpur, Tehsil- Rajpura, District- Patiala, Punjab, by "M/s Biovid Labs Pharmaceuticals Pvt. Ltd" as per the details mentioned in the application & subsequent presentation /clarifications made by the project proponent & his consultant, with proposed measures, conditions as recommended by SEAC & with following amendments therein as agreed by the Project proponent:

Amended Condition no. (i) of Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding

Corporate Environment Responsibility. The project proponent shall spend Rs. 11 lacs towards the following CER activities:

Sr. No.	Description	Activity proposed	Cost	Time Schedule
1	Govt Primary School Jansla Block Rajpura Patiala	Water coolers and Two no Toilets in school	Rs 2.5 Lacs	To be completed in first year from the dated of issue of EC
		Plantation of trees all around the boundary wall of school.	Rs 1.5 Lacs	-do-
		5 No. Solar light in school	Rs 0.7 Lacs	-do-
2.	Jansla Village activities	Boundary wall and RCC bench at cremation ground.	Rs 2.0 Lacs	To be completed in second year from the date of issue of EC
		Construction of toilets	Rs 1.00 Lac	-do-
		Repair of village road and tree plantation	Rs 3.3 Lacs	-do-
			Rs. 11 Lacs	-do-

The amount to be spent on CER activities shall be proportionate to the amount spent on the project & such activities shall run parallel to the project execution. All the activities must be completed with the completion of the project

Amended Condition no. (iv) of Additional Condition

- iv. The project proponent shall provide a septic tank of adequate capacity for the treatment of domestic effluent/ sewage and connect the outlet of the same to the ETP for further treatment and utilize whole of treated wastewater for plantation purposes within the premises of the project.

Item No.172.05: Application for obtaining Environment Clearance under EIA notification Dated 14.09.2006 for expansion of existing steel manufacturing unit M/s Vimal Alloys Pvt. Ltd. having existing capacity of 43,050 TPA of steel Ingots / Castings to 1,17,600 TPA at Village- Sounti, Amloh Road, Mandi Gobindgarh, Dist. Fatehgarh Sahib (Proposal No. SIA/ PB IND/37324/ 2018).

Facts of the case are as under:

1.0 Background:

The project proponent has submitted an application for issuance of TOR under EIA notification, 2006 for expansion of the steel manufacturing unit by replacement/addition of induction furnaces in Village Sounti, Tehsil- Amloh, Distt- Fatehgarh Sahib, Punjab. The

project is covered under category 3(a) -Secondary Metallurgical Industries (ferrous & non-ferrous) of the Schedule appended to the said notification.

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

Sr. NO	EDS raised online	Reply submitted by Project Proponent
1.	<p>The industry has mentioned that they have established the unit in 1991 and obtained CTE from the Board for the manufacturing of steel ingot@ 45000 TPA. Thereafter, in 2004, the unit got CTE for the manufacturing of steel ingot@ 123 TPD. The project proponent is required to submit the details of furnace capacity & electric load available at that time with documentary evidence and justify that project at any stage has not violated the provisions of EIS notification, 1994, EIA notification dated 14.09.2006 and its amendments.</p>	<p>The project proponent has submitted as under:-</p> <p>The Industry was granted approval from Competent State Authority, Govt. of Punjab for manufacturing of steel Ingots @ 45000 TPA vide letter no. CSA/P.A/3503 dated 04-10-1991. The Industry was granted consent to establishment (CTE) for expansion by Punjab Pollution Control Board, Patiala, Punjab in 2004 vide letter no. EE(P)/2004/FGS/LM/7/1/3145 dated 13-02-2004 for manufacturing of Steel Ingot/ casting @ 123TPD. The Industry was granted consent to operate (CTO) by Punjab Pollution Control Board, Patiala, Punjab in 2005 vide letter no. FGS/APC/2005-06/V(158)/09 dated 15-03-2005 for manufacturing of Steel Ingot @ 123TPD. The consent to operate under Water & Air Acts was renewed by Punjab Pollution Control Board from time to time and the latest renewal has been done on 04-02-2011, same was valid up-to 31-12-2013 vide their letter no. ZO-I/FGS/WPC/2011-13/F-363 dated 04-02-2011. The Industry was again applied for consent to establishment for modernization (CTO) in 2012 and Punjab Pollution Control Board, Patiala, Punjab issued NOC vide their letter no. SEE (ZP-II)/FGS/APC/2012/NOC/Modernization/476 dated 23-04-2012 for manufacturing of better quality Steel Ingot/steel casting @ 123TPD. The Industry has applied to MOEF & CC, Regional Office, Chandigarh for clarification for the Installation of equipment/machinery named as LADLE REFINING FURNACE, VACUUM DEGASSING & ARGON-OXYGEN DE-CARBONIZATION for refining of the existing Molten Metal's for better quality without increasing the production capacity of the unit i.e. 123TPA, in March 2012 which has already been approved by different Authority, since 1991. In this regards, the Ministry of Environment Forest & Climate Change had clarified, that unit does not require Environmental Clearance for the Installation of equipment/machinery named as Ladle refining Furnace, Vacuum Degassing & Argon-oxygen De-carbonization for refining of the existing Molten Metal's for better quality without increasing production capacity as per EIA Notification 2006 & amended time to time.</p>

		YEAR OF ESTABLISHMENT	CAP. OF FURNACE	POWER	TOTAL PRODUCTION	WHETHER COVERED UNDER EIA NOTIFICATION OR NOT
		04-09-1991	1TPH, 2X3TPH	2016.5KW	45000TPA	The industry is not covered under EIA notification.
		13-02-2004	2X6TPH	4396.29 KW	123TPD	The industry is not covered under EIA notification 1994.
		23-04-2012	1TPH, 4TPH & 7TPH, holding furnace 15TPH, LRF, VD, AOD.	6800KW	123TPD	MOEF & CC, Regional Office, Chandigarh has clarified, there is no requirement of EC for modernization.
2.	Details of location of the industry duly marked on Notified Master or submit the documentary evidence to prove your contention that it is located in a designated industrial area.	Submitted a copy of the Master Plan showing that site is located outside of master plan of Mandi Gobindgarh. The industry is already an existing unit and there will be no change in the land use and it is an expansion project. No additional land has been acquired.				

The case was considered by SEAC in its 163rd meeting held on 13.03.2018, the SEAC allowed the project proponent to present the salient features of the project for issuance of TORs. The case was considered by SEIAA in its 129th meeting held on 23.03.2018, Environmental Consultant of the Promoter industry presented the salient features of the project. The SEIAA observed that the SEAC has categorized the project into B-1 category and has recommended specific TORs for undertaking detailed EIA & EMP for such types of projects.

The SEIAA looked into the details of the case and was satisfied with the same. Therefore, the Authority decided to accept the recommendations of SEAC and approved Terms of Reference for undertaking detailed EIA & EMP as finalized by SEAC.

Accordingly, TORs was issued vide letter No. SEIAA / 2018/ 518 dated : 10.04.2018.

2.0 Present Case:

The project proponent has now submitted the EIA report. Further, the project proponent has submitted processing fee of Rs. 2,42,500/- (Rs. 2,18,250 vide NEFT no.N029200360775957 dated 29.01.2020. Additional Rs. 24,250/- has been submitted vide NEFT no. N050200374387317 dated 19.02.2020. EIA report was scrutinized and EDS was raised on the basis of shortcomings in the application, to which the project proponent replied dated 21.02.2020, 30.07.2020, 15.09.2020 and 22.09.2020 respectively.

Following are the online EDS reply submitted by the project proponent dated 21.02.2020:

S. No.	Detail of the documents	EDS replied submitted dated 21.02.2020
1.	With reference to reply of EDS submitted on 10.02.2020, you have replied that fee have been submitted as per following details a. Rs. 2,18,250/- dated 29.01.2020 b. Rs. 24,250/- dated 05.02.2020. Whereas, it has been verified from the account statement that no fee of Rs. 24,250/- dated 05.02.2020 has been deposited in the SEIAA/SEAC account (Corporation Bank)	The balance amount of Rs. 24,250/- has been deposited on dated 19.02.2020 in the SEIAA/SEAC account (Corporation Bank). The UTR no. of the transaction is 200374387317

Following are the online EDS reply submitted by the project proponent dated 30.07.2020:

Sr. No.	Detail of the Document	EDS replied submitted dated 30.07.2020
1)	a. Total project cost break up (existing and proposed) b. Further, the APCD Cost for 2×15TPH & 1×1TPH induction furnaces has been mentioned as Rs. 35.0 lakh. Please clarify	a. PP submitted revised Project cost breakup is Rs. 24.25 crore b. PP has Revised APCD cost as Rs. 78 lac From Rs. 35 lac.
2)	As per issuance of TOR No. SEIAA/2018/518 dated: 10.04.2018, Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon. Please clarify?	The Enterprise Social Commitment is revised to Corporate Environmental Responsibility as per OM- 22-65/2017-IA.III dated 01.05.2018. For which Rs. 10Lakhs will be spent.

3)	As per Application No. 21-4/3102/PB/IND/2017 has been submitted to CGWA for permission to abstract groundwater for industrial use with total water requirement as 46 KLD. However, it has been mentioned in Form-II & EIA that permitted water quantity is 60 KLD. The blow down (0.5 KLD) & STP capacity needs to be checked & corrected. Please submit the Approval documents & clarify the same.	Application to CGWA has been submitted and in process. Revised Form-II is submitted with all corrections. The APCD dust is 0.80 TPD or 280 TPA. Inadvertently, it is written as 0.02TPD. Revised EIA & Form-II submitted.
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EDS reply submitted by the project proponent/complete dated 15.09.2020 was incomplete:

It has been observed that the consultant has closed the application online dated 15.09.2020 without submitting the reply of the observations raised through EDS on 11.08.2020 whereas, he has submitted the EDS reply which was neither asked nor relevant. Therefore, again the EDS was raised on 20.09.20, asking him to submit the reply of the EDS raised on 11.08.2020. Thereafter, the following are the online EDS reply submitted by the consultant dated 22.09.2020:

S. No.	Observation	EDS replied submitted dated 22.09.2020
1.	In the EDS reply submitted dated 30.07.2020, at point no. 3 regarding CER activities, it has been observed that the proposed CER cost (Rs.10 Lacs) is on the expansion part only whereas, Project proponent has submitted an application for EC for the whole project and also no EC has been obtained earlier for its existing capacity. a. Please submit the revised CER activities with revised budget w.r.t total cost of project (Rs. 24.25 Crore) as per MoEF OM dated 01.05.2018, with works of infrastructure creation only.	PP submitted that the project proponent will spend Rs. 10 lakhs for CER activities and the activities have not been revised.
2.	In the EDS reply submitted dated 30.07.2020, at point no. 4, regarding permission for groundwater abstraction, PP has submitted request letter to EO, MC, Mandi Gobindgarh vide letter dated 3.07.2020 for permission to get only 6.5 KLD of treated waste water whereas, the	a. PP submitted that Water for Cooling purpose & Green area development i.e 79.75 KLD will be sourced from nearby ETP. The process of agreement is under progress.

	<p>actual water requirement for Cooling purpose & Green area development is of 79.75 KLD. Further, this unit is located in Notified block.</p> <p>a. Please submit the source and Quantity of treated waste water for utilization water for Cooling purpose & Green area development i.e 79.75 KLD from competent authority. Further, mention the distance of the unit from STP and mode of transport in the agreement/NOC.</p> <p>Further, PP has applied to DAC for abstraction of 12 KLD water for domestic use whereas, its domestic water requirement as per water balance diagram is 22.5 KLD</p> <p>b. Please Clarify from where the balance requirement will be fulfilled.</p>	<p>b. PP inform that for 12 KLD domestic water requirement application to DAC has been applied vide letter dated 25.02.2020 were as has not provided clarification for the balance 12.5 KLD domestic water requirement.</p>
<p>3.</p>	<p>Consultant has not submitted the following Specific TOR compliance:</p> <p>a. The project proponent shall submit the NOC from the PPCB as the site is located outside the master plan of Mandi Gobindgarh.</p> <p>b. Clarification regarding change of furnace in 2003 & 2014 is required to be provided.</p>	<p>a. PP has submitted letter form PPCB dated 17.10.2019 regarding issue of a certificate that the project does not fall under critically polluted area .</p> <p>b. PP has submitted a letter from MOEF dated 03.04.2012 regarding clarification that the unit will not require EC from MOEF for its existing production capacity of 45000 TPA as the unit was established before the EIA the notification.</p>
<p>4.</p>	<p>Consultant has submitted the master plan copy of Mandi Gobindgarh whereas; the project site is outside the limits of Mandi Gobindgarh. Further, in Form 2 at point no. 20 of Land use pattern, 3.345 Acre of land has been specified as Industrial.</p> <p>a. Please clarify the land use pattern of the project site with documentary proof (Industrial/Agriculture/any other)</p>	<p>a. PP submitted a letter form DTP Fatehgarh Sahib dated 10.09.2020 regarding clarification on the land use pattern stating that CLU related guidelines were made applicable in the year 2007 whereas, the unit was setup before that. Further, if the unit proposes to expand in new land other than existing than it will be liable to obtain CLU for new land</p>
<p>5.</p>	<p>It has been observed that there are incompletions in the EIA report submitted despite of the fact that the checklist has already been shared with the consultant which is also not filled properly, therefore, the consultant is advised to ensure that the application should be complete in all respects & there should not be any misleading information while submitting & uploading EIA report/ EDS reply, Please make necessary changes in the relevant</p>	<p>PP submitted that Relevant documents have been revised and the shortcoming happens inadvertently.</p>

	documents online/offline as per the EDS reply and checklist as well.	
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3.0 Deliberations during the 193rd meeting of SEAC held on 26.09.2020

The meeting was attended by Sh. Varun Bansal, Director of the company and Mr. Sital Singh, Environmental Consultant, M/s CPTL, Mohali. Environmental Consultant of the promoter company presented the salient feature of the project before SEAC as under:-

S.no.	Description	Details															
1.	Name of the project & Correspondence address	M/s Vimal Alloys (P) Ltd. Village- Sounti, Amloh road, Mandi Gobindgarh, District- Fatehgarh Sahib, Punjab.															
2.	Online Proposal No.	SIA/PB/IND/37324/2018															
3.	Nature of project	EC for existing & proposed project															
4.	a) Category b) Activity	(a) Category- B1 (b) Metallurgical Industries (ferrous & non ferrous) (8), Schedule 3(a) as per EIA notification-2006.															
5.	Total Project Cost (In Crores) :	Rs.24.25 Crore															
6.	Amount of EC Processing Fee deposited	Processing fee of Rs. 2,42,500/- (Rs. 2,18,250 vide NEFT no.N029200360775957 dated 29.01.2020. Additional Rs. 24,250/- has been submitted vide NEFT no. N050200374387317 dated 19.02.2020															
7.	Co-ordinates of all the corners of the project site	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>30°37'21.91"N</td> <td>76°14'49.45"E</td> </tr> <tr> <td>B</td> <td>30°37'18.53"N</td> <td>76°14'41.52"E</td> </tr> <tr> <td>C</td> <td>30°37'14.07"N</td> <td>76°14'44.83"E</td> </tr> <tr> <td>D</td> <td>30°37'13.55"N</td> <td>76°14'48.01"E</td> </tr> </tbody> </table>	Point	Latitude	Longitude	A	30°37'21.91"N	76°14'49.45"E	B	30°37'18.53"N	76°14'41.52"E	C	30°37'14.07"N	76°14'44.83"E	D	30°37'13.55"N	76°14'48.01"E
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8.	Plot Area Details	Sr. No	Description	Area (Sqm)
		1.	Total Land Area	33450
		2.	Covered Area	13233
		3.	Raw Material	2250
		4.	Finish Material	4150
		5.	Other Material	3435
		6.	Green Area	12500
		7.	Road Area	3650
		8.	Open Area	3350
		9.	Vehicle parking	515
9.	Type of project land as per master plan	Master plan of the area is yet to be prepared. The DTP, Fatehgarh Sahib vide letter no. 846 dated 10.09.2020, informed that industry is in operation since 1989 and the area of the industry as per the building plan approved time to time is 8.26 acres. No Government has implemented the CLU in the year 2007 and if area of the site is increased then CLU for the additional land shall be obtained. Further, the industry shall abide provisions of the Master Plan which is under preparation.		
10.	Details of valid consent to operate under the Air & Water Act	CTO Air/Water valid upto 31.03.2021		
11.	Raw material details:			
	Raw Material	Existing (TPA)	Additional (TPA)	Total (TPA)
	M.S Scrap	46750	81,950	1,28,700
	Ferro Alloys	900	1650	2550
	Source & Mode of transport	From Domestic & as well as International Markets through covered trucks		
12.	Production Capacity details:			
	Product Name	Existing (TPA)	Additional (TPA)	Total (TPA)

	Steel Ingots, Steel Casting Metal/Steel Roll, CI/SGI casting	43,050	74,550	1,17,600	
13.	Details of major productive machinery/plant:				
	S.No.	Description	Existing	Proposed	After Expansion
	1.	Induction Furnace	1 TPH, 4 TPH & 7 TPH	1X1 TPH & 2X15 TPH	1X1 TPH & 2X15 TPH
	2.	VD	01 No.	---	01 No.
	3.	LRF	01 No.	---	01 No.
	4.	AOD	01 No.	---	01 No.
	5.	Holding Furnace 15T	01 No.	---	01 No.
	6.	Heat Treatment Furnace	04 No.	---	04 No.
	7.	D.G. Set	---	250kVA-01 No.	250kVA- 01No.
	8.	O.T.E	01 No.	02 No.	03 No.
14.	Manpower requirement (After expansion)	250			
15.	Details of Emissions (After expansion)				
	S.No.	Source	No.	Fuel	APCD
Existing					
	1.	Induction furnace	03	Electricity	Cyclone followed by Wet Scrubber
	2.	D.G. Set	---	HSD	Canopy and stack of adequate height
After Expansion					
	1.	Induction Furnace	03	Electricity	Offline cleaning of pulsejet bag filter
	2.	D.G. Set 250kVA	01	HSD	Canopy & Stack of adequate height

16.	Hazardous/Non-Hazardous Waste Generation details & their storage, utilization and its disposal.				
	Hazardous Waste				
	S.No.	Hazardous Waste	Waste Category	Quantity	Disposal
	1.	Gas Cleaning Residue (APCD dust)	35.1	280 TPA	Agreement with M/s Madhav Alloys & also member of TSDF.
2.	Used Oil	5.1	0.05kl/annum	Sold to authorized recyclers & also used in oiling of moulds & machineries.	
17.	Solid Waste generation and its mode of disposal:				
	Waste	Source	Quantity	Potential Impact	
	APCD Dust	Induction Furnace	0.80TPD	Health Implication	
	Sludge from Waste Water Treatment	STP	25.0 kg/d	No adverse environmental impact except little odor nuisance.	
	Runner/Rise	Concast	5 TPD	No Impact, It is a recyclable material.	
	Furnace Slag	Induction Furnace	22.4 TPD	No adverse impact. The There is in-house slag crushing plant from which dust is separated from Slag and re-used in side our factory premises only.	
	Used Oil	DG sets	0.05 KI/A	possibility of soil and water contamination due to spillage	
	MSW from every day & Domestic@250gm/PPPD	Employees	62.5 kg/d	Health Implementation will be handling as per MSW-rules, 2016	
Waste water generation & its disposal Arrangement in Operation Phase:					

18.	Details	Existing Qty (KLD)	Proposed Quantity (KLD)	Total Quantity after expansion (KLD)	Disposal method
	Industrial Effluent	-	-		-
	Domestic effluent	14.4	3.6	18	Through STP and used for plantation
19.	Details of the block in which the project site is located as per CGWA guideline		Notified Block		
20.	Breakup of Water Requirements & its source in Operation Phase:				
	S. No.	Description	Existing water demand (KLD)	Proposed water demand (KLD)	Total water demand (KLD)
	1.	Domestic water demand	18.0	4.5	22.5
	2.	Makeup water demand for cooling purpose	28.0	6.5	34.5
	Total		46.0	11.0	57.0
21.	Water balance chart for Summer, Rainy and Winter seasons				
	S. No.	Description	Existing water demand (KLD)	Proposed water demand (KLD)	Total water demand (KLD)
	1.	Domestic water demand	18.0	4.5	22.5
	2.	Makeup water demand for cooling purpose	28.0	6.5	34.5
	Total		46.0	11.0	57.0
	Sources of water:				
	S. No.	Purposes	Source of water		
	1.	Domestic	Ground water after permission from DAC		
	2.	Make-up water demand for cooling	Treated waste water from nearby STP of MC		

	3.	Green Belt demand	Treated waste water from nearby STP of MC			
22.	Rain Water Harvesting proposal	47,475 m3 of rain water will be harvested by adopting pond at village Sounti.				
23.	Blockwise details of no. of trees to be planted in proposed greenbelt	Description	Area (m²)	No. of plants		
		Green area-1	6500	975		
		Green area-2	225	34		
		Green area-3	1340	201		
		Green area-4	255	38		
		Green area-5	750	112		
		Green area-6	330	49		
		Green area- 7	430	65		
		Green area- 8	670	100		
		Green area- 9	2000	300		
				Total	12500	1874
24.	Energy requirements & savings:		The details of the energy are given below:			
	S. No.	Description	Unit	Existing	Proposed	Total
	1.	Power load	KW	6880	8000	14880
	2.	D.G sets-1	KVA	-	250	250
		Any other				
25.	EMP Budget details					
	S.No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh		
	i)	Pollution Control during construction stage	5.0	---		
	ii)	Air Pollution Control (Installation of APCD)	78.0	10.0		
	iii)	Water Pollution Control/Installation of APCD	20.0	0.5		
iv)	Noise Pollution Control (Including cost of Landscaping, Green Belt)	5.0	2.5			

	v)	Solid Waste Management	5.0	0.5
	vi)	Environment Monitoring and Management	5.0	0.5
	vii)	Occupational Health, Safety and Risk Management	5.0	0.5
	viii)	RWH	5.0	0.5
	ix)	Miscellaneous	5.0	---
		Total	133.0	15.0
26.	Details of the activities proposed to be covered under CER			
	S.No	Activity	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
	i)	Providing Solar power plant of 10 KW	4.00	0.30
	ii)	Green belt development	3.00	0.20
	iii)	Distribution of school uniform	1.00	---
	iv)	RWH pits	2.00	0.50

During the meeting, the following observations were made to which the project proponent replied as under:

Sr. No	Observation	Reply
1	What is the proposal for Rain Water utilizing inside the premises?	A 15 KLD storage tank of size 3m x 2.5 m x 2m will be constructed for the storage of rainwater in the industry premises to utilize the same for non-core industrial activities.
2.	NOC from village Panchayat regarding the pond adoption	A copy of the NOC obtained from the Sarpanch, Village Sounti regarding the adoption of village pond of Sounti was submitted and the same was taken on record by the SEAC.
3.	Submit revised EMP for green belt considering cost Rs.400 per tree	The project proponent submitted a revised plantation budget wherein the capital cost of plantation has been proposed as 4.0 lacs and recurring cost from 1.0 lacs/ annum. A copy of the revised EMP was taken on record by the SEAC.
4.	Clarify regarding change of furnace in year 2003 & 2014	There is no change in machinery since year 2003.
5.	Being an expansion case, NOC from the CGWA for the existing unit be submitted.	The industry has applied to the District Advisory Committee for use of 23 KLD water for domestic purposes including existing and proposed domestic water requirements.

		Further, the industry will utilize treated wastewater of 80 KLD from MC Mandi Gobindgarh for which NOC has already been obtained and submitted.
6.	Give details of green area water requirement	Total green area requirement is 45.25 KLD.

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

5.0 Recommendations

After detailed deliberations, SEAC decided to award '**Silver Grading**' to the project proposal under category B2, Activity 3(a) and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for expansion of existing steel manufacturing unit M/s Vimal Alloys Pvt. Ltd. having existing capacity of 43,050 TPA of steel Ingots / Castings to 1,17,600 TPA at Village Sounti, Amlah Road, Mandi Gobindgarh, Dist. Fatehgarh Sahib, as per the details mentioned in Form 2, EIA report & subsequent presentation /clarifications made by the project proponent & his consultant and conditions are as under:

I. Statutory compliance:

- i. 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.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981, and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned Punjab Pollution Control Board.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority/competent authority concerned, in case of 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. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

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

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall install a Manual system to carryout Continuous Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly.
- viii. Recycle and reuse of iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration should be ensured.
- ix. The project proponent shall use leak-proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- xii. Design and implementation of the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars should be ensured.

III. Water quality monitoring and preservation

- i. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- ii. The project proponent shall adhere to 'Zero Liquid Discharge'.
- iii. Sewage Treatment Plant of capacity 25 KLD shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off
- v. The project proponent shall practice rainwater harvesting to maximum possible extent. For this a village ponds having volume @ 31650 m³ located at Village Sounti, Amlah road, Mandi Gobindgarh respectively shall be adopted for desilting to recharge the water @ 47475 m³/annum. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytoid plants trench (designed based on the technology developed by CSIR-NEERI's) divided in different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to purification of water and collected into pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural

strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.

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

IV. Noise monitoring and prevention

- i. Noise level survey shall be carried as per the prescribed guidelines and the report in this regard shall be submitted to the Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

- i. The project proponent shall practice hot charging of slabs and billets/blooms as far as possible.
- ii. The project proponent shall provide solar power generation on rooftops of buildings, solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- iii. The project proponent shall provide the for LED lights in their offices and residential areas.

VI. Waste management

- i. Used refractories shall be recycled as far as possible.
- ii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iii. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- iv. Kitchen waste shall be composted or converted to biogas for further use

VII. Green Belt

- i. Green belt shall be developed in an area 12500 sqm (33 %) of the plant area with tree species in accordance with SEIAA guidelines. Total 1874 trees to be planted without accounting the shrubs shrubs and protect the same with tree guard made of concrete. The greenbelt shall inter alia cover the entire periphery of the plant

to the maximum extent. The industry shall ensure that most of the periphery shall be provided with green belt by removing the unwanted/non-productive structures already provided in the existing project near the boundary wall.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- i. The project proponent shall carry out the activities apart from CER activities and spent an amount as commuted during the public hearing as per the public hearing action plan.

IX. Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities and spend atleast minimum amount of Rs.10.5 Lacs towards following CER activities:

Sr No	Activity	Environment Aspect	Cost (Rs Lacs)	Time line	
				Start	End
1.	Distribution of School Uniform & Books to BPL students	Education	2.0	March, 2022	--
2.	Development of Greenbelt by plantation inside the school premises. Repairing of Furniture & maintenance of toilets of school	Infrastructure & pollution control	3.5	June 2021	August 2021

3.	Repair & maintenance of boundary wall	Infrastructure	5.0	February 2021	April 2021
		Total	10.5 Lacs		

The amount to be spent on CER activities shall be proportionate to the amount spent on project & such activities shall run parallel to the project execution. All the activities must be completed with the completion of the project.

- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions to all / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The Year-wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall spent minimum amount of Rs 133 Lacs towards the capital cost and Rs 15.3 Lacs/annum towards recurring cost including the Environmental monitoring cost for the implementation of EMP as proposed in the revised EMP plan as under: -

Sr. No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
1.	Pollution Control during construction stage	5.0	---
2.	Air Pollution Control (Installation of APCD)	78.0	10.0
3.	Water Pollution Control/Installation of APCD	20.0	0.5
4.	Noise Pollution Control	1.0	0.5
5.	(Including cost of Landscaping, Green Belt)	4.0	2.30
6.	Solid Waste Management	5.0	0.5
7.	Environment Monitoring and Management	5.0	0.5

8.	Occupational Health, Safety and Risk Management	5.0	0.5
9	RWH	5.0	0.5
	Miscellaneous	5.0	---
	Total	133.0	15.3

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

- v. Self-environmental audit shall be conducted annually. Every three years third-party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.

X. Validity

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

XI. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.

- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA /EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee and SEIAA.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry and 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.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other

orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

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

XII. Additional Specific Conditions decided during the meeting of SEAC

- i. The project proponent shall install site suction hood followed by the Pulse-Jet bag filter with offline cleaning technology as APCD on the two Induction Furnaces of capacity 15TPH each.
- ii. The project proponent shall install 24x7 continuous online SPM monitoring system at the inlet & outlet of APCD to monitor and achieve the suspended particulate matter (SPM) emission standards as prescribed by CPCB/SPCB.
- iii. The project proponent shall submit monthly summary report of continuous stack emission (inclusive of data of continuous SPM monitoring at inlet & outlet of APCD before stack) and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. The project proponent shall obtain the permission from District Advisory Committee (DAC) for the abstraction of ground water from its existing borewells to meet with the requirement of domestic and green areas.
- v. As proposed, the project proponent will meet the water requirement for industrial purpose @ 80 KLD from the treated wastewater from STP of MC, Mandi Gobindgarh.
- vi. The project proponent shall construct water storage tank of capacity 15 KL for collection of rainwater runoff generated from the rooftop within its premises and utilise the same for non-core activities of the industry.
- vii. The project proponent shall minimize the water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- viii. The project proponent shall reuse of cooling tower blowdown, 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.

- ix. The project proponent shall reserve land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking. The area to be reserved by considering the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.
- x. The project proponent shall comply with the standard operating procedures and up-gradation of suction and control arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.
- xi. 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.
- xii. The vehicles to be used for loading/unloading purposes shall not be parked along the roadside to avoid traffic congestion and a dedicated parking place to be provided for the same.
- xiii. The project proponent shall adopt green technologies to conserve water and energy. Also, provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.
- xiv. The project proponent shall use natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.
- xv. The project proponent shall take necessary action w.r.t. the following: -
 - a) Recovery of iron from slag before disposing of it.
 - b) Identify the areas for utilization of slag in a scientific manner and its usage in cement/construction industry/road laying etc.

5.0 Deliberations during 172nd meeting of SEIAA held on 12.10.2020.

The case was placed before SEIAA in its 172nd meeting held on 12.10.2020 and the same was attended by the following through video conference: -

- (i) Sh. Varun Bansal, Director of Promoter Company.
- (ii) Mr. Sital Singh, CPTL, Environmental Consultant of the promoter company.

Environmental Consultant of the promoter company presented the salient features of the project. After the presentation, SEIAA raised certain observation to which he replied as under:

Sr. No.	Observations	Reply

1.	As to whether NOC obtained from PPCB. If yes, submit copy of same.	Yes, NOC from PPCB has been obtained and a copy of the same was submitted.			
2.	Whether forest land involved in the project?	No, forest land is not involved. As such, FCA Act, 1980 is not applicable on the project.			
3.	Submit revised CER activities considering the construction of new toilets in the School.	Revised CER activities submitted as under: -			
	Sr. No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline
					Start End
	1.	Repair & maintenance of boundary wall and construction of one toilet for boys and girls each.	Infrastructure	5.0	February 2021 April 2021
	2.	Development of Greenbelt by plantation inside the school premises. Repairing of Furniture & maintenance of toilets of school	Infrastructure & pollution control	3.5	June 2021 August 2021
	3.	Distribution of School Uniform & Books to BPL students	Education	2.0	March, 2022 --
	TOTAL			10.5	

The reply along with undertakings submitted by the project proponent was taken on record by the SEIAA.

During discussions, the representative of the promoter company agreed to comply with fully all the conditions as mentioned by SEAC.

The SEIAA observed that the case stands recommended by SEAC and the Committee has awarded 'Silver Grading' to the project proposal. The SEIAA looked into the details of the case and was satisfied with the same.

After detailed deliberations, SEIAA decided to accept the recommendations of SEAC and grant Environmental Clearance for expansion of existing steel manufacturing unit M/s Vimal Alloys Pvt. Ltd. having existing capacity of 43,050 TPA of steel Ingots / Castings to 1,17,600 TPA at Village Sounti, Amlah Road, Mandi Gobindgarh, Dist. Fatehgarh Sahib, as per the details mentioned in Form 2, EIA report & subsequent presentation / clarifications made by the project proponent & his consultant with proposed measures, conditions as recommended by SEAC & with following amendments therein as agreed by the Project proponent:

Amended Condition no. (i) of Corporate Environment Responsibility

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities and spend atleast minimum amount of Rs.10.5 Lacs towards the following CER activities:

S.No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline	
				Start	End
1.	Repair & maintenance of boundary wall and construction of one toilet for boys and girls each.	Infrastructure	5.0	February 2021	April 2021
2.	Development of Greenbelt by plantation inside the school premises. Repairing of Furniture & maintenance of toilets of school	Infrastructure & pollution control	3.5	June 2021	August 2021
3.	Distribution of School Uniform & Books to BPL students	Education	2.0	March, 2022	--
TOTAL			10.5		

The amount to be spent on CER activities shall be proportionate to the amount spent on the project & such activities shall run parallel to the project execution. All the activities must be completed with the completion of the project.

Item No. 172.06 Application for issuance of TORs for setting up of new steel Ingots/Billets manufacturing unit with capacity 1,27,800 TPA & 1,25,000 TPA of Round, MS Bars, Flats, TMT Bars, Wire Rod by installing Induction Furnaces (2X15TPH OR 1X25TPH) at Village MehlonLakhowal-Kohara Road, Distt-Ludhiana, Punjab by M/s Sharu Special Alloys Pvt. Ltd-Unit II (Proposal No. SIA/PB/IND/55146/2020).

Facts of the case are as under:

1.0 Present case

The project proponent has applied for issuance of TORs to M/s Sharu Special Alloys Pvt. Ltd-Unit II for setting up of new steel Ingots/Billets manufacturing unit with capacity 1,27,800 TPA & Round, MS Bars, Flats, TMT Bars, Wire Rod with capacity of 1,25,000 TPA by installing two no. Induction Furnaces of capacity 15 TPH each or 1x25TPH, a

concast machine & a rolling mill at Village Mehlon Lakhawal-Kohara Road, Distt- Ludhiana, Punjab. The project is covered under Activity 3(a) & Category 'B1' as per EIA notification-2006.

The project proponent submitted the Form I (Appendix I), Pre-feasibility report and other additional documents on the online portal. He has also deposited the processing fee amounting to Rs. 56,250/- (25% of the total fee) through NEFT (Rs. 52,650/- submitted through with UTR no.- N199201190050550 dated 17th July, 2020 & Rs. 3,600/- with UTR no.- N200201190907528 dated 18th July, 2020).

The application was scrutinized & Essential Details were sought dated 04.09.2020, to which the project proponent replied dated 07.09.2020 and brief details are as under:

Sr. No.	Detail of Document	Reply submitted by PP dated 07.09.2020
1.	Calculation of 1,27,800TPA w.r.t Time of heat for each furnace, no. of heats/day, no. of working days	No. of heats- 12 No. of working days- 355 Production Calculation as – For 15TPH $2 \times 15 \times 12 \times 355 = 1,27,800\text{TPA}$ Or For 25TPH $1 \times 25 \times 12 \times 355 = 1,06,500\text{TPA}$ Considered Higher Production capacity i.e 1, 27,800 TPA.

Environmental Engineer, PPCB, Region Office, Ludhiana was requested vide email dated 08.09.2020 to send the report on the following points:

- i) Construction/Installation status of the proposal of the proposed project of the industry
- ii) Distance of unit from the boundary of MC Limit and Critically Polluted Area.
- iii) Status of physical structures within 500 m radius of the site including the status of industries, if any
- iv) Status of consents issued to existing unit under the Air Act, 1981 and Water Act, 1974

Accordingly, Environmental Engineer, Regional Office-I, Ludhiana vide email dated 19.09.2020 informed that the industry was visited by its AEE on 18.09.2020 and the pointwise reply are as under:-

- i) The site of the Project is Located at Village Mehlon, Lakhawal Kohara Road, Ludhiana at co-ordinates 30.8869000 , 76.0094960. At the site only a boundary wall has done and no Construction activity has been started/ No machinery is installed.
- ii) The site falls more than 5 Km from the MC Limit of Ludhiana and Critically Polluted area. The industry has also submitted the Certificate issued by the ATP ,MC, Ludhiana

vide letter no 910/ATP-B/D dated 22.10.2019, According to which the site is Located More than 5 Km from MC limit of Ludhiana. Copy of letter enclosed.

- iii) Within the Radius of 500m of site there is no Residential area, Educational Institute or religious place. There are only 3-4 industrial units within 500 m radius of this unit.
- iv) This unit is yet to establish, hence as per record no NOC/Consent has been issued to this site/project.

The details of the project as given in Form 1, Pre-feasibility Report and other documents are as under:

Sr. No.	Description	Details										
1.	Online Proposal No.	Proposal No. SIA/PB/IND/55146/2020										
2.	Name and Location of the project	M/s Sharu Special Alloys (P) Limited Unit-II Village Mehlon, Kohara-Lakhawal Road, Ludhiana, Punjab										
3.	Nature of project	Fresh EC										
4.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time.)	(a) B1 (b) Metallurgical Industries (ferrous & non-ferrous)Schedule 3(a) as per EIA notification-2006.										
5.	Details of Consent to operate under (Air/Water Act)	Not obtained, as it is a new project.										
6.	Proposed production Capacity (TPA)	1,27,800 TPA for manufacturing Ingots/Billets & 1,25,000 TPA for Round, MS Bars, Flats, TMT Bars, Wire Rod by installing Induction Furnaces of capacity 2x15 TPH or 1x25TPH, a concast machine & a rolling mill										
7.	Details TOR processing fee submitted (25% of the total project cost)	Rs. 56,250/- has been submitted of the total project cost Rs. 22.50 Crore										
8.	Undertaking to reflect that project is neither located near to PLPA area nor fall in the PLPA area	Not submitted										
9.	Co-ordinates of the project site (Latitude & Longitude) :	<table border="1" style="width: 100%;"> <tr> <td>Latitude :</td> <td>Longitude:</td> </tr> <tr> <td>30°53'39.73"N</td> <td>76°01'08.86"E</td> </tr> <tr> <td>30°53'37.34"N</td> <td>76°01'08.86"E</td> </tr> <tr> <td>30°53'02.33"N</td> <td>76°01'10.30"E</td> </tr> <tr> <td>30°53'35.29"N</td> <td>76°01'00.09"E</td> </tr> </table>	Latitude :	Longitude:	30°53'39.73"N	76°01'08.86"E	30°53'37.34"N	76°01'08.86"E	30°53'02.33"N	76°01'10.30"E	30°53'35.29"N	76°01'00.09"E
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30°53'35.29"N	76°01'00.09"E											
10	Classification/Land use pattern as per Master Plan	Industry zone										

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11	Details proof of land including Khasra no.	Khasra No. 38//8,38//4,5,6,7,33//19/2,20/1,34//16/1,17		
12	Copy of memorandum of Article & Association/partnership deed/undertaking of sole proprietorship/ list of Directors and names of other persons responsible for managing day to day affairs of the project.	Submitted		
13	No. of Working Days/Annum	355 days in a year		
14	No. of working Hrs/Day	12 hrs/day EDS reply submitted dated 07.09.2020		
15	Manpower (Existing & After expansion)	400		
16	Details of block as per CGWA guideline (Kohara Block (Non-notified) area as per CGWA guidelines.		
17	Raw Material requirement	S.No.	Raw material	Quantity (TPD)
		1.	MS Scrap	394 as per 350 working days
		2.	Ferro Alloys	4
18	Production Capacity	S.No.	Product name	Total Production (TPD)
		1.	Steel Ingots/Billets-	365
		2.	MS Round, Hexa, TMT Bars, Wire Rod, Steel Bars, Channels, Angles & Flats.	357
19	Details of major productive machinery/plant	S.No.	Particulars	Machinery/plant
		1.	Induction Furnace	2X15TPH or 1X25TPH
		2.	Concast	01 No.
		3.	Rolling mill	01 No.
20	Water Requirements & its source:	S. No.	Description	Total water demand (KLD)
		1.	Domestic water demand	18
		2.	Makeup water demand for cooling purpose	30

		Total		48		
		Green area water demand				
		Summer (KLD)	Winter (KLD)	Rainy (KLD)		
		71	23	6		
		Sources of water:				
		S. No.	Purposes	Source of water		
		1.	Domestic	Own tubewell		
		2.	Make-up water demand for cooling	Own tubewell		
		3.	Green area water demand	Treated waste water		
21.	Details of Effluent	Sr. No.	Details	Effluent generation (KLD)	Details of existing & proposed Effluent Control Device	
		i)	Industrial Effluent	Nil	---	
		ii)	Domestic Effluent	14.4	Will be treated in STP of 20 KLD capacity. Treated water will be reused in plantation.	
22.	Details of Emissions	Sr. No.	Source	Capacity (TPH)	Chimney Height (m)	Details of existing & proposed Air Pollution Control Device
		i)	Induction Furnace	2X15 TPH or 1X15 TPH	30	Side Suction Hood, Spark Arrestor, Bag House, ID Fan (Offline cleaning pulsejet bag filter)
		ii)	D.G. set	350 kVA	2.5m above roof level	----
23.	Details of Hazardous waste and its disposal	Sr. No.	Hazardous Waste	Category	Quantity (TPA)	Disposal arrangement

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		1.	Gas Cleaning Residue (APCD dust)- Bag filter	35.1	490	Will be sent To TSDf Site / Madhav Alloys for Final Disposal
		2.	Gas Cleaning Residue (APCD dust)- Alkali scrubber	35.1	---	---
		3.	Used Oil (kl/annum)	5.1	0.03 kl/annum	Will be reused as lubricant in the industry.
24.	Solid waste generation and its disposal(After expansion)	Sr. No.	Solid Waste	Quantity (TPD) (After Expansion)	Disposal arrangement	
		(i)	Slag	21.6	Will be Sent to manufacturers of cement concrete blocks, pavers & tiles under the proper agreement.	
25.	Energy Requirements (After expansion)	22000 KW				
26.	Status of Proposed ToRs	Submitted.				

2.0 Deliberations during the 193rd meeting of SEAC held on 26.09.2020

The meeting was attended by Sh. Gaurav Jain, Director of the company and Sh. Seetal Singh, EIA Coordinator, M/s CPTL, Mohali. Environmental Consultant of the promoter company was allowed to make the presentation before SEAC. During the meeting, the following observations were made to which the project proponent replied as under:

Sr. No.	Query	Reply
1.	The project proponent asked to install either 2×15 TPH induction furnace or 1×25 TPH induction	The project proponent agreed to install induction furnaces of 2×15 TPH with a production capacity of 1, 27,800 TPA.

		An undertaking submitted in this regard was taken on record.
2.	The project proponent was asked about the time of heat and calculation for production capacity	PP replied as under: No. of heats- 12 Time of heat- 90-120min No. of working days – 355 Production calculation as:- For 15 TPH $2 \times 15 \times 12 \times 355 = 1,27,800 \text{ TPA}$
3.	Details of block as per CGWA guideline (Notified/Non-Notified area) in which project site is located	The project site falls in Kohara Block which is a Non-notified area as per CGWA guidelines.

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

Environmental Consultant informed that they had conducted baseline monitoring in the year 2018 (March, April, May, 2018) for M/s Renny Alloys Pvt Ltd which is closely located from the proposed project site. He requested to kindly accept the study as per the OM dated 29.08.2017 issued by the MoEF&CC, New Delhi as baseline data is not older than 3 years. SEAC accepted the request of the environmental consultant to consider the study carried out as a baseline study. However, it was decided that 01 months additional study shall be carried out with effect from the date of submission of application.

3.0 Recommendations

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 baseline study shall be carried out by Environmental Consultant for one-month additional study with effect from date of application of ToRs (except monsoon season), which shall include at least five days of traffic study. The Committee approved the following Terms of Reference for installing induction furnaces 2 x 15 TPH at Village Mehlon Lakhawal- Kohara Road, Distt- Ludhiana, Punjab for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the following TORs:

A. 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 its 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. If 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, SO₂, NO_x, 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 (2.85 acres land) 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 otherwise project proponent shall submit the Change of land use of the project site for total land area 2.85 acres.
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 FeSO₄ 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. Delineate the concrete proposal regarding activities to be undertaken under Corporate Environmental Responsibility indicating the followings: -
 - i) various activities to be undertaken as per the provision of OM dated 01.05.2018
 - ii) proportionate provisions of funds,
 - iii) the period in which CER activities is to be implemented
 - iv) the person(s) responsible for the implementation.
21. 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.
22. 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.
23. 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

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

4.0 Deliberations during the 172nd meeting of SEIAA held on 12.10.2020.

The case was placed before SEIAA in its 172nd meeting held on 12.10.2020 and the same was attended by the following through video conference: -

- (i) Sh. Garav Jain, Director of the promoter company
- (ii) Sh..Sital Singh, CPTL, Environmental Consultant of the promoter company.

Environmental Consultant of the Promoter Company presented the salient features of the project and requested for issuance of TORs. A copy of the presentation submitted by the project proponent was taken on record by the SEIAA.

To a query of SEIAA regarding the provision of green area, Environmental Consultant replied that 33% green area has been proposed in the unit in consonance with the requirement of MoEF&CC.

During discussions, the Environmental Consultant of the promoter company agreed to prepare a detailed EIA on the basis of Terms of Reference as recommended by the SEAC. He further requested to allow them to utilize the baseline monitoring data collected for M/s Renny Alloys Pvt Ltd.

SEIAA observed that SEAC had already accepted the request of the environmental consultant with a condition to carry out 01 months of additional study with effect from the date of submission of application. Accordingly, SEIAA accepted the request of the Environmental Consultant.

The SEIAA observed that the SEAC has categorized the project into B-1 category (activity listed 3 (a) of the schedule) with public consultation and has recommended specific TORs for undertaking detailed EIA & EMP for such type of projects. The SEIAA looked into the details of the case and was satisfied with the same.

After detailed deliberations, SEIAA decided to accept the recommendation of SEAC and issue the terms of reference for preparing the Environmental Impact Assessment (EIA) report as proposed by SEAC.

Item No. 172.07 Application for issuance of TORs for manufacturing of 1,05,000 TPA of Alloys/Non Alloys Steel Billets/Ingots and 1,00,000 TPA of Structural Steel (Round, Coil, Flats, Wire Rod, TMT Bars) by upgrading existing furnace to 10TPH, addition of one no. IF of capacity 15TPH, a Concast and a Rolling Mill having capacity 15TPH respectively at Village- Bhagwanpura, Dehlon Road, Tehsil- Ludhiana East, District- Ludhiana, Punjab by M/s J.N. Tayal Steels Pvt. Ltd. (Proposal No. SIA/PB/IND/46655/2019)

Facts of the case are as under:-

1.0 Background

The project proponent has applied for issuance of TORs for installing two Induction Furnaces of capacity 1x15 TPH & 1 x 10 TPH by replacing induction furnaces of 1x 8 TPH, and a concastmachine for manufacturing of Steel Ingots/Billets with capacity 1,05,000 TPA & installing a Rolling Mill for manufacturing Round, Coil, Flats, Wire rod, TMT Bars with capacity of 1,00,000 TPA to M/s J.N. Tayal Steels Pvt. Ltd. located at Village- Bhagwanpura, Dehlon Road, Tehsil- Ludhiana East, District- Ludhiana, Punjab. The Project is covered under Activity 3(a) & Category 'B1'.

The project proponent submitted the Form I, Pre-feasibility report and other additional documents on online portal. He has also deposited the processing fee amounting to Rs. 32,275/- (25% of the total fee) through NEFT No. SBIN20071284811 dated 11.03.20. w.r. t Rs. 12.91 crores.

The application was scrutinized & Essential Details were sought to which project proponent replied vide Email dated 12.03.20, 03.06.20 and 21.07.20 respectively.

2.0 Deliberations during the 191st meeting of SEAC held on 04.03.2020

The meeting was attended by Sh. Jitin Tayal, Director of the company through Video Conference and Sh .Sh. Sital Singh, EIA Coordinator, M/s CPTL, Mohali.

Environmental Engineer, PPCB, RO 4, Ludhiana was requested vide email dated 31.12.2019 and 03.02.20 to send the construction status of the project site. Accordingly, they replied vide letter dated 17.03.20 that the industry was visited on 16.03.20 and it was observed as under:-

Sr. No.	Description of points	Reply
1	Construction /installation status of the expansion proposal of the proposed project of the industry	No construction activity regarding the expansion of the industry is in progress at site.
2	As to whether existing production is less than 30000 TPA. Please send the detailed report.	The computerized record of production of the industry w.e.f April 2019 to Feb, 2020 has been collected during visit and as per the record of the industry, the total production of the industry since April, 2019 is 27464 Ton.
3.	Distance of unit from the boundary of MC limit and Critically Polluted Area	As per the DTP, Ludhiana letter no. 3684 DTP(L)/M2A dated 26.11.2019, the site of the industry is located at a distance 6.2 KM from the MC limit and the site of the industry falls in Medium & Heavy industry zone as per notified Master Plan, Ludhiana (2007-2021)
4.	Status of physical structures within 500 m radius of the site including the status of industries, if any.	There are 18 no. industries are located within the 500 m radius of the site of the industry
5.	Status of consents issued to existing unit under the Air Act, 1981 and the Water Act, 1974.	The industry was granted consent to operate under the Water Act, 1972 vide no. CTOW/Fres/LDH4/2019/9761041 dated 28.06.2019 which is valid upto 30.06.2023 and under the Air Act, 1981 vide no. CTOA/Fresh/LDH4/2019/9760969 dated 28.06.2019 which expired on 27.12.2019. The industry has also applied for renewal of consent to operate under Air Act, 1981 which is under process.
6	As the whether, the existing unit complying with condition of consent to operate under Air Act, 1981 and Water Act, 1973 granted to it.	Yes

Environmental Consultant of the promoter company submitted the presentation for new proposal, which was taken on record. As per the presentation, the details of the salient features of the project are as under:

Sr. No.	Description	Details
1.	Online Proposal No.	SIA/PB/IND/46655/2019
2.	Name and Location of the project	M/s J.N. Tayal Steels Pvt. Ltd. at Village-Bhagwanpura, Dehlon road, Tehsil- Ludhiana east, District- Ludhiana

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held on 12.10.2020"

3.	In case of expansion projects, whether granted EC earlier, if Yes, then provide its details	It is an expansion project. But due to existing capacity of 29,610 TPA, earlier EC was not required.
4.	Nature of project (Fresh EC/EC for Expansion/New)	Fresh EC
5.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time.)	(a) B1 (b) 3(a) Metallurgical Industries (ferrous & non ferrous)
6.	Whether project falls within 5km from the boundary of critically polluted area (Yes/No)	The project site is located at distance of 6.20 km from MC Limit Ludhiana. Distance certificate vide letter no.- 3684DTP(L)/M2A dated 26/11/2019 obtained from District Town Planner, Ludhiana has been submitted
7.	Details of Consent to operate under (Air/Water Act) of existing project	Consent to operate under (Air/Water Act) has been submitted
8.	Existing production Capacity (TPA)	Alloys/Non alloys Steel Ingots- 29,610 TPA
9.	Details TOR processing fee submitted (25% of the total project cost)	25% of the total project cost i.e. a sum of Rs. 32,275/- has been submitted through RTGS vide UTR No. SBIN120071284811 dated 11.03.20.
10.	Co-ordinates of the project site (Latitude & Longitude) :	Latitude : 30°47'43.57"N 30°47'43.47"N 30°47'41.80"N 30°47'41.80" N Longitude: 75°56'38.92"E 75°56'30.28"E 75°56'30.78"E 75°56'38.87"E
11.	Classification/Land use pattern as per Master Plan	The site falls in Industrial zone as per master plan (2007-21)
12.	Details of CLU certificate	CLU has been obtained vide memo no.- 890 STP(L)/TW-12A dated 10/03/2010 for land Area 1.86 Acres having Khasra no. 18/18,4//21/2,22/2,5//4/2,7,14,17,18,23,24,25/,6//3/1,4/1,5,6/1,7/1,7//1,2,9/1,10/1 As per CLU record, the site falls in Medium & heavy Industry zone as per master plan (2007-21).
13.	Copy of memorandum of Article & Association/ partnership deed/undertaking of sole proprietorship/ list of Directors and names of other persons responsible for managing day to day affairs of the project.	Submitted copy of memorandum
14.	No. of Working Days/Annum	350 days in a year
15.	No. of working Hrs/Day	21 hrs/day

16.	Manpower (Existing & After expansion)	Existing - 45 Proposed – 55 After Expansion - 100			
17.	Details of block as per CGWA guideline (Notified/ Non Notified area) in which project site is located	The project site falls in Samrara Block which is Non-notified area as per CGWA guidelines.			
18.	Project Area Details as per Pre-Feasibility report :				
	S.no.	Details	Existing Land	Proposed Additional Land	Total land after Expansion
	1.	Plot Area (in sqm as per registry)	11533	---	11533 (2.85 Acre)
19.	Total Project cost	Rs. 12.91 Crore			
20.	Raw Material requirement as per following format:				
	S.No.	Product name	Existing (TPA)	Proposed (TPA)	After Expansion (TPA)
	1.	MS Scrap	32,500	82,900	1,15,400
	2.	Ferro Alloys	1050	3,150	4,200
21.	Production Capacity as per following format :				
	S.No.	Product name	Existing (TPA)	Proposed (TPA)	After Expansion (TPA)
	1.	Alloy/ Non alloy Steel Billets/Ingots	29,610	75,390	1,05,000
	2.	Structural Steel (Round, Coil, Flats, Wire rod, TMT bars)	Nil	1,00,000	1,00,00
22.	Details of major productive machinery/plant				
	S.No.	Particulars	Existing	Proposed	After Expansion
	1.	Induction Furnace	1X8 TPH	Existing 8TPH will be upgraded to 10TPH, 1X15 TPH	1X10 TPH 1X15 TPH
	2.	Rolling Mill	Nil	1 No. (15TPH)	1 No. (15TPH)
	3.	CCM	Nil	01 No.	01 No.

23.	Water Requirements & its source :				
	S. No.	Description	Existing water demand (KLD)	Proposed water demand (KLD)	Total water demand (KLD)
	1.	Domestic water demand	4.5	3.0	7.5
	2.	Make up water demand for cooling purpose	8.0	15.0	23.5
	Total		12.5	18.0	30.5
Sources of water:					
Sr. No.	Purposes	Source of water			
1.	Domestic	Own tubewell			
2.	Make-up water demand for cooling	Own tubewell			
3.	Green area water demand	Treated waste water			
24.	Details of Effluent : The waste water generated from domestic and cooling purposes will be treated through STP of 10 KLD capacity and will be used for plantation as mentioned PFR.				
25.	Details of Hazardous waste and its disposal (After expansion)				
	Sr. No.	Hazardous Waste	Category	Quantity (TPD) (After expansion)	Disposal arrangement
	1.	Gas Cleaning Residue (APCD dust)- Bag filter	35.1	0.86	Will be sent to TSDF site or M/s Madhav alloys for final disposal
	2.	Gas Cleaning Residue (APCD dust)- Alkali scrubber	35.1	--	--
3.	Used Oil (kl/annum)	5.1	--	Will be reused as lubricant in the industry y.	
26.	Solid waste generation and its disposal (After expansion)				
	Sr. No.	Solid Waste	Quantity (TPD) (After Expansion)	Disposal arrangement	
(i)	Slag	28.11	Will be sent to approved manufactures of concrete blocks, pavers and tiles.		
27.	Energy Requirements (After expansion)		16000KW Source - PSPCL		

During the meeting, the following observations were made to which project proponent replied as under:

Sr. No	Observations	Reply
1.	Production of the exiting plant is reported 29610 TPA. How many heats per day is taking by the units and accordingly provide the calculations?	Project proponent submitted the computerized record of production of the industry w.e.f April, 2019 to March 2020. As per the said record of the industry, the total production of the industry for a year was 29417.925 MT. He further informed that he was taking total 11 heats in a day and the maximum production, which can be achieved in year considering 330 working days on average basis is $8 \times 11 \times 335 = 29480$ MT.
2.	Please provide the details of project area of land to be considered and existing and proposed amenities to be marked on the layout plan.	The project area to be considered is 2.85 acres as per the registry of land submitted. Out of 2.85 acres land, the CLU is granted to 1.85 acre. The CLU of balance 1 acre will be obtained. The existing and proposed amenities has been marked on the layout plan and same has already been submitted, which was taken on record.
3.	As to whether 33% green area proposed in consonance with the requirement of MoEF	PP submitted that 33% green area will be provided w.r.t 2.85 acres of land.

3.0 Recommendations

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 baseline study shall be carried out by Environmental Consultant for full season except monsoon season, which includes at least three days of traffic study. The Committee approved the following Terms of Reference for preparing Environmental Impact Assessment (EIA) report for the proposed project and recommended to SEIAA to issue the following TORs:

A. 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 its 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. If 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, SO₂, NO_x, 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 3 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)
- (ii) 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

- 1) Details of proposed layout clearly demarcating existing & proposed features of the project within the plant.
- 2) Total no. of furnaces & details including capacity of each furnace.
- 3) Detail of the mechanical shredder to reduce the size of the raw material.
- 4) Complete process flow diagram describing each unit, its processes, and operations, along with material and energy inputs and outputs (material and energy balance).

- 5) Details on the design and manufacturing process for all the units.
- 6) Details on environmentally sound technologies for recycling of hazardous materials, as per CPCB Guidelines, may be mentioned in case of handling scrap and other recycled materials.
- 7) Details on the requirement of raw materials, its source, and storage at the plant.
- 8) 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).
- 9) Details on toxic metal content in the waste material and its composition and end-use (particularly of slag).
- 10) 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.
- (ii) 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 otherwise 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 FeSO₄ 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) Delineate the concrete proposal regarding activities to be undertaken under Corporate Environmental Responsibility indicating the followings: -
 - i) various activities to be undertaken as per the provision of OM dated 01.05.2018
 - ii) proportionate provisions of funds,
 - iii) the period in which CER activities is to be implemented
 - iv) the person(s) responsible for the implementation.
- 21) 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.
- 22) 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.

23) 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	
						Per Unit	Per day

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

- 25) 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.
- 26) Examine the quantity of hazardous waste for category 5.1 & 35.1 generated from the unit and shall submit its disposal arrangements.
- 27) Examine the source of water to meet the requirement of green area in the summer season.

The following general points shall be noted:

- (i) The EIA document shall be printed on both sides, as far 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 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.

4.0 Deliberations during 168th meeting of SEIAA held on 07.08.2020

The case was placed before in its 168th meeting held on 07.08.2020 and the same was attended by the following:-

1. Sh. Mohan Tayal, Director of the Promoter Company.
2. Sh. Sital Singh, EIA coordinator, M/s CPTL Mohali.

Before allowing the project proponent to present the salient features of the project, SEIAA queried to the project proponent regarding the distance of the site from the MC limit of Ludhiana. To this, the project proponent replied that as per the DTP, Ludhiana letter no.- 3684DTP(L)/M2A dated 26/11/2019, the project site is located at the distance of 6.20 km from MC Limit Ludhiana.

SEIAA perused the distance of the project site from MC Limit on the google earth software and it was observed that the distance of the mining site is very near to 5.0 Km. As such, a certificate issued by the DTP, Ludhiana is misleading the facts.

SEIAA was not satisfied with the reply of the project proponent. SEIAA observed that it is a boundary case and in order to verify as to whether General Condition applies to the project or not, a concrete report regarding the distance of the site from MC limit is required to be obtained in the matter from the PPCB.

After detailed deliberations, SEIAA decided to defer the case and request the Member Secretary, PPCB to send the report clarifying as to whether the site of the industry falls within the 5 KM radius of the MC limit (critically polluted area Limit) or outside the said radius, within fifteen days so that further action in the matter can be taken.

The decision of SEIAA was conveyed to the Board vide letter no 2016 dated 08.02.2020. Now, PPCB vide email dated 18.09.2020 (Annexure-A of agenda) informed that the industry has submitted an actual distance certificate from revenue authorities mentioning that the industry is located at a distance of 6.1 KM from the nearest M.C. limits. The

letter produced by the industry was attached along with for your kind perusal and further necessary action.

5.0 Deliberations during the 172nd meeting of SEIAA held on 12.10.2020.

The case was placed before SEIAA in its 172nd meeting held on 12.10.2020 and the same was attended by the following through video conference: -

- (i) Sh. Mohan Tayal, Director of the promoter company
- (ii) Sh. Sital Singh, CPTL, Environmental Consultant of the promoter company.

SEIAA was apprised that as per the letter sent by PPCB, Naib Tehsildar, Dehlon reported that the project site is 6.1 Km away from the limit of MC Ludhiana.

SEIAA observed that as the site is located more than 5.0 Km from the limit of MC Ludhiana, the General Condition will not apply to the project and the competency to decide the case lies with it.

To a query of SEIAA regarding the provision of green area, Environmental Consultant replied that 33% green area has been proposed in the unit in consonance with the requirement of MoEF&CC.

During discussions, the Environmental Consultant of the promoter company agreed to prepare a detailed EIA on the basis of Terms of Reference as recommended by the SEAC.

The SEIAA observed that the SEAC has categorized the project into B-1 category (activity listed 3 (a) of the schedule) with public consultation and has recommended specific TORs for undertaking detailed EIA & EMP for such type of projects. The SEIAA looked into the details of the case and was satisfied with the same.

After detailed deliberations, SEIAA decided to accept the recommendation of SEAC and issue the terms of reference for preparing the Environmental Impact Assessment (EIA) report as proposed by SEAC.

Item No. 172.08: Application for issuance of TORs for carrying out EIA study for obtaining environmental clearance under EIA notification dated 14.09.2006 for expansion (Construction of Super Specialty Block) of existing Rajindra hospital Patiala located at Sangrur-Patiala Road Patiala, Punjab (Proposal no. SIA/PB/NCP/ 22981 / 2018).

Facts of the case are as under:

1.0 Background

Rajindra Hospital, Patiala has applied for issuance of TORs for carrying out EIA study for obtaining environmental clearance under EIA notification dated 14.09.2006 for expansion (Construction of Super Specialty Block) of the existing hospital located at Sangrur-Patiala Road Patiala Punjab.

As per amendment notification vide No S.O. 804 (E) dated 14-03-2017, violation cases even of category "B" projects which are granted Environmental Clearance by SEIAA, are to be appraised for grant of Environmental Clearance only by the EAC and granted at the central level

Accordingly, they had submitted the online application for issuance of ToRs for obtaining environmental clearance vide proposal no. IA/PB/NCP/68281/2017 on 10/09/2017.

MoEF&CC issued amended notification dated 08.03.2018 and the gist of relevant paras (2), (4) and (5) of the notification, is reproduced as under: -

Para (2) For category B projects, the appraisal, and approval thereof shall vest with the State or Union territory level Expert Appraisal Committees and State or Union territory Environment Impact Assessment Authorities in different States and Union territories, constituted under sub-section (3) of section 3 of the Environment (Protection) Act, 1986.

Para (4) The cases of violations will be appraised with a view to assess that the project has been constructed at a site which under prevailing laws is permissible and expansion has been done which can run sustainably under compliance of environmental norms with adequate environmental safeguards, and in case, where the findings of Expert Appraisal Committee for projects under category A or State or Union territory level Expert Appraisal Committee for projects under category B is negative, closure of the project will be recommended along with other actions under the law.

Para (5) In case, where the findings of the Expert Appraisal Committee or State or Union territory level Expert Appraisal Committee on point at sub-paragraph (4) above are affirmative, the projects will be granted the appropriate Terms of Reference for undertaking Environment Impact Assessment and preparation of Environment Management Plan and the Expert Appraisal Committee or State or Union territory level Expert Appraisal Committee, will prescribe specific Terms of Reference for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan.

In view of the above, MoEF&CC has transferred the project to SEIAA vide proposal no. SIA/PB/NCP/22981/2018 on 28/03/2018.

Deliberation during 167th meeting of SEAC held on 26.05.2018

The matter was considered by SEAC in its 167th meeting held on 26.05.2018. In the said meeting, the SEAC was apprised that Dr. Vinod Kumar Dangwal after marking attendance left the venue with a message that he could not appear before SEAC due to some emergency in the hospital. The SEAC was further apprised that project proponent has not yet submitted a hard copy of the application after acceptance of its online application as stipulated vide MoEF OM No. J-11013/49/2014-IA.I dated 06/06/2014.

After detailed deliberations, SEAC decided to defer the case and ask the project proponent to submit a hard copy of the application. Till such time his case will not be taken up for consideration. Accordingly, ADS was raised online on 14.06.2018.

Thereafter, notice was issued to the project for delisting the case vide no. 932 dated 29/10/2019

Deliberation during 185th meeting of SEAC held on 29.11.2019

The case was considered by SEAC in its 185th meeting held on 29.11.2019, which was attended by the authorized representative on behalf of the project proponent. SEAC was apprised that the project is a violation case and was applied in the window given by MoEF vide notification dated 14.03.2017. SEAC was further apprised that as per the clause 3 of the said notification in cases of violation, action will be taken against the project proponent by the respective State Pollution Control Board under the provisions of section 19 of the Environment (Protection) Act, 1986 and further, no consent to operate or occupancy certificate will be issued till the project is granted the Environmental Clearance.

SEAC raised the following observations to the project proponent:

- i) As to whether a hard copy of the application/Complete Proposal along with a list of persons responsible for the violation has been submitted.
- ii) As to whether the project has been constructed at a site which under prevailing law is permissible. if yes, has the project proponent submitted any documentary proof in this regard.
- iii) Whether any additional land has been acquired by the project proponent and the construction has been completed?
- iv) Whether permission has been obtained for the abstraction of the groundwater from the CGWA or not?
- v) Whether any specific TORs for the project on assessment of ecological damage, remediation plan and natural and community resources augmentation plan have been submitted?

To the above observations, the project proponent informed that no additional land has been procured, however, sought time to comply with the other observations. After detailed deliberations, SEAC decided to accept the request of the project proponent, to defer the case, and the same be placed in the next meeting after getting the reply from the project proponent. The observations were conveyed to the project proponent vide letter no1428 dated 03.02.2020.

Accordingly, the project proponent submitted its online reply vide letter dated 28.04.2020 on 30.04.2020.

2.0 Present Case

2.1 Summary of the project

The project proponent submitted the application for TOR along with the summary of the project and EMP and detail of the project is given as under:

S.No.	Item	Details
1	Name & Location of the project	Rajindra Hospital Patiala, located at Sangrur-Patiala Road Patiala, Punjab
2	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	8(a) 'Building & Construction Project'
3	Copy of the Master plan duly marked with the project site	Submitted
4	Pre-feasibility report as per Ministry of Environment & Forests, Circular dated 30.12.2010.	Submitted along with a conceptual plan.
5.	Proof of ownership of land	Not Submitted
6.	Copy of Memorandum of Article & Association/partnership deed /undertaking of sole proprietorship/list of Directors and names of other persons responsible for managing the day-to-day affairs of the project.	Submitted
7	Proposed ToRs (based on the standard ToRs)	Submitted
8	Does it attract the general condition? If yes, please specify	No
9	Whether the proposal involves approval/clearance under the Forest (Conservation)Act,1980	No
10	Does the project cover under PLPA, 1900	No
11	Whether the proposal involves approval/clearance under the Wildlife (Protection)Act,1972?.	No

12	Classification/Land use pattern as per Master Plan	Not submitted. However, it has mentioned that the site is allotted for Hospital by Govt. of Punjab. No further change in land use is required.		
13	Cost of the project	103.61 Crores.		
14.	TORs Fee details	NA as the application submitted on 10.09.2017 i.e. before the date of Notification 27.06.2019		
15.	Total Plot Area, Built-up Area, and Green area			
	DESCRIPTION	EXISTING	ADDITIONAL	TOTAL
	Total Area	44.53 acres	-	44.53 acres
	Built-up Area	1,12,949	19850	1,32,799 sqm
	Indoor Beds	1097	NIL	1097
16.	Sourceofwatersupply	Ground Water Supply		
17.	Quantityofwater	1.2 MLD		
18.	WasteWatergeneration	0.950 MLD		
19.	Effluentutilization	Gardening/ Plantation: 300 KLD & Public Sewer: 650 KLD		
20.	Rainwaterharvesting	32007m ³ /annum		
21	Air pollutioncontrol	ChimneyonDG sets		
22	Solidwaste	5200kg/day Bio-degradable: 1260Kg/day Re- cycleable: 3120kg/day Inert/e-waste: 820kg/day		
23	Hazardouswaste	Used oil-500ltr/annum- to authorized reyclers BMW- 900kg/day- to CBMWTF		
22.	Energy Requirements & Saving	6.0 MW from the P.S.P.C.L 04 DG sets (900 KVA) as power backup i) Total Plot Area : 1, 80,244 m2 ii) Roof Top Area: 57155 m2 iii) The area marked for utilization of solar @30%: 5715 m2 iv) Area required for 1KW solar power generation: 15 m2 v) Total Solar power generation from the project: 381KW vi) Project Proponent will provide the 381 KW solar power generation plant.		

2.2 Complete details of the case are summarised as under:

1	Proposal No	SIA/PB/NCP/22981/2018
2	Date of submission of application	10.09.2017
3	Date of acceptance of application	22.05.2018
4	Meeting of SEAC in which case was considered	167 th meeting held on 26.05.2018
5	Observations	As mentioned above.
6	Date of ADS	14.06.2018
7	Details of notice issued, if any	vide no. 932 dated 29/10/2019
8	Reply to the notice received or not	Not received but attended the 185 th meeting of SEAC.
9	Lastly, the case was considered by SEAC	185 th meeting held on 29.11.2019
10	Observations	As mentioned above
11	Observation conveyed to the Project Proponent	Vide no 1428 dated 03.02.2020.
12	Reply received in reference to letter no 1428 dated 03.02.2020	The project proponent submitted its reply online to the ADS on 30.04.2020.

3.0 Deliberation during 189th meeting of SEAC held on 28.05.2020

The meeting was attended by the following through video conference:

- i) Dr. Paras Pandey, Medical Superintendent, Rajindra Hospital Patiala.
- ii) Sh. Sital Singh, EIA coordinator, M/s Chandigarh Pollution Testing Laboratory, E-126, Phase-VII, Industrial Area, Mohali, Punjab, Environmental consultant of the Project Proponent.

SEAC observed that document submitted by the Project Proponent regarding the details of the directors of the company and list of persons responsible for the violation of the EIA notification dated 14.09.2006 was not duly signed and stamped by the EIA Coordinator & the project proponent.

Dr. Paras Pandey, Medical Superintendent informed the SEAC that the list of persons responsible for violation submitted by the Hospital Authority as part of the reply vide letter dated 28.04.2020 was not correct and the revised list in this regard be submitted shortly.

SEAC further observed that as per the said notification, in cases of violation, action has to be taken against the project proponent by the respective State Pollution Control Board under the provisions of section 19 of Environment (Protection) Act, 1986.

It was apprised to the SEAC that SEIAA vide letter no 354 dated 02.04.2019 had sent a list of 13 violation projects including the name of this project to PPCB to deal with these cases in accordance with the provisions of MoEF&CC Notification dated 14.03.2017 & 18.03.2018.

After detailed deliberations, SEAC decided that the following action be taken:

- a) SEIAA be requested to ask the PPCB to provide the details of the legal action taken against the responsible persons of the project in response to SEIAA letter no 354 dated 02.04.2019 and the construction status of the project (completed/not completed, if not completed then % of built-up area completed as on)
- b) Project proponent be asked to submit a copy of Memorandum of Article & Association/partnership deed/undertaking of sole proprietorship/List of Directors and names of other persons (with designation & complete address) responsible for the violation of the EIA Notification 14.09.2006 duly signed by the EIA Coordinator & him and verified signature of the authorized signatory duly signed by the EIA Coordinator & the project proponent.

In compliance with the decision (b) of SEAC, the project proponent was asked vide letter no 1685 dated 17.06.2020 to submit the information as above.

4.0 Deliberation during 166th meeting of SEIAA held on 26.06.2020

The case was considered by the SEIAA in its 166th meeting held on 26.06.2020. To a query of SEIAA, it was apprised that a detailed verification report regarding the extent of violation in the matter is yet to be received from the Regional Office, Patiala. After detailed deliberations, it was decided to defer the case and Regional Office, Patiala of PPCB be asked to send the construction status report of the project as proposed by SEAC and comments on the applicability of the EIA Notification, 14.09.2006 on Super Specialty Block of the Rajindra Hospital. The case be placed again before SEIAA after receiving a report from the Regional Office, Patiala of PPCB.

In compliance to the above decision, Regional Office, Patiala of PPCB was asked vide letter no. 1896 dated 29.07.2020 to send the construction status report of the project as proposed by SEAC and comments on the applicability of the EIA Notification, 14.09.2006 on Super Specialty Block of the Rajindra Hospital. A copy of the same was also endorsed vide letter no. 1897 dated 29.07.2020 to the Member Secretary, PPCB for information.

In reference to above letters, the Member Secretary, PPCB vide letter no 3209 dated 14.09.2020 informed that the site was visited by AEE of Regional office, Patiala on 07.08.2020 in presence of Sh. Harjinder Singh Principal, Govt. Rajindra Hospital and he reported that the building of Super Speciality Block has already been completed. The built up area of new Super Specialty Block is 18,766 sqm, which is less than 20,000 Sqm. But, the built up area of old existing building of Govt. Rajindra Hospital is 1,12,949 Sqm,

which was built prior to 2006. Now, the total built up area of the HCE is 1,31,715 sqm for which environmental clearance is required.

5.0 Deliberations during 172nd meeting of SEIAA held on 12.10.2020.

The case was considered by the SEIAA in its 172nd meeting held on 12.10.2020 which was attended by Dr. Vinod Dangwal, Deputy Medical Superintendent from the Rajindra Hospital and Sh. Sital Singh Environmental Consultant.

SEIAA told that PPCB had sent a report wherein it was reported that the site was visited by the AEE of Regional Office Patiala on 07.08.2020 in the presence of Sh. Harjinder Singh, Principal Govt. Rajindra Hospital and it was observed that the total built-up area of the HCE is 1,31,715 sqm for which EC is required.

To this, Deputy Medical Superintendent informed that new project namely Super Speciality Hospital, is separate from the existing building of Govt. Rajindra Hospital. The built-up area of Super Speciality Hospital is 18,766 sqm and the services like STP, sewerage lines, Water Supply lines and Electricity are separate from the old existing building of Rajindra Hospital. Both the projects are separate from each other. Since, the built-up area of Super Speciality Hospital is less than 20,000 sqm and does not attract the provision of EIA Notification, 14.09.2006, he may be allowed to withdraw his EC application.

SEIAA observed that the Project Proponent has not submitted any documentary evidence to prove his contention.

After detailed deliberations, SEIAA decided to defer the case and ask the project proponent to submit the concrete documents to prove his contention. After getting the reply from the project proponent, the case be placed in the next meeting of SEIAA.

Item No 172.09 Application for issuance of TOR for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of Mega Residential Project "The Palm" located at Villages MullanpurGaribdas, Dhanauran & Mastgarh, New Chandigarh, Mohali, S.A.S Nagar, Punjab by M/s Manohar Infrastructure & Constructions Pvt. Ltd. (Proposal No. SIA/PB/NCP/34917 /2019).

Facts of the case are as under:-

1.0 Background

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

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

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

1. That the project is adjoining to the already existing project Curo North Square, Village Mullanpur, Garibdass by M/s Curo India Pvt., Limited at the front side of the project.
2. The project proponent had earlier obtained NOC for the project vide no. CTE/Exp/SAS/2018/7069127 dated 23.05.2018 valid upto 31.03.2020 for an area of 192.459 acres (net planned area 118.04 acre) having 862 residential plots, 11 public building, EWS flats in an area of 6.84 acre and commercial area of 2.04 acre with the conditions that:-

(a) The promoter shall ensure the compliance of provisions (including providing of 15 meter green belt towards air pollution industries) contained in notification no. 3/6/07-STE(4)2274 dated 25.07.2008 notified by the Government regarding siting policy/guidelines for the establishment of residential colonies, commercial establishments like shopping malls, multiplexes in the State of Punjab, before starting any development/construction activities at the site.

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

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

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

As per the boundary limits site shown by the representative of the promoter company during the visit, there is no MAH industry within a radius of 250 m from

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

This is for information and further necessary action please."

1.1 Deliberation during 187th meeting held on 26.02.2020

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

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

SEAC was apprised that as per the visit report sent by EE, Mohali, no construction has been started by the project proponent for the proposal for which expansion has been sought. Thereafter, SEAC allowed the Project proponent to present the salient features of the project and the Environmental Consultant of the same presented as under:

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/NCP/34917/2019
2.	Name and Location of the project	Mega Residential Project "The Palm" Villages MullanpurGaribdas, Dhanauran & Mastgarh, New Chandigarh, Mohali, S.A.S Nagar, Punjab developed by M/s Manohar Infrastructure & Constructions Pvt. Ltd.
3.	Latitude & Longitude	Corners coordinates A: 30.464307 N & 76.435618 E B: 30.470816 N & 76.435250 E C: 30.474981 N & 76.447546 E D: 30.475319 N & 76.445784 E E: 30.470424 N & 76.452656 E
4.	Project/activity covered under	S.No. 8(b); 'Township and Area Development'

	item of scheduled to the EIA Notification, 14.09.2006													
5.	Whether the project is in critical polluted area or not.	No												
6.	Does the project involve the diversion of forest land?	No. Project does not involve any diversion of forest land.												
7.	Does the project covered under PLPA, 1900, if No but located near to the 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.	The project is not covered under PLPA 1900. However, NOC has also been obtained from DFO, S.A.S Nagar for the complete project.												
8.	If the project falls within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary. If yes, a. Name of eco-sensitive area/ National park/Wild Life Sanctuary and distance from the project site. b. Status of clearance from the National Board for Wild Life (NBWL).	Sukhna Wildlife Sanctuary and City Bird Sanctuary are located at a distance of 5.6 km and 6.8 km respectively from the project location and application has been submitted for NBWL clearance.												
9.	Classification / Land use pattern as per Master Plan	Residential zone as per the Master plan of Mullanpur. CLU was obtained for 131.55 acres of land and later on, additional CLU of 60.909 acres has been obtained												
10.	Cost of the project	Rs. 914.20 Crores												
11.	Total Plot Area, Built-up Area, and Green area	The details of the project are as under: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sr. No.</th> <th style="width: 60%;">Description</th> <th style="width: 30%;">Area</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Plot area (Total scheme area)</td> <td>6,11,439.536 m² (or 151.09 acres)</td> </tr> <tr> <td>2.</td> <td>Built-up area</td> <td>8,53,320.49 m²</td> </tr> <tr> <td>3.</td> <td>Green area</td> <td>34,034.0625 m²</td> </tr> </tbody> </table>	Sr. No.	Description	Area	1.	Plot area (Total scheme area)	6,11,439.536 m ² (or 151.09 acres)	2.	Built-up area	8,53,320.49 m ²	3.	Green area	34,034.0625 m ²
Sr. No.	Description	Area												
1.	Plot area (Total scheme area)	6,11,439.536 m ² (or 151.09 acres)												
2.	Built-up area	8,53,320.49 m ²												
3.	Green area	34,034.0625 m ²												
12.	EC fee details	Rs 213330/- Vide R. No 4365 dated												

		03.10.2019 submitted through DD No 040438 dated 07.09.2019						
13.	Population (when fully operational)	Estimated population:21,200 Persons.						
14.	Water Requirements&source in Construction Phase	20KLD of water will be required during the construction phase which will be met by Private water tankers.						
15.	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)	
	1.	Summer	1,847	-	924	187	-	2,958
	2.	Winter	1,847	-	924	61	-	2,832
	3.	Rainy	1,847	-	924	17	-	2,788
	S.No.	Description			Source of water			
	1.	Domestic			Groundwater			
	2.	Flushing purposes			Treated wastewater			
	3.	Green area			Treated wastewater			
16.	Treatment & Disposal arrangements of wastewater in Construction Phase	Mobile STP of capacity of 10 KLD Treated water from mobile STP will be 8 KLD out of which 3 KLD will be used for dust suppression and 5 KLD will be used for the green area of 506 sqm						
17.	Disposal Arrangement of Wastewater in Operation Phase	Total wastewater generation will be 2,598 KLD which will be treated in proposed STP of 3 MLD based on MBBR technology to be installed within project premises. The details of the breakup of the utilization of wastewater is as under:-						
		Season	Flushin g (KLD)	Green area (KLD)	MC Sewer (KLD)			
		Summer	924	187	1,243			
		Winter	924	61	1,369			
		Monsoon	924	17	1,137			
18.	Rainwater recharging detail	16,467 m ³ /hr of rainwater will be collected in 132 no. of recharging pits with 172 overall bores which will be provided.						
19.	Solid waste generation and its disposal	a) 8,279 kg/day b) Solid waste will be duly segregated (at source by providing bins) into recyclable, Bio- degradable Components and non-bio-						

		degradable. c) 3,725 kg/day of Bio-degradable will be processed by 4 Mechanical composters of size 1000 kg each. d) 4,387 kg/day recyclable waste will be sold to authorized recyclers. e) Inert waste will be dumped to a designated dumping site		
20.	Hazardous Waste&E- Waste	Used oil from DG sets will be sold to registered recyclers. E-waste will be disposed of as per theE-waste(Management) Amendment Rules2018.		
21.	Energy Requirements & Saving	a)11,888 KW from PSPCL. b)2 x 62.5 KVA capacity each (silent DG sets) <u>Energy-saving measures:</u> a) LEDs will be used in place of CFL b) Solar lights will be used for lighting the streets		
21.	CER activities along with budgetary break-up and responsibility to implement			
<p>Mr. Tarinder Singh will be responsible for the implementation of the CSR activities. The estimated cost of the project is Rs. 914.20 Crores; out of which; Rs. 514.29 Crores have been incurred till 31.03.2019. Thus, Rs. 2 Crores (@ 0.50% of remaining cost i.e. Rs. 399.91) is required for C.E.R activities as per Office Memorandum vide F. No. 22-65/ 2017-IA.III dated 01.05.2018. However, Rs. 1 Crore has been spent on CSR. The following activities have been proposed to be covered under CER</p>				
S.No.	CER Activities	Fund allocated (Lakhs)	Time schedule	
			Start	Completed
1.	Maintenance of School Building, Construction of Toilets, and Installation of RO system at Govt. Senior Secondary School, MullanpurGaribdass.	85	After Grant of EC	7 Years
2.	Adoption of pond in Village Mastgarh	30	After Grant of EC	7 Years
3.	Installation of solar lights in Villages of Mastgarh and MullanpurGaribdass	15	After Grant of EC	7 Years
4.	Health Facilities like provision of ambulance, wheelchairs and health checkup camps in nearby villages	50	After Grant of EC	7 Years

5.	Promoting tree plantation & maintenance in nearby surrounding areas	20	After Grant of EC	7 Years
	Total	200		

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

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

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

3.0 Recommendations of SEAC

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

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

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

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

4.0 Deliberations during 163rd meeting of SEIAA held on 29.05.2020

The meeting was attended by the following through online video conference:

- i) Sh. S.K Talwar, Manager of the promotor company.
- ii) Dr. Sandeep Garg, EIA Coordinator, M/s ECO Laboratories & Consultants Pvt.

Ltd.

SEIAA perused the report sent by Environmental Engineer vide letter no. 1235 dated 19.02.2020 and observed that as per the said report 50 plots owned by individuals were either under construction or had been constructed. Also, 34 plots having G+2 configuration were being constructed by the promoter company. As per the report, all of this construction had taken place in the land for which the earlier layout plan was approved. In the land added by the promoter company, no construction activity was started and only the boundary wall was constructed in a few plots.

SEIAA observed that project was never accorded Environmental Clearance in the past and the construction had already been carried out at various location within the existing project site and MoEF&CC, New Delhi vide letter dated 25.03.2019 had clarified that as on date, projects with a land area less than 50 ha but built-up area more than 20,000 sqm may be appraised as per the provisions of schedule 8(a) of the EIA notification,2006 as amended from time to time. As such, why the project is not to be considered a violation case.

In reply, the project proponent submitted as under: -

- i) Initially, CLU was obtained vide memo no 1151 CTP (Pb) SP-432 (M) dated 25.03.2015 for an area of 112.04 acres and vide Memo No. 1142 CTP (PB) SP-432(M) dated 25.03.2015 for an area of 19.51 acres i.e total area 131.55 acres of land; out of which, the net planned area was 118.04 acres (or 47.77 Ha), which was less than 50 Ha for which EC is not applicable. Subsequently, Consent to Establish was obtained from PPCB for net planned area of 118.04 acres comprising of 11 nos. of Public Buildings, Plots @ 862 nos., Commercial area 2.04 acres and EWS 6.84 acres vide application No. 2971554 dated 30.11.2015. CTE extension was granted for the project vide Certificate no. CTE/Ext/SAS/2017/5075196 valid till 29.11.2017
- ii) Later on, CLU was obtained vide Memo No. 1027 CTP(PB) SP-432(M) dated 15.03.2017 for additional 60.909 acres of land. Also, CTE for expansion was obtained for a total area of 192.459 acres for development work including construction of 34 Residential plots having a built-up area of 17,301.84 sqm vide Certificate No. CTE/Exp/SAS/2018/7069127 dated 23.05.2018 valid up to 31.03.2020 and further extended up to 30.6.2020.
- iii) He submitted a letter no 2515 dated 03.06.2016 issued by SEIAA and informed that SEIAA had already accepted their request regarding the withdrawal of Environmental Clearance application for the Area Development Project "The Palms" (Proposal No. SIA/PB/NCP/3715/2015) subject to the special condition that the project shall apply afresh for obtaining environmental clearance under EIA Notification 14.09.2006 If, the plot area is though less than 50 hectares but the total built-up area of individual houses/projects combined together based on permissible ground coverage and FAR exceeds the threshold limit of 1.5 lacs sqm on the project site. A copy of the said letter submitted by the project proponent was taken on record.

- iv) Now, the overall project has a net planned area of 139.20 acres (or 56.33 Ha) which is more than 50 ha, thus, the project falls under Schedule 8(b) Category 'B1' and requires EIA study as per EIA Notification, 2006 and its amendments

SEIAA was not satisfied with the reply of the project proponent. NOC granted by the PPCB is subject to the condition that the promoter shall immediately stop construction activities in the township and restart only after obtaining environmental clearance under the provision of the EIA Notification dated 14.09.2006.

SEIAA observed that the issue of the violation of the existing project is required to be properly examined by the SEAC in light of the report sent by the PPCB, latest clarification given by the MOEF&CC on 25.03.2019 and reply submitted by the Project proponent.

After deliberations, SEIAA decided to remand the case to SEAC for examining in light of the aforesaid observation.

5.0 Deliberations during 190th meeting of SEAC held on 27.06.2020

The case was considered by SEAC in its 190th meeting held on 27.06.2020 through video conference and was attended by the following:

1. Sh. S.K Talwar, Manager of the promoter company.
2. Sh. Sandeep Garg, EIA Co-ordinator, M/s Eco Laboratories & Consultants Pvt. Ltd.

SEAC was apprised that earlier the project proponent had applied for obtaining environmental clearance for its project vide proposal no. SIA/PB/NCP/3715/2015. However, at that time the project proponent requested the SEIAA for withdrawal of the said application.

The contention of the project proponent at the time of withdrawal of the older application was that the total plot area of the project was less than 50 hectares and built-up area less than 150000 sqm. Therefore, the project does not fall in the category of 8(b) i.e. Township & Area Development Project and thus, the project did not require Environmental Clearance.

SEIAA in its 107th meeting held on 27.05.2016 observed that earlier SEIAA and SEAC in its 10th combined meeting had decided that all such projects whose plot area may be less than 50 hectares but the total built-up area of individual houses/projects though less than 20,000 sqm for a single project but the total built-up area based on permissible ground coverage and FAR exceeds the threshold limit of 1,50,000 sqm on the area development project site, then the said area development project is also covered under provisions of EIA Notification, 2006.

In light of the said fact, after deliberations, SEIAA decided to allow the project proponent to withdraw his application for obtaining environmental clearance under EIA notification, 2006 for area development project namely “The Palms” in the revenue estate of Village MullanpurGaribdas, Dhanauran&Mastgarh, Distt. SAS Nagar subject to a special condition that the project proponent shall apply afresh for obtaining environmental

clearance under EIA notification, 2006 if, the plot area is though less than 50 hectares but the total built-up area of individual houses/projects combined together based on permissible ground coverage and FAR exceeds the threshold limit of 1,50,000 sqm on the project site.

Accordingly, the said application submitted by the project proponent was treated as withdrawn vide letter no. 2515 dated 03.06.2016.

SEAC was apprised that a clarification was received from the MoEF&CC vide letter no.22-8/2019-IA-III dated 25.03.2019, wherein it was clarified that as on date, projects with a land area less than 50 ha but built-up area more than 20,000 sqm may be appraised as per the provisions of schedule 8(a) of the EIA notification,2006 as amended from time to time.

SEAC was further apprised that the Environmental Engineer, Punjab Pollution Control Board, Regional Office, Mohali vide letter no. 1235 dated 19.02.2020 had submitted the latest construction status of the project as under:

1. PPCB had granted NOC to the project proponent vide letter no. CTE/Exp/SAS/2018/7069127 dated 23.05.2018 valid up to 31.03.2020 for an area of 192.459 acres (net planned area 118.04 acre) having 862 residential plots, 11 public building, EWS flats in an area of 6.84 acre and commercial area of 2.04 acre subject to one of the conditions that the promoter shall immediately stop construction activities in the township and restart only after obtaining environmental clearance under the provision of the EIA Notification dated 14.09.2006.
2. About 50 plots owned by individuals were either under construction or had been constructed. Further, 34 plots having G+2 configurations were being constructed by the promoter company. However, all of this construction had taken place in the land for which the earlier layout plan was approved. In the land added by the promoter company, no construction activity had been started and only the boundary wall had been constructed in few plots.

SEAC observed the following observations: -

- i) As per MoEF Clarification dated 25.03.2019, projects with land area less than 50 ha but the built-up area and more than 20,000 sqm may be appraised as per the provisions of schedule 8(a) of the EIA notification,2006 as amended from time to time.
- ii) The promoter company was granted NOC by the PPCB subject to the condition that he will stop the construction and restart only after obtaining environmental clearance under the provision of the EIA Notification dated 14.09.2006.
- iii) As per NOC granted by the Board, the promoter company was required to obtain Environmental Clearance for the project. Further, it was also clear that the project proponent was carrying out construction activities at the time of the grant of NOC by the PPCB.

- iv) The project proponent had carried out a significant amount of construction at the site without obtaining prior Environmental Clearance.

In view of the above facts, SEAC observed that the case falls in the category of a violation case. However, before arriving at the conclusion, SEAC felt that the project proponent be asked to submit the following information within 15 days: -

- i) Details of the application submitted for obtaining the Environmental Clearance having proposal no. SIA/PB/NCP/3715/2015 mentioning total land area & built-up area of all the proposed units considering the FAR allowed to the project.
- ii) Details of the application submitted for the Environmental Clearance having proposal no. SIA/PB/NCP/34917/2019 mentioning the total land area & built-up area of all the proposed units considering the FAR allowed to the project.
- iii) Submit the comparison between the aforesaid projects.
- iv) Explain why the project proponent had not applied for obtaining Environmental Clearance after withdrawal of proposal no. SIA/PB/NCP/3715/2015.
- v) Clarify that how the existing project as well as proposed expansion project is not in violation of the EIA Notification 14.09.2006 considering the FAR allowed to the project, in view of the clarification received from MoEF vide their letter dated 25.03.2019 stating that projects with a land area less than 50 ha but built-up area more than 20,000 sqm may be appraised as per the provisions of schedule 8(a) of the EIA notification, 2006 as amended from time to time.

6.0 Recommendation of SEAC

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

Accordingly, the decision of SEAC was conveyed to the project proponent through online ADS (additional detail sought) facility available on the web portal. The project proponent submitted the reply to the ADS and the same was annexed as Annexure-A of the agenda.

7.0 Deliberations during 192nd meeting of SEAC held on 01.09.2020

The case was considered by SEAC in its 192nd meeting held on 01.09.2020. The meeting was attended by the following on behalf of the project proponent:

- i) Sh. Manoj Kumar, Authorized Signatory, through Video Conference.
- ii) Dr. Sandeep Garg, EIA Coordinator, M/s Eco Laboratories & Consultants Pvt. Ltd., Mohali, Environmental Consultant of the Project Proponent.

SEAC went through the reply of the project proponent submitted to the observations raised earlier by it. SEAC observed as under:-

- i) The project proponent has not submitted the built-up area of the project for the earlier applied EC which was allowed to be withdrawn by SEIAA on 03.06.2016.

- ii) The project proponent submitted that the Environmental Clearance was not required as the net planned area was less than 50 ha. However, the project proponent did not submit the revised application for the Environmental Clearance on the basis of total built-up area, if, the built-up area of the individual houses/projects combined together based on permissible ground coverage and FAR exceeds the threshold limit of 1,50,000 sqm, as per the special condition of the withdrawal letter issued by SEIAA on 03.06.2016.
- iii) Also, from the clarification of MoEF&CC dated 25.03.2019, the projects with land area less than 50 ha but the built-up area more than 20,000 sqm may be appraised as per the provisions of schedule 8(a) of the EIA notification, 2006 as amended from the time to time.

SEAC felt that at this stage, it was important to first ascertain as to whether the project proponent was in violation of the EIA Notification 14.09.2006 at the time of grant of NOC from PPCB after considering the MoEF Clarification dated 25.03.2019, which requires detailed examination regarding FAR based calculation to be considered or not in the 8(b) projects as a policy matter.

After detailed deliberations, SEAC decided to defer the case as it requires in-depth study and be placed in the next meeting of SEAC.

8.0 Deliberations during 193rd meeting of SEAC held on 26.02.2020

The case was considered by SEAC in its 193rd meeting held on 26.02.2020. The meeting was attended by the following on behalf of the project proponent:

- i) Sh.Surinder Talwar, Manager, on behalf of the promoter company.
- ii) Sh. Sandeep Garg, EIA Coordinator from M/s Eco Laboratories and Consultants Pvt. Ltd.

Environmental consultant of the promoter company submitted a representation to the Secretary, SEAC vide letter dated 25.09.2020. SEAC examine the said representation and place it on the record. The matter was deliberated in length and SEAC observed as under:

- i) The SEIAA in the 107th meeting held on 27.05.2016 allowed the withdrawal of the old proposal of the project proponent with a condition that “the project shall apply afresh for obtaining environmental clearance under EIA Notification 14.09.2006 If, the plot area is though less than 50 hectares but the total built-up area of individual houses/projects combined together based on permissible ground coverage and FAR exceeds the threshold limit of 1.5 lacs sqm on the project site.”

The said conditions was imposed as per the decision of 10th combined meeting of SEIAA and SEAC held on 13.05.2016

The decision of SEIAA was conveyed vide letter No. 2515 dated 03.06.2016 to the project proponent. However, the project proponent did not submit the application of environmental clearance.

- ii) SEIAA vide letter no. SEIAA/2019/248 dated 15.02.2017 sought clarification from the Northern Regional Office of MoEF&CC Chandigarh regarding Item 8 projects

(Building or Construction projects or Area Development Projects and Townships) under Environment Impact Assessment Notification, 2006- to which Regional Office forward a copy of the letter no. 22-8/2019-IA-III dated 25.03.2019 of the Ministry to SEIAA, Punjab, wherein MoEF&CC, New Delhi has clarified that as on date, projects with land area less than 50 ha but built-up area more than 20,000 sqm may be appraised as per the provisions of schedule 8 (a) of the EIA notification, 2006 as amended from time to time.

- iii) While granting NOC by the PPCB to the project proponent vide letter no. CTE/Exp/SAS/2018/7069127 dated 23.05.2018 for an area of 192.459 acres (net planned area 118.04 acre) having 862 residential plots, 11 public building, EWS flats in an area of 6.84 acre and commercial area of 2.04 acre, PPCB had imposed condition that the promoter shall immediately stop construction activities in the township and restart only after obtaining environmental clearance under the provision of the EIA Notification dated 14.09.2006.
- iv) The project proponent submitted application for obtaining Environmental Clearance on 17.04.2019 for revised proposal (SIA/PB/NCP/34917/2019).
- v) Environmental Engineer, Punjab Pollution Control Board, Regional Office, Mohali vide letter no. 1235 dated 19.02.2020 has reported the latest construction status of the project as under:-

"About 50 plots owned by individuals were either under construction or had been constructed. Further, 34 plots having G+2 configurations were being constructed by the promoter company. However, all of this construction had taken place in the land for which the earlier layout plan was approved. In the land added by the promoter company, no construction activity had been started and only the boundary wall had been constructed in few plots".
- vi) The SEAC in its 190th meeting held on 27.06.2020 asked the project proponent to submit the built-up area of all the proposed units considering the FAR allowed to the project of its old proposal (SIA/PB/NCP/3715/2015). However, intentionally the project proponent has not submitted the same.

9.0) Recommendation

In view of the above observations and after due deliberations, the SEAC is of the opinion that the project proponent was in violation of EC Guidelines at the time of withdrawal of its application and further during the grant of NOC by the PPCB on 23.05.2018, as the built-up area of earlier proposal, on the basis of FAR proposed for the new proposal, works out to be more than 1,50,000 sqm. As such, further action may be taken by SEIAA in this case accordingly.

10.0 Deliberations during the 172nd meeting of SEIAA held on 12.10.2020.

The case was placed before SEIAA in its 172nd meeting held on 12.10.2020 and the same was attended by the following through video conference: -

- (i) Sh. Taraninder Singh, Managing Director of the promoter company.

(ii) Dr. Sandeep Garg and Ms. Simran Kaur, M/s Eco Laboratory, Mohali, Environmental Consultant of the promoter company.

SEIAA perused the recommendations of the SEAC and observed that the Project Proponent already violated the EIA notification,2006. Therefore, the provisions of MOEF Notification dated 14.03.2017, Notification dated 08.03.2018 and OM dated 09.09.2019 are attracted in this case.

During the meeting, the project proponent & Environmental Consultant of the promoter company contended that the case is not a violation case as the condition imposed by then SEIAA at the time of withdrawal of EC application for the old proposal, does not align with EIA Notification,14.09.2006. SEIAA was not satisfied with the statement.

After detailed deliberations, SEIAA decided to give a final opportunity to show cause in writing, within 15 days from the issuance of the show cause notice as to why the application for TOR submitted by the project proponent be not rejected and/or action be not initiated for violations of provisions of EIA Notification dated 14.09.2006, failing which further necessary action will be taken as per Law without giving any further opportunity. Meeting ended with a vote of thanks to the Chair.
