

Proceedings of 194th meeting of State Expert Appraisal Committee (SEAC) is on 23.10.2020 at 10:30 am in the Conference Hall of MGSIPA at 1st Floor, MGSIPA Complex, Sector-26, Chandigarh.

The following members were present: -

Sr. No.	Name of SEAC Member	Designation in SEAC
1.	Er. Yogesh Gupta	Chairman
2.	Er. Pardeep Garg	Secretary
3.	Er. Nirmal Singh Kahlon	Member (Through VC)
4.	Sh. A.K Bhatia	Member
5.	Dr. Pawan Krishan	Member
6.	Sh. Deepak Sethi	Member
7.	Sh. Parminder Singh Bhogal	Member
8.	Sh. Sandeep Pal Singh	Member
9.	Dr. Harpreet Kaur	Member
10.	Dr. Adarsh Pal Vig	Member (Through VC)

Item No. 01: Confirmation of the proceedings of 193rd meetings of State Level Expert Appraisal Committee held on 26.09.2020.

SEAC was apprised that draft proceedings of the 193rd meeting of State Level Expert Appraisal Committee meeting held on 26.09.2020 were circulated to all the members vide email dated 05.10.2020 with a request to convey suggestions/ amendments if any within two days. The comments of Dr. Pawan Krishan and Sh. N.S. Kahlon, Member SEAC were received through email on 08.10.2020 duly incorporated in the minutes. After taking approval from the competent authority, the proceedings have been uploaded on the web portal of the SEAC. As such, SEAC confirmed the said minutes.

Item No. 02: Action taken on the proceedings of the 193rd meeting of the State Level Expert Appraisal Committee held on 26.09.2020.

SEAC was apprised that action taken on the proceedings of 193rd meeting of the State Level Expert Appraisal Committee held on 26.09.2020 has been completed. SEAC noted the same.

Item No194.01: Application for obtaining Terms of Reference under EIA notification dated 14.09.2006 for mining of minor minerals On River Bed of river Sutlej in the village Wara Suleman, Tehsil Zira District- Ferozepur, Punjab submitted by Prime Vision Industries Private Limited. (Proposal No. SIA/PB/MIN/57356/2020)

M/s Prime Vision Industries Pvt Ltd has applied for obtaining Terms of Reference under EIA notification dated 14.09.2006 for mining of minor minerals (Sand) **on Agricultural Land in the village Wara Suleman, Tehsil Zira District- Ferozepur, Punjab** on 09.03.2020. The project is covered under category 1 (a) of the Schedule appended to the said notification.

The project proponent submitted the application along with the documents as per the checklist. Further, the processing fee was deposited as per the Notification dated 27.06.2019 issued by the Govt. of Punjab.

(A) General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	M/s Prime Vision Industries Pvt Ltd 312, Vishal Chamber P-1, Sector-18, Noida, Uttar Pradesh. 9646210786 Primevision.pb.ec@gmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	P and M solution 9910037943 Manasvyas23@gmail.com

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i). Sh. Harkesh Singh, Authorized Signatory, Prime Vision Industries, Pvt. Ltd.
- (ii). Sh. Subash kumar, EIA Coordinator, P & M Solutions.

Environmental Consultant of the promoter company presented the salient features of the proposal as under:-

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/MIN/57347/2020
2.	Project Name & Location	Wara Suleman River Bed Sand Mining Project At Hadbast No-229, Village-Wara Suleman, Tehsil-Zira, District-Firozpur, Punjab

3	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006.		SI. No. 1(a)
4	Details of Mining Lease		
i)	Mineral (s) to be mined		Sand
ii)	Capacity of Mine		The Proposed production Capacity 291742.344 TPA.
iii)	Mining Lease Area		Total area is 8.42 Ha
iv)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt.		Reference No:1709-10 Date of Issue:09.07.2019 Validity of LOI: Mining Lease Area: 8.42 Ha. Mining Quantity: 291742.344 TPA.
5	HadBast No.		229
6	Land Khasra No. & their consent details		
	Sr No	Type	Khasra No
	1	Govt Land	
	2	Private Land	[11//19(8-0),21/1(2-0),22/2(2-0),23/2(6-0),25/1(6-0),25/1(6-0),17(8-0),18min (7-0),23/1/ (23/1(1-15),24(1-16),13(8-0),14(8-0),15(8-0)16(8-0),25/2(2-0),3(8-0),4(8-0),5(8-0),6(8-0),7(8-0),8(8-0),9(8-0),18/2(1-0] [10//11(8-0),12(8-0),13Min (6-16),21/1(2-0),20(8-0)]
7.	Latitude & Longitude		
	Pillar No.	Latitude:	Longitude :
	A	31°6'17.70"N	75°7'52.00"E
	B	31°6'17.70"N	75°7'59.60"E
	C	31°6'13.70"N	75°7'59.50"E
	D	31°6'13.70"N	75°8'6.70"E
	E	31°6'11.70"N	75°8'6.70"E
	F	31°6'11.70"N	75°8'2.00"E
	G	31°6'17.70"N	75°8'2.00"E
	H	31°6'9.80"N	75°8'0.10"E
	I	31°6'9.80"N	75°8'0.10"E

	J	31°6'7.80"N	75°7'55.98"E
	K	31°6'7.78"N	75°7'55.93"E
	L	31°6'9.25"N	75°7'54.41"E
	M	31°6'7.79"N	75°7'54.42"E
	N	31°6'7.79"N	75°7'49.36"E
	O	31°6'8.90"N	75°7'49.30"E
	P	31°6'8.90"N	75°7'51.90"E
	Q	31°6'9.80"N	75°7'51.90"E
	R	31°6'9.80"N	75°7'49.30"E
	S	31°6'11.80"N	75°7'49.30"E
	T	31°6'11.80"N	75°7'51.90"E
	U	31°6'13.80"N	75°7'49.40"E
	V	31°6'13.80"N	75°7'49.40"E
	W	31°6'15.80"N	75°7'51.90"E
	X	31°6'15.70"N	75°7'47.51"E
	Y	31°6'8.96"N	75°7'46.87"E
	Z	31°6'17.70"N	75°7'46.87"E
	1	31°6'7.73"N	75°7'46.91"E
	2	31°6'7.73"N	75°7'47.55"E
8	Whether the project attracts the General Condition.	No	
9.	Does the project involves diversion of forest land.If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof	No	
10	Does the project fall within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary? If yes, Status of NOC.	No	

	If No, If No, submit documentary proof																																								
11.	Land requirement for the project	<p>Prior to the project proposal</p> <table border="1"> <thead> <tr> <th>Sr No.</th> <th>Ownership pattern</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>i)</td> <td>Forest Land</td> <td>Nil</td> </tr> <tr> <td>ii)</td> <td>Private land</td> <td>8.42</td> </tr> <tr> <td>iii)</td> <td>Government land</td> <td>Nil</td> </tr> <tr> <td>iv)</td> <td>Revenue land</td> <td>Nil</td> </tr> <tr> <td>v)</td> <td>Other land</td> <td>Nil</td> </tr> <tr> <td>vi)</td> <td>Total land</td> <td>8.42</td> </tr> </tbody> </table> <p>Present Land use Break Up</p> <table border="1"> <thead> <tr> <th>Sr No.</th> <th>Land use</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>i)</td> <td>Agriculture Area</td> <td>8.42</td> </tr> <tr> <td>ii)</td> <td>Waste/Barren Area</td> <td>Nil</td> </tr> <tr> <td>iii)</td> <td>Settlement</td> <td>Nil</td> </tr> <tr> <td>iv)</td> <td>Surface water Bodies</td> <td>Nil</td> </tr> <tr> <td>v)</td> <td>Other(Specify)</td> <td>Nil</td> </tr> </tbody> </table>	Sr No.	Ownership pattern	Area in Ha	i)	Forest Land	Nil	ii)	Private land	8.42	iii)	Government land	Nil	iv)	Revenue land	Nil	v)	Other land	Nil	vi)	Total land	8.42	Sr No.	Land use	Area in Ha	i)	Agriculture Area	8.42	ii)	Waste/Barren Area	Nil	iii)	Settlement	Nil	iv)	Surface water Bodies	Nil	v)	Other(Specify)	Nil
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12.	Cost of the project	Rs. 6236680.46 Lakhs																																							
13.	Environmental Clearance. Fee details	Rs 4210/- Vide NEFT No 614341159 dated 07.10.20																																							
14.	Details of Final District Survey Report	Approved by: - District Commissioner. Ferozepur Reference No:728 Date of Issue: 08/06/2020																																							
15.	Details of visit report of Sub Divisional Level Committee as per SSMG, 2016.	Submitted																																							
16.	Details of Mining Plan	Approved by :- State Geologist Punjab Approval Letter No: Glg/Pb/M.P./2020/Wara Suleman/540 Date of Approval: 14.08.2020 Approved Mining Lease Area: 8.42 Ha Approved Mining Quantity: 53653.52 Tonnes per annum. Depth of Mining (m):3.0 Metres.																																							
17.	Demarcation report of mining site	Date of demarcation:17.12.2019																																							
18.	Workers (when fully operational)	25 Persons.																																							
19.	Water Requirements & source	Domestic: 0.50 KLD (@ 20 lpcd) Plantation: 0.20 KLD																																							

		Dust Suppression: 3.80 KLD Total: 4.50 KLD Ground water/Others: Nil
20.	Waste water generation, Treatment & its Disposal	i) Quantity of Waste water : Nil KLD (80% of water requirement) ii) Treatment Method: Septic Tank a) Mode of Disposal :Plantation purpose.
21	Solid waste generation and its disposal	Solid waste will be disposed as per Solid Waste Management Rules, 2016.
22.	Green Belt Development Plan including no. of trees to be planted & its species.	Tree cutting (if any) : Nil The comprehensive plantation plan will be submitted at the time EC.
23.	Environment Management Plan along with Budgetary breakup and responsibility to implement	Prime Vision Industries Pvt Ltd. will be responsible for the implementation of EMP till the mining activities closed as per the mining plan. The comprehensive plan will be submitted at the time EC.

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

2.0 Recommendations

After detailed deliberations, SEAC decided to forward the application of the project proponent to SEIAA with recommendation to issue Terms of Reference for preparing EIA report for mining of minor minerals (Sand) on River Bed of river Sutlej by "M/s Prime Vision Industries Private Limited" in the village Wara Suleman, Tehsil Zira District-Ferozepur, Punjab, 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) Submit the annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production then mining activity/production level shall be decreased/ stopped accordingly till the replenishment study is completed.
- 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.
- 7) 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.
- 8) 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 provided.
 - 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 commencement 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 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.
2. 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.
3. 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.

Item No 194.02: Application for obtaining Terms of Reference under EIA notification dated 14.09.2006 for mining of minor minerals On River Bed of River Satluj in the village Malhe wala, Tehsil Zira District Ferozepur, Punjab submitted by M/s Prime Vision Industries Private Limited. (Proposal No. SIA/PB/MIN/57377/2020)

M/s Prime Vision Industries Private Limited has applied for obtaining Terms of Reference under EIA notification dated 14.09.2006 for mining of minor minerals (Sand) from River bed of River Satluj in the revenue estate of **village Malhe wala, Tehsil Zira, District Ferozepur, Punjab** on 03.07.2020. The project is covered under category 1 (a) of the Schedule appended to the said notification.

The project proponent submitted the application along with the documents as per the checklist. Further, the processing fee was deposited as per the Notification dated 27.06.2019 issued by the Govt. of Punjab.

(A) General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	M/s Prime Vision Industries Pvt Ltd 312, Vishal Chamber P-1, Sector-18, Noida, Uttar Pradesh. 9646210786 Primevision.pb.ec@gmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	P and M solution 9910037943 Manasvyas23@gmail.com

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i). Sh. Harkesh Singh, Authorized Signatory, Prime Vision Industries, Pvt. Ltd.
- (ii). Sh. Subash kumar, EIA Coordinator, P & M Solutions.

Environmental Consultant of the promoter company presented the salient features of the proposal as under:-

Sr. No.	Item	Details
1.	Online Proposal No.	SIA/PB/MIN/ 57377/2020
2.	Project Name & Location	Malhe wala Sand Mining Project Hadbast No-222 Village Malhe Wala, Tehsil Zira ,District Ferozepur
3	Project/activity covered under item of scheduled to the EIA	SI. No. 1(a) Mining of Minerals

	Notification,14.09.2006		
4	Details of Mining Lease		
	i)	Mineral (s) to be mined	Sand
	ii)	Capacity of Mine	The Proposed production Capacity 155012.95 TPA.
	iii)	Mining Lease Area	Total area is 5.07 Ha
	iv)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt.	Reference No:1709-10 Date of Issue:09.07.2019 Validity of LOI:Na Mining Lease Area: 5.07 Ha. Mining Quantity: 155012.95 TPA
5	HadBast No.		222
6	Land Khasra No. & their consent details		
	Sr. No.	Type	Khasra No
	1	Govt Land	
	2	Private Land	[4//1(8-0),2(8-0),8(8-0),9(8-0),10(8-0),11(8-0),12(8-0),13(8-0)18Min(2-1),19/2Min(2-10),22(6-0),23][5//5min south(4-0)5min south(5-0)][10//3min north(4-0),3(8-0),2min south(4-0)]
7.	Latitude & Longitude		
	Sr.No.	Latitude	Longitude
	1	31°7'16.13"N	75°7'21.97"E
	2	31°7'16.20"N	75°7'26.60"E
	3	31°7'14.20"N	75°7'26.60"E
	4	31°7'14.25"N	74°7'28.92"E
	5	31°7'10.30"N	75°7'29.16"E
	6	31°7'8.19"N	74°7'27.25"E
	7	31°7'8.28"N	75°7'27.38"E
	8	31°7'6.45"N	75°7'29.64"E
	9	31°7'6.40"N	75°7'29.73"E
	10	31°7'6.40"N	75°7'27.90"E
	11	31°7'6.40"N	75°7'27.90"E
	12	31°7'6.30"N	75°7'25.30"E
	13	31°7'6.40"N	75°7'25.30"E
	14	31°7'6.40"N	75°7'24.10"E
	15	31°7'8.40"N	75°7'24.10"E

	16	31°7'8.42"N	75°7'24.92"E
	17	31°7'10.25"N	75°7'24.82"E
	18	31°7'10.19"N	75°7'22.29"E
	19	31°7'11.33"N	75°7'24.24"E
	20	31°7'11.33"N	75°7'20.03"E
	21	31°7'12.25"N	75°7'19.99"E
	22	31°7'12.28"N	75°7'22.20"E
	23	31°7'13.16"N	75°7'22.18"E
	24	31°7'13.14"N	75°7'19.97"E
	25	31°7'14.11"N	75°7'19.94"E
	26	31°7'14.13"N	75°7'22.09"E
8	Whether the project attracts the General Condition.		No
9.	Does the project involves diversion of forest land.If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof		No
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
11.	Land requirement for the project		
	Prior to the project proposal		
	Sr No.	Ownership pattern	Area in Ha
	i)	Forest Land	Nil
	ii)	Private land	5.07
	iii)	Government land	Nil
	iv)	Revenue land	Nil
	v)	Other land	Nil
	vi)	Total land	5.07
	Present Land use Break Up		
	Sr No.	Land use	Area in Ha
	i)	Agriculture Area	5.07
	ii)	Waste/Barren Area	Nil
	iii)	Settlement	Nil

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		iv)	Surface water Bodies	Nil
		v)	Other(Specify)	----
12.	Cost of the project	Rs. 2,10,04,917 /-		
13.	Environmental Clearance. Fee details	Rs 2,535/- Vide NEFT No 614339737 dated 07.10.2020		
14.	Details of Final District Survey Report	Approved by: - District Commissioner, Ferozepur Reference No: 728 Date of Issue: 08/06/2020		
15.	Details of visit report of Sub Divisional Level Committee as per the SSGM, 2016	Submitted		
16.	Details of Mining Plan	Approved by :- State Geologists Approval Letter No: 546 Date of Approval: 14.08.2020 Approved Mining Lease Area: 5.07 Ha Approved Mining Quantity: 155012.95 TPA Depth of Mining (m): 3 Meters		
17.	Demarcation report of mining site	Submitted		
18.	Workers (when fully operational)	25 Persons.		
19.	Water Requirements & source	Domestic: 0.50 KLD (@ 20 lpcd) Plantation: 0.25 KLD Dust Suppression: 6.15 KLD Total: 6.90 KLD Ground water/Others: Nil		
20.	Waste water generation, Treatment & its Disposal	i) Quantity of Waste water: Nil (80% of water requirement) ii) Treatment Method: Septic Tank Mode of Disposal: Plantation purpose.: 0.25 KLD b) Any other purpose: Dust Suppression:6.15 KLD		
21.	Solid waste generation and its disposal	Solid waste will be disposed as per Solid Waste Management Rules, 2016.		
22.	Green Belt Development Plan including no. of trees to be planted & its species.	Tree cutting (if any) : Nil The comprehensive plantation plan will be submitted at the time EC.		
23.	Environment Management Plan along with Budgetary breakup and responsibility to implement	Prime Vision Industries Private Limited will be responsible for the implementation of EMP till the mining activities closed as per the mining plan.		

		The comprehensive plan will be submitted at the time EC.
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SEAC was satisfied with the presentation. SEAC took a copy of the presentation on record.

2.0 Recommendations

After detailed deliberations, SEAC decided to forward the application of the project proponent to SEIAA with recommendation to issue Terms of Reference for preparing EIA report for mining of minor minerals (Sand) on River Bed of river Sutlej by "M/s Prime Vision Industries Private Limited" Village Malhe Wala, Tehsil Zira, District Ferozepur, 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) Submit the annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production then mining activity/production level shall be decreased/ stopped accordingly till the replenishment study is completed.
 - 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.
- 7) 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.
 - 8) 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/lease period.
 - 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 provided.
- 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:-
- a. The EIA document shall be printed on both sides, as far as possible.
 - b. All documents to be properly referenced with index and continuous page numbering.
 - c. The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
 - d. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - e. 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.
 - f. Where the documents provided are in a language other than English, an English translation should be provided.
 - g. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - h. 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.
 - i. 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.
 - j. 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.
 - k. 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.
 - l. 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 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.

2. 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.
3. 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.

Item No 194.03: Application for obtaining Terms of Reference under EIA notification dated 14.09.2006 for mining of minor minerals On Agricultural Land in the village Changali Qadim, Tehsil & District Ferozepur, Punjab submitted by M/s Prime Vision Industries Private Limited (Proposal No. SIA/PB/MIN/57379/2020)

M/s Prime Vision Industries Private Limited has applied for obtaining Terms Of Reference under EIA notification dated 14.09.2006 for mining of minor minerals (Sand) from Agricultural land in the revenue estate of **village Changali Qadim, Tehsil & District Ferozepur, Punjab** on 03.07.2020. The project is covered under category 1 (a) of the Schedule appended to the said notification.

The project proponent submitted the application along with the documents as per the checklist. Further, the processing fee was deposited as per the Notification dated 27.06.2019 issued by the Govt. of Punjab.

(A) General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	M/s Prime Vision Industries Pvt Ltd 312, Vishal Chamber P-1, Sector-18, Noida, Uttar Pradesh. 9646210786 Primevision.pb.ec@gmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	P and M solution 9910037943 Manasvyas23@gmail.com

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i). Sh. Harkesh Singh, Authorized Signatory, Prime Vision Industries, Pvt. Ltd.
- (ii). Sh. Subash kumar, EIA Coordinator, P & M Solutions.

Environmental Consultant of the promoter company presented the salient features of the proposal as under:-

S.No	Item	Details
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1.	Online Proposal No.	SIA/PB/MIN/ 57377/2020	
2.	Project Name & Location	Changali Qadim Sand Mining Project Hadbast No-136 Village Changali Qadim, Tehsil & District Ferozpur	
3	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	SI. No. 1(a) Mining of Minerals	
4	Details of Mining Lease		
i)	Mineral (s) to be mined	Sand	
ii)	Capacity of Mine	The Proposed production Capacity 53449.78 TPA.	
iii)	Mining Lease Area	Total area is 6.97Ha	
iv)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt.	Reference No:1709-10 Date of Issue:09.07.2019 Validity of LOI:Na	
5	HadBast No.	136	
6	Land Khasra No. & their consent details		
	Sr No	Type	Khasra No
	1	Govt Land	
	2	Private Land	18//6/2(4-0), 15(8-0), 16/2/1(6-0) 24//16/1(60)25/2(6-0) 25//21(8-0), 20(8-0),19min(4-0), 9(8-0), 8(8-0),37//4/2/1(1-0),7/1(6-0),23(7-4)9//11(4-7),12/1(2-0),20min(4-0), 19/2(2-0),21min(4-0),20min(2-0),21min(2-0),21min(2-0),20min(2-0)8//25min(4-0),25min(2-0),25min(2-0),18/2/1(3-16)24//14(8-0),15/1(5-10),17(8-0)
7.	Latitude & Longitude		
	S.No.	Latitude	Longitude
	1	30°59'18.73"N	74°46'21.03"E
	2	30°59'18.28"N	74°46'18.12"E
	3	30°59'15.47"N	74°46'18.16"E
	4	30°59'15.40"N	74°46'15.72"E
	5	30°59'13.53"N	74°46'15.67"E
	6	30°59'13.49"N	74°46'19.82"E
	7	30°59'15.17"N	74°46'19.83"E

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8	30°59'15.20"N	74°46'20.50"E
9	30°59'17.23"N	74°46'20.49"E
10	30°59'17.25"N	74°46'20.73"E
11	30°59'14.38"N	74°46'13.05"E
12	30°59'14.43"N	74°46'10.38"E
13	30°59'13.46"N	74°46'10.39"E
14	30°59'13.43"N	74°46'13.09"E
15	30°59'10.49"N	74°46'15.68"E
16	30°59'10.49"N	74°46'18.33"E
17	30°59'5.64"N	74°46'18.36"E
18	30°59'5.61"N	74°46'16.55"E
19	30°59'7.41"N	74°46'16.55"E
20	30°59'7.46"N	74°46'15.70"E
21	30°59'1.70"N	74°46'13.12"E
22	30°59'1.64"N	74°46'8.02"E
23	30°58'59.61"N	74°46'7.90"E
24	30°58'59.65"N	74°46'13.09"E
25	30°58'59.53"N	74°46'0.43"E
26	30°58'59.56"N	74°46'3.14"E
27	30°58'59.04"N	74°46'3.27"E
28	30°58'59.01"N	74°46'5.45"E
29	30°58'57.65"N	74°46'5.54"E
30	30°58'57.62"N	74°46'8.12"E
31	30°58'56.86"N	74°46'8.11"E
32	30°58'56.86"N	74°46'10.39"E
33	30°58'56.79"N	74°46'10.40"E
34	30°58'55.88"N	74°46'8.06"E
35	30°58'53.81"N	74°46'8.05"E
36	30°58'53.74"N	74°46'5.66"E
37	30°58'57.62"N	74°46'5.60"E
38	30°58'57.66"N	74°46'4.90"E
39	30°58'53.76"N	74°46'4.95"E
40	30°58'53.74"N	74°46'3.11"E

	41	30°58'53.74"N	74°46'2.71"E
	42	30°58'51.84"N	74°46'2.76"E
	43	30°58'51.80"N	74°46'1.16"E
	44	30°58'49.70"N	74°46'1.15"E
	45	30°58'51.80"N	74°46'1.16"E
	46	30°58'49.70"N	74°46'1.15"E
	47	30°58'49.70"N	74°46'3.11"E
	48	30°58'45.54"N	74°46'2.99"E
	49	30°58'45.67"N	74°46'5.59"E
	50	30°58'43.80"N	74°46'5.59"E
	51	30°58'43.69"N	74°46'3.05"E
8	Whether the project attracts the General Condition.		No
9.	Does the project involves diversion of forest land.If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof		No
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
11.	Land requirement for the project		Prior to the project proposal
	Sr No.	Ownership pattern	Area in Ha
	i)	Forest Land	Nil
	ii)	Private land	6.97
	iii)	Government land	Nil
	iv)	Revenue land	Nil
	v)	Other land	Nil
	vi)	Total land	6.97
	Present Land use Break Up		
	Sr No.	Land use	Area in Ha
	i)	Agriculture Area	6.97
	ii)	Waste/Barren Area	Nil

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		iii)	Settlement	Nil
		iv)	Surface water Bodies	Nil
		v)	Other(Specify)	----
12.	Cost of the project	Rs. 1,38,97,477/-		
13.	Environmental Clearance. Fee details	Rs 3,485/- Vide NEFT No 603730867 dated 12.05.2020		
14.	Details of Final District Survey Report	Approved by:- District Commissioner, Ferozepur Reference No: 728 Date of Issue: 08/06/2020		
15	Details of visit report of Sub Divisional Level Committee	Date of visit: -07.10.2020 Recommendation: suitable for mining		
16	Details of Mining Plan	Approved by :- State Geologist Approval Letter No: Glg/Pb/M.P./2020/Changali Qadim/446 Date of Approval: 01.07.2020 Approved Mining Lease Area: 6.97Ha Approved Mining Quantity: 53449.78 TPA Depth of Mining (m): 3 Meters		
17	Demarcation report of mining site	Date of demarcation:20.01.2020		
18.	Workers (when fully operational)	20 Persons.		
19.	Water Requirements & source	Domestic: 0.20 KLD (@ 20 lpcd) Plantation: 2.48 KLD Dust Suppression: 1.44 KLD Total: 4.12 KLD Ground water/Others: Nil		
20.	Waste water generation, Treatment & its Disposal	i) Quantity of Waste water :Nil (80% of water requirement) ii) Treatment Method: Septic Tank Mode of Disposal: Plantation purpose.		
21	Solid waste generation and its disposal	Solid waste will be disposed as per Solid Waste Management Rules, 2016.		
22.	Green Belt Development Plan including no. of trees to be planted & its species.	Tree cutting (if any) : Nil The comprehensive plantation plan will be submitted at the time EC.		
23.	Environment Management Plan along with Budgetary breakup and responsibility to implement	Prime Vision Industries Private Limited will be responsible for the implementation of EMP till the mining activities closed as per the		

		mining plan. The comprehensive plan will be submitted at the time EC.
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SEAC was satisfied with the presentation. SEAC took a copy of the presentation on record.

2.0 Recommendations

After detailed deliberations, SEAC decided to forward the application of the project proponent to SEIAA with recommendation to issue Terms of Reference for preparing EIA report for mining of minor minerals (Sand) on Agricultural Land submitted by “M/s Prime Vision Industries Private Limited” **village Changali Qadim, Tehsil & District Ferozpur, Punjab**, as under:

Standard Terms of Reference (TOR) for Mining Project

- 1) Submit dully 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 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 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, 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) Proper justification of use of semi-mechanized/mechanized method, if any, over the manual method of mining considering the location, thickness of sand deposition, agriculture land/river bed, with detailed calculations and benefits to be achieved for the Environment. Because as per Standard EC conditions provided in the Guidelines, 2016, manual method of mining shall be preferred over any other method.
- 5) The Project proponent shall provide the exact coordinates of all the corners of the site and the shortest distance of 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.
- 6) 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.
 - 7) 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.
 - 8) Submit complete transportation plan giving detailed procedure (details of route plan to be followed by trucks transporting minor minerals with traffic volume data etc.)
 - 9) Submit a copy of ownership of land such as copy of latest jamabandi and consent of all the owner of land.
 - 10) A copy of Mining Plan dully approved by the State Geologist
 - 11) Submit 1.0 Km radius map of the area from periphery of project site clearly indicating the physical features.
 - 12) Submit an undertaking to the effect that there is no other mine within 500 m. radius from the periphery of this site.
 - 13) Submit photographs of the mining site taken from all the four sides mentioning the coordinates of the project.
 - 14) Mining lay out 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.
 - 15) Submit Corporate Environment Responsibility (CER) Plan as per the OM dated 01.05.2018
 - 16) 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.
 - 17) 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.

- 18) 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.
- 19) 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.
- 20) 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.
- 21) 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).
- 22) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating 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.
- 23) 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.
- 24) 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 spelt out in the EIA Report with 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 stakeholders at large, may also be detailed in the proposed safeguard measures in each case should also be provided.
- 25) 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.
- 26) 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 / lease period.

- 27) 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.
- 28) 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.
- 29) 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.
- 30) 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.
- 31) 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.
- 32) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 33) 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.
- 34) 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.
- 35) 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.

- 36) 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.
- 37) 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.
- 38) 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 downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
- 39) 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.
- 40) 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.
- 41) Necessary clearance from the Competent Authority for drawl of requisite quantity

of water for the Project should be provided.

- 42) 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.
- 43) 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.
- 44) 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.
- 45) 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 provided.
- 46) 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.
- 47) 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 commencement 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.
- 48) 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.
- 49) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 50) 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.

- 51) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt 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.
- 52) 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.
- 53) 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.
- 54) 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.
- 55) 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.
- 56) 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.
- 57) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 58) A Disaster Management Plan shall be prepared and included in the EIA/EMP Report.
- 59) 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.
- 60) 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 presentation in PPT format along with application.
- 61) The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

Item No194.04: Application for obtaining Terms of Reference under EIA notification dated 14.09.2006 for mining of minor minerals On Agricultural Land in the village Hamad Wala Uttar, Tehsil Zira District- Ferozepur, Punjab submitted by Prime Vision Industries Private Limited. (Proposal No. SIA/PB/MIN/57360/2020)

M/s Prime Vision Industries Pvt Ltd has applied for obtaining Terms of Reference under EIA notification dated 14.09.2006 for mining of minor minerals (Sand) **On Agricultural Land in the village Hamad Wala Uttar, Tehsil Zira District- Ferozepur, Punjab** on 09.03.2020. The project is covered under category 1 (a) of the Schedule appended to the said notification.

The project proponent submitted the application along with the documents as per the checklist. Further, the processing fee was deposited as per the Notification dated 27.06.2019 issued by the Govt. of Punjab.

(A) General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	M/s Prime Vision Industries Pvt Ltd 312, Vishal Chamber P-1, Sector-18, Noida, Uttar Pradesh. 9646210786 Primevision.pb.ec@gmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	P and M solution 9910037943 Manasvyas23@gmail.com

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

(iii). Sh. Harkesh Singh, Authorized Signatory, Prime Vision Industries, Pvt. Ltd.

(iv). Sh. Subash kumar, EIA Coordinator, P & M Solutions.

Environmental Consultant of the promoter company presented the salient features of the proposal as under:-

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/MIN/57360/2020
2.	Project Name & Location	Hamad Wala Uttar Sand Mining Project At Hadbast No-02, Village-Hamad Wala Uttar, Tehsil- Zira, District-Firozpur, Punjab
3	Project/activity covered under item of scheduled to the EIA	SI. No. 1(a)

	Notification, 14.09.2006.			
4	Details of Mining Lease			
i)	Mineral (s) to be mined	Sand		
ii)	Capacity of Mine	The Proposed production Capacity 67850.15 TPA.		
iii)	Mining Lease Area	Total area is 6.34 Ha		
iv)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt.	Reference No:1709-10 Date of Issue:09.07.2019 Validity of LOI: Mining Lease Area: 6.34 Ha. Mining Quantity: 67850.15 TPA		
5	HadBast No.	2		
6	Land Khasra No. & their consent details			
	Sr No	Type	Khasra No	
	1	Govt Land		
	2	Private Land	[31//1(8-0),2/2(5-10),9/3(4-15),10(8-0),11(8-0),12/1(4-0),20/1(7-7),20/2(0-13),19/1(4-2)][30//5(8-0),6(8-0),4/2(4-0),7/1(4-0),7/2(4-0),14(8-0),15(8-0),15(8-0),18(8-0),17/2(4-0),17/1(4-0),16(8-0),23/1/2(2-8),23/3/2/1(0-7),1(4-0)]	
7.	Latitude & Longitude			
	S.No.	Corner	Latitude	Longitude
	1	A	31°0'51.76"N	74°47'37.82"E
	2	B	31°0'51.72"N	74°47'29.64"E
	3	C	31°0'49.76"N	74°47'29.67"E
	4	D	31°0'49.74"N	74°47'28.23"E
	5	E	31°0'45.93"N	74°47'28.18"E
	6	F	31°0'45.83"N	74°47'25.85"E
	7	G	31°0'42.91"N	74°47'25.83"E
	8	H	31°0'42.87"N	74°47'27.62"E
	9	I	31°0'43.83"N	74°47'27.58"E
	10	J	31°0'43.76"N	74°47'37.24"E
	11	K	31°0'45.73"N	74°47'37.29"E

	12	L	31°0'45.72"N	74°47'37.20"E
	13	M	31°0'47.69"N	74°47'37.18"E
	14	N	31°0'47.69"N	74°47'37.43"E
	15	O	31°0'49.62"N	74°47'37.38"E
	16	P	31°0'49.62"N	74°47'37.64"E
	17	Q	31°0'51.75"N	74°47'22.11"E
	18	R	31°0'51.77"N	74°47'20.82"E
	19	S	31°0'49.77"N	74°47'20.92"E
	20	T	31°0'49.69"N	74°47'22.19"E
8	Whether the project attracts the General Condition.		No	
9.	Does the project involves diversion of forest land.If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof		No	
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	
11.	Land requirement for the project		Prior to the project proposal	
	Sr No.	Ownership pattern	Area in Ha	
	i)	Forest Land	Nil	
	ii)	Private land	6.34	
	iii)	Government land	Nil	
	iv)	Revenue land	Nil	
	v)	Other land	Nil	
	vi)	Total land	6.34	
	Present Land use Break Up			
	Sr No.	Land use	Area in Ha	
	i)	Agriculture Area	6.34	
	ii)	Waste/Barren Area	Nil	
	iii)	Settlement	Nil	
	iv)	Surface water Bodies	Nil	
	v)	Other(Specify)	Nil	

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held on 23.10.2020"

12.	Cost of the project	Rs. 2,40,05,338/-
13.	Environmental Clearance. Fee details	Rs 3170/- Vide NEFT No 614333653 dated 07.10.20
14.	Details of Final District Survey Report	Approved by :- District Commissioner .Ferozepur Reference No:728 Date of Issue: 8/06/2020
15	Details of visit report of Sub Divisional Level Committee	Date of visit: - 19.09.2012 Recommendation: Suitable for mining
16	Details of Mining Plan	Approved by :- State Geologists Punjab Approval Letter No: Glg/Pb/M.P./2020/hamadwala Uttar/543 Date of Approval: 14.08.2020 Approved Mining Lease Area: 6.34 Ha Approved Mining Quantity: 67850.15 Tonnes per annum. Depth of Mining (m):3.0 Metres.
17	Demarcation report of mining site	Date of demarcation:17.10.19
18.	Workers (when fully operational)	20 Persons.
19.	Water Requirements & source	Domestic: 0.40 KLD (@ 20 lpcd) Plantation: 0.30 KLD Dust Suppression: 4.00 KLD Total: 4.70 KLD Ground water/Others: Nil
20.	Waste water generation, Treatment & its Disposal	i) Quantity of Waste water : Nil KLD (80% of water requirement) ii) Treatment Method: Septic Tank Mode of Disposal: Plantation purpose.
21	Solid waste generation and its disposal	Solid waste will be disposed as per Solid Waste Management Rules, 2016.
22.	Green Belt Development Plan including no. of trees to be planted & its species.	Tree cutting (if any) : Nil The comprehensive plantation plan will be submitted at the time EC.
23.	Environment Management Plan along with Budgetary breakup and responsibility to implement	Prime Vision Industries Pvt Ltd. will be responsible for the implementation of EMP till the mining activities closed as per the mining

		plan. The comprehensive plan will be submitted at the time EC.
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SEAC was satisfied with the presentation. SEAC took a copy of the presentation on record.

2.0 Recommendations

After detailed deliberations, SEAC decided to forward the application of the project proponent to SEIAA with recommendation to issue Terms of Reference for preparing EIA report for mining of minor minerals (Sand) on Agricultural Land by "M/s Prime Vision Industries Private Limited" in the village Hamad Wala Uttar, Tehsil Zira District-Ferozepur, Punjab, as under:

Standard Terms of Reference (TOR) for Mining Project

- 1) Submit dully 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 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 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, 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.
- 5) Proper justification of use of semi-mechanized/mechanized method, if any, over the manual method of mining considering the location, thickness of sand deposition, agriculture land/river bed, with detailed calculations and benefits to be achieved for the Environment. Because as per Standard EC conditions provided in the Guidelines, 2016, 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 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.
- 7) 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.
 - 8) 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 copy of latest jamabandi and consent of all the owner of land.
 - 11) A copy of Mining Plan dully approved by the State Geologist
 - 12) Submit 1.0 Km radius map of the area from periphery of project site clearly indicating the physical features.
 - 13) Submit an undertaking to the effect that there is no other mine within 500 m. radius from the periphery of this site.
 - 14) Submit photographs of the mining site taken from all the four sides mentioning the coordinates of the project.
 - 15) Mining lay out 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.
 - 16) Submit Corporate Environment Responsibility (CER) Plan as per the OM dated 01.05.2018
 - 17) 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.

- 18) 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.
- 19) 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.
- 20) 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.
- 21) 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.
- 22) 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).
- 23) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating 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.
- 24) 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.
- 25) 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 spelt out in the EIA Report with 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 stakeholders at large, may also be detailed in the proposed safeguard measures in each case should also be provided.
- 26) 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.

- 27) 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 / lease period.
- 28) 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.
- 29) 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.
- 30) 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.
- 31) 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.
- 32) 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.
- 33) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 34) 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.
- 35) 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.

- 36) 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.
- 37) 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.
- 38) 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.
- 39) 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 downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
- 40) 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.

- 41) 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.
- 42) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 43) 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.
- 44) 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.
- 45) 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.
- 46) 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 provided.
- 47) 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.
- 48) 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 commencement 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.
- 49) 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.

- 50) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 51) 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.
- 52) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt 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.
- 53) 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.
- 54) 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.
- 55) 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.
- 56) 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.
- 57) 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.
- 58) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 59) A Disaster Management Plan shall be prepared and included in the EIA/EMP Report.
- 60) 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.

61) Besides the above, the below mentioned general points are also to be followed:

-
- a. The EIA document shall be printed on both sides, as far as possible.
- b. All documents to be properly referenced with index and continuous page numbering.
- c. The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
- d. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- e. 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.
- f. Where the documents provided are in a language other than English, an English translation should be provided.
- g. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
- h. 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.
- i. 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.
- j. 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.
- k. 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.
 - I. Submit a copy of presentation in PPT format along with application.
- 62) The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

Item No 194.05: Application for obtaining Terms of Reference under EIA notification dated 14.09.2006 for mining of minor minerals on Agricultural Land in the village Jhanda Bagga Purana, Tehsil Zira District- Ferozepur, Punjab submitted by Prime Vision Industries Private Limited. (Proposal No. SIA/PB/MIN/57347/2020)

M/s Prime Vision Industries Pvt Ltd has applied for obtaining Terms of Reference under EIA notification dated 14.09.2006 for mining of minor minerals (Sand) **On Agricultural Land in the village Jhanda Bagga Purana, Tehsil Zira District- Ferozepur, Punjab** on 09.03.2020. The project is covered under category 1 (a) of the Schedule appended to the said notification.

The project proponent submitted the application along with the documents as per the checklist. Further, the processing fee was deposited as per the Notification dated 27.06.2019 issued by the Govt. of Punjab.

(A) General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	M/s Prime Vision Industries Pvt Ltd 312, Vishal Chamber P-1, Sector-18, Noida, Uttar Pradesh. 9646210786 Primevision.pb.ec@gmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	P and M solution 9910037943 Manasvyas23@gmail.com

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i). Sh. Harkesh Singh, Authorized Signatory, Prime Vision Industries, Pvt. Ltd.
- (ii). Sh. Subash kumar, EIA Coordinator, P & M Solutions.

Environmental Consultant of the promoter company presented the salient features of the proposal as under:-

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/MIN/57347/2020
2.	Project Name & Location	Jhanda Bagga Purana Sand Mining Project At Hadbast No-176, Village-Jhanda Bagga Purana, Tehsil- Zira, District-Firozpur, Punjab
3	Project/activity covered under item of scheduled to the EIA	SI. No. 1(a)

	Notification, 14.09.2006.		
4	Details of Mining Lease		
i)	Mineral (s) to be mined	Sand	
ii)	Capacity of Mine	The Proposed production Capacity 53653.52 TPA.	
iii)	Mining Lease Area	Total area is 5.51 Ha	
iv)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt.	Reference No:1709-10 Date of Issue:09.07.2019 Validity of LOI: Mining Lease Area: 5.51 Ha. Mining Quantity: 53653.52 TPA	
5	HadBast No.	176	
6	Land Khasra No. & their consent details		
	Sr No	Type	Khasra No
	1	Govt Land	
	2	Private Land	[21//20/1 (5-12), 20/2(2-8), 21/1/1 (6-9),21/1/2(0-15), 21/2(1-7), 18/3(2-0), 18/2(2-0), 22(8-0),19/3(2-16), 19/1(4-0),19/2(1-4), 18/1(4-0),24//1/1(5-8),1/2(2-12)2(8-0),8(8-0),3(8-0),9/1(4-16,20//18(8-0)23(8-0),16(8-0),17/1(2-16),17/2(5-4)]
7.	Latitude & Longitude		
	S.No.	Corner	Latitude
	1	A	30° 58'39.08"N
	2	B	75° 5'13.18"E
	3	C	30° 58'35.33"N
	4	D	75° 5'13.00"E
	5	E	30° 58'35.30"N
	6	F	75° 5'15.60"E
	7	G	30° 58'37.04"N
	8	H	75° 5'15.67"E
	9	I	30° 58'37.00"N
	10	J	75° 5'20.68"E
	11	K	30° 58'32.66"N
			75° 5'24.41"E
			30° 58'30.48"N
			75° 5'24.52"E
			30° 58'30.41"N
			75° 5'24.41"E
			30° 58'30.41"N
			75° 5'27.63"E
			30° 58'34.95"N
			75° 5'27.73"E
			30° 58'35.02"N
			75° 5'25.82"E

	12	L	30° 58'36.91"N	75° 5'25.77"E	
	13	M	30° 58'36.97"N	75° 5'27.69"E	
	14	N	30° 58'39.01"N	75° 5'27.66"E	
8	Whether the project attracts the General Condition.		No		
9.	Does the project involves diversion of forest land.If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof		No		
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		
11.	Land requirement for the project		Prior to the project proposal		
			Sr No.	Ownership pattern	Area in Ha
			i)	Forest Land	Nil
			ii)	Private land	5.51
			iii)	Government land	Nil
			iv)	Revenue land	Nil
			v)	Other land	Nil
			vi)	Total land	5.51
			Present Land use Break Up		
			Sr No.	Land use	Area in Ha
			i)	Agriculture Area	5.51
			ii)	Waste/Barren Area	Nil
			iii)	Settlement	Nil
	iv)	Surface water Bodies	Nil		
	v)	Other (Specify)	Nil		
12.	Cost of the project		Rs. 6236680.46 Lakhs		
13.	Environmental Clearance. Fee details		Rs 3170/- Vide NEFT No 614333653 dated 07.10.20 as TOR fee.		
14.	Details of Final District Survey Report		Approved by :- District Commissioner .Ferozpur Reference No:728 Date of Issue: 8/06/2020		
15	Details of visit report of Sub Divisional Level Committee		Date of visit: - 9.07.2017 Recommendation: Suitable for mining		

16	Details of Mining Plan	Approved by :- State Geologists Punjab Approval Letter No: Glg/Pb/M.P./2020/Jhanda Bagga Purana/443 Date of Approval: 01.07.2020 Approved Mining Lease Area: 5.51 Ha Approved Mining Quantity: 53653.52 Tonnes per annum. Depth of Mining (m):3.0 Metres.
17	Demarcation report of mining site	Date of demarcation:17.12.19
18.	Workers (when fully operational)	20 Persons.
19.	Water Requirements & source	Domestic: 0.40 KLD (@ 20 lpcd) Plantation: 0.30 KLD Dust Suppression: 3.24 KLD Total: 3.94 KLD Ground water/Others: Nil
20.	Waste water generation, Treatment & its Disposal	i) Quantity of Waste water: (80% of water requirement) ii) Treatment Method: Septic Tank a) Mode of Disposal: Plantation purpose
21	Solid waste generation and its disposal	Solid waste will be disposed as per Solid Waste Management Rules, 2016.
22.	Green Belt Development Plan including no. of trees to be planted & its species.	Tree cutting (if any) : Nil The comprehensive plantation plan will be submitted at the time EC.
23.	Environment Management Plan along with Budgetary breakup and responsibility to implement	TOR case

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

2.0 Recommendations

After detailed deliberations, SEAC decided to forward the application of the project proponent to SEIAA with recommendation to issue Terms of Reference for preparing EIA report for mining of minor minerals (Sand) on Agricultural Land by "M/s Prime Vision Industries Private Limited" village Jhanda Bagga Purana, Tehsil Zira District- Ferozepur, Punjab, as under:

Standard Terms of Reference (TOR) for Mining Project

- 1) Submit dully 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 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 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, 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.
- 5) Proper justification of use of semi-mechanized/mechanized method, if any, over the manual method of mining considering the location, thickness of sand deposition, agriculture land/river bed, with detailed calculations and benefits to be achieved for the Environment. Because as per Standard EC conditions provided in the Guidelines, 2016, 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 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.
- 7) 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.
- 8) 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 copy of latest jamabandi and consent of all the owner of land.
- 11) A copy of Mining Plan dully approved by the State Geologist
- 12) Submit 1.0 Km radius map of the area from periphery of project site clearly indicating the physical features.
- 13) Submit an undertaking to the effect that there is no other mine within 500 m. radius from the periphery of this site.
- 14) Submit photographs of the mining site taken from all the four sides mentioning the coordinates of the project.
- 15) Mining lay out 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.
- 16) Submit Corporate Environment Responsibility (CER) Plan as per the OM dated 01.05.2018
- 17) 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.
- 18) 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.
- 19) 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.
- 20) 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.
- 21) 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.
- 22) 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).

- 23) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating 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.
- 24) 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.
- 25) 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 spelt out in the EIA Report with 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 stakeholders at large, may also be detailed in the proposed safeguard measures in each case should also be provided.
- 26) 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.
- 27) 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 / lease period.
- 28) 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.
- 29) 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.
- 30) 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.

- 31) 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.
- 32) 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.
- 33) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 34) 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.
- 35) 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.
- 36) 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.
- 37) 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.
- 38) 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.

- 39) 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 downwind direction. The mineralogical composition of PM₁₀, particularly for free silica, should be given.
- 40) 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.
- 41) 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.
- 42) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 43) 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.
- 44) 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.
- 45) 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.

- 46) 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 provided.
- 47) 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.
- 48) 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 commencement 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.
- 49) 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.
- 50) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 51) 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.
- 52) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt 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.
- 53) 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.
- 54) 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.

- 55) 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.
- 56) 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.
- 57) 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.
- 58) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 59) A Disaster Management Plan shall be prepared and included in the EIA/EMP Report.
- 60) 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.
- 61) Besides the above, the below mentioned general points are also to be followed: -
 - a. The EIA document shall be printed on both sides, as far as possible.
 - b. All documents to be properly referenced with index and continuous page numbering.
 - c. The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
 - d. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - e. 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.
 - f. Where the documents provided are in a language other than English, an English translation should be provided.
 - g. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - h. 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.
 - i. 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.

- j. 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.
 - k. The EIA report should also include
 - (iv) surface plan of the area indicating contours of main topographic features, drainage and mining area,
 - (v) geological maps and sections and
 - (vi) Sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
 - l. Submit a copy of presentation in PPT format along with application.
- 62) The 'Terms of Reference' (TORs) prescribed will be valid for a period of three years from its issuance. The final EIA report shall be submitted to the SEIAA, Punjab for obtaining environmental clearance.

Item No 194.06 : Regarding extension in the validity of Environmental Clearance granted under EIA notification dated 14.09.2006 to General Manager-cum-Mining Officer, District Industries Centre, Jalandhar and transferred in the name of Sh. Rakesh Kumar Chaudhary 51B/D Gandhi Nagar, Jammu J&K, for mining of minor minerals in the revenue estate of village-Bhallan, Tehsil- Nangal, District- Ropar, (Rupnagar).

1.0 Background

The Director, Department of Industries, Govt. of Punjab was granted Environmental Clearance under EIA notification dated 14.09.2006 by MoEF, Govt. of India, vide no. J-11015/159/2010-IA-II(M) dated 28/06/2013 for carrying out mining of minor minerals (sand) @ 12,240 TPA in an area of 5.77 Ha in the revenue estate of village- Bhallan, Tehsil- Nangal, District- Ropar,(Rupnagar), subject to certain conditions. Later on, the said Environmental Clearance was transferred in the name of Rakesh Kumar Chaudhary 51B/D Gandhi Nagar, Jammu J&K, vide letter no. SEIAA/MS/2020/1346 dated 16/01/2020.

After perusal of the said Environmental Clearance, it has been observed that an interstate boundary between Punjab & Himacahal Pradesh lie within 10km radius of the mine lease area. However, MoEF vide notification no. S.O. 3977(E) dated 14.08.2018 has made amendment in the EIA Notification dated 14.09.2006 to the effect that the project/ activities related to mining of minerals (Non-Coal Mines) of area less than 100 hectare fall under Category-B projects, if General Conditions are not applicable. As per the said OM, the General Conditions are not applicable as the mining area is less than 25 ha and an interstate boundary falls within 10km of the site. Thus, on this account, the competency to decide the case lies with SEIAA, Punjab.

There is no Protected Forest within 10KM Radius from mine lease boundary. No National Park/ Wildlife Sactuary falls within 10 km from the boundary of the mine lease. Mine working will be manual. No drilling and blasting is to be carried out. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.

2.0 Present Case

The contractor has applied for obtaining extension in the validity of the said Environmental Clearance which was granted by the MoEF and later on transferred in the name of contractor. The contractor has submitted the requisite documents i.e. copy of previous EC, copy of Aks Sajra Map, Demarcation report dated 15.11.2019, e-Auction notice, Mining status certificate issued by Mining Department, Ropar, DSR, approved mining plan dated 03.08.2020. undertaking regarding non-submission of the compliance report and Red Line drawing. The project proponent has submitted Rs. 10,200/- vide NEFT jaka2006113929110 dated26.06.2020.

As per the MoEF, OM dated 14.09.2016, the validity of Environmental Clearance granted to the mining cases can be extended for a period of thirty years. The provisional acceptance letter has been issued by the Department of Mines and Geology, Punjab vide letter no. 1073 dated 22.07.2019, having validity for a period of three years i.e. upto 21.07.2022.

3.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i) Sh. Amit Kumar, Authorized Signatory from the Promoter company.
- (ii) Sh. Arun Yadav, EIA Coordinator, M/s Overseac Mintech Consultant
- (iii) Sh. Jivan Yadav, FAE, M/s Overseac Mintech Consultant

SEAC was apprised that Project Proponent has submitted application for extension in the Validity before the expiry of Environmental Clearance granted to it.

MoEF&CC, Regional Office Chandigarh vide letter no. 518 dated 31.08.2020 in reference to the SEAC letter No. 1912 dated 18.08.2020 regarding seeking Certified Compliance Report for considering the applications for extension of validity of EC by SEAC, Punjab informed that as per various circulars issued by the MoEF&CC on 20/ 10/2009; 30/05/2012; & 07/09/2017, certified compliance report is required only in those cases where the project proponent has applied for Capacity Enhancement and concerned SEAC is also mandated to request the same while issuing ToRs. Accordingly, MoEF intimated that there does not seem any requirement to act on the request received from SEAC vide letter dated 18/08/2020 for certified compliance report. Necessary decision regarding extension of validity of EC may kindly be taken at the level of SEAC Punjab as deemed appropriate.

As such, in the case under reference, the applicant has applied for 'Extension of Validity of EC' with SEAC Punjab and not for 'Capacity Enhancement'. Hence, Certified Compliance report from the office of MoEF&CC, Regional Office, Chandigarh is not required.

Environment Consultant of the promoter company presented the salient features of the project. A copy of the presentation submitted Project Proponent was taken on record by the SEAC. To a query of SEAC regarding the cluster formation, Environment Consultant informed that no other mining sites fall within the radius of 500 m from the periphery of mining lease area. SEAC was satisfied with the presentation.

4.0 Recommendations

After detailed deliberations, the SEAC after going through the details of the project and keeping in view of the provisions of EIA notification, 14.09.2006, decided to recommended the case to SEIAA for issuing letter of extension in the validity of environmental clearance upto 21.07.2022 or till the completion of mining activities, whichever is earlier with the following additional conditions:-

- 1) The project proponent shall monitor the bed levels of the river pre monsoon and post monsoon and submit the compliance report to the Mining Department.

- 2) The Mining Department shall allow the mining activities on the mining site after ensuring the compliance of the conditions of Environment Clearance granted to the project.

Item No 194.07: Regarding extension in the validity of Environmental Clearance granted under EIA notification dated 14.09.2006 to General Manager-cum-Mining Officer, District Industries Centre, Jalandhar and transferred in the name of M/s Rakesh Kumar Chaudhary 51B/D Gandhi Nagar, Jammu J&K, for mining of minor minerals in the revenue estate of village- Dayapur, Tehsil- Nangal, District- Ropar, (Rupnagar).

Facts of the case are as under:

The Director, Department of Industries, Govt. of Punjab was granted Environmental Clearance under EIA notification dated 14.09.2006 by MoEF, Govt. of India, vide no. J-11015/159/2010-IA-II(M) dated 28/06/2013 for carrying out mining of minor minerals (sand) @ 63,000 TPA in an area of 51.92 Hain the revenue estate of village- Dayapur, Tehsil- Nangal, District- Ropar,(Rupnagar), subject to certain conditions. The said Environmental Clearance was transferred in the name of Rakesh Kumar Chaudhary 51B/D Gandhi Nagar, Jammu J&K, vide letter no. SEIAA/MS/2020/1346 dated 16/01/2020.

It is pertinent to mention here, EC in this case was earlier granted by MOEF vide no. J-11015/159/2010-IA. II(M) dated 28.06.2013. After perusal of the said Environmental Clearance it has been observed that an interstate boundary between Punjab & Himachal Pradesh lie within 10km radius of the mine lease area. However, MoEF vide notification no. S.O. 3977(E) dated 14.08.2018 has made amendment in the EIA Notification dated 14.09.2006 to the effect that the project/ activities related to mining of minerals (Non-Coal Mines) of area less than 100 hectare fall under Category-B projects, if General Conditions are not applicable. As per the said OM, the General Conditions are not applicable as the mining area is less than 25 ha and an interstate boundary falls within 10km of the site. Thus, on this account, the competency to decide the case lies with SEIAA, Punjab.

As per the said EC letter, no forestland is involved and no National Park/ Wildlife Sanctuary falls within 10 km from the boundary of the mine lease. Mine working will be semi-mechanised. No drilling and blasting is to be carried out. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.

Now, the contractor has applied for obtaining extension in the validity of the said Environmental Clearance which was granted by the MoEF and later on transferred in the name of contractor. The contractor has submitted the requisite documents i.e. copy of

previous EC, copy of Aks Sajra Map, Demarcation report dated 15.11.2019, e-Auction notice, Mining certificate issued by Mining Department, Ropar, DSR, approved mining plan dated 03.08.2020. undertaking regarding non-submission of the compliance report and Red Line drawing. The project proponent has submitted Rs. 97,360/- vide NEFT JAKA200611392926 dated 26.06.2020.

As per the MoEF, OM dated 14.09.2016, the validity of Environmental Clearance granted to the mining cases can be extended for a period of thirty years. The provisional acceptance letter has been issued by the Department of Mines and Geology, Punjab vide letter no. 1073 dated 22.07.2019, having validity for a period of three years i.e. upto 21.07.2022.

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i) Sh. Amit Kumar, Authorized Signatory from the Promoter company.
- (ii) Sh. Arun Yadav, EIA Coordinator, M/s Overseac Mintech Consultant
- (iii) Sh. Jivan Yadav, FAE, M/s Overseac Mintech Consultant

SEAC was apprised that Project Proponent has submitted application for extension in the Validity before the expiry of Environmental Clearance granted to it.

MoEF&CC, Regional Office Chandigarh vide letter no. 518 dated 31.08.2020 in reference to the SEAC letter No. 1912 dated 18.08.2020 regarding seeking Certified Compliance Report for considering the applications for extension of validity of EC by SEAC, Punjab informed that as per various circulars issued by the MoEF&CC on 20/ 10/2009; 30/05/2012; & 07/09/2017, certified compliance report is required only in those cases where the project proponent has applied for Capacity Enhancement and concerned SEAC is also mandated to request the same while issuing ToRs. Accordingly, MoEF intimated that there does not seem any requirement to act on the request received from SEAC vide letter dated 18/08/2020 for certified compliance report. Necessary decision regarding extension of validity of EC may kindly be taken at the level of SEAC Punjab as deemed appropriate.

As such, in the case under reference, the applicant has applied for 'Extension of Validity of EC' with SEAC Punjab and not for 'Capacity Enhancement'. Hence, Certified Compliance report from the office of MoEF&CC, Regional Office, Chandigarh is not required.

Environment Consultant of the promoter company presented the salient features of the project. A copy of the presentation submitted Project Proponent was taken on record by the SEAC. To a query of SEAC regarding the cluster formation, Environment Consultant informed that no other mining sites fall within the radius of 500 m from the periphery of mining lease area. SEAC was satisfied with the presentation.

2.0 Recommendations

After detailed deliberations, the SEAC after going through the details of the project and keeping in view of the provisions of EIA notification, 14.09.2006, decided to

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held on 23.10.2020”

recommended the case to SEIAA for issuing letter of extension in the validity of environmental clearance upto 21.07.2022 or till the completion of mining activities, whichever is earlier with the following additional conditions:-

- 1) The project proponent shall monitor the bed levels of the river pre monsoon and post monsoon and submit the compliance report to the Mining Department.
- 2) The Mining Department shall allow the mining activities on the mining site after ensuring the compliance of the conditions of Environment Clearance granted to the project.

Item No.194.08: Regarding extension in the validity of Environmental Clearance granted under EIA notification dated 14.09.2006 to General Manager-cum-Mining Officer, District Industries Centre, Jalandhar and transferred in the name of M/s Rakesh Kumar Chaudhary 51B/D Gandhi Nagar, Jammu J&K, for mining of minor minerals in the revenue estate of village- Plassi, Tehsil- Nangal, District- Ropar, (Rupnagar).

Facts of the case are as under: -

The Director, Department of Industries, Govt. of Punjab was granted Environmental Clearance under EIA notification dated 14.09.2006 by MoEF, Govt. of India, vide no. J-11015/159/2010-IA-II(M) dated 28/06/2013 for carrying out mining of minor minerals (sand) @ 22,000 TPA in an area of 19.45 Ha in the revenue estate of village- Plassi, Tehsil- Nangal, District- Ropar,(Rupnagar), subject to certain conditions. The said Environmental Clearance was transferred in the name of Rakesh Kumar Chaudhary 51B/D Gandhi Nagar, Jammu J&K, vide letter no. SEIAA/MS/2020/1314 dated 16/01/2020.

It is pertinent to mention here, EC in this case was earlier granted by MOEF vide no. J-11015/159/2010-IA. II(M) dated 28.06.2013. After perusal of the said Environmental Clearance it has been observed that an interstate boundary between Punjab & Himachal Pradesh lie within 10km radius of the mine lease area. However, MoEF vide notification no. S.O. 3977(E) dated 14.08.2018 has made amendment in the EIA Notification dated 14.09.2006 to the effect that the project/ activities related to mining of minerals (Non-Coal Mines) of area less than 100 hectare fall under Category-B projects, if General Conditions are not applicable. As per the said OM, the General Conditions are not applicable as the mining area is less than 25 ha and an interstate boundary falls within 10km of the site. Thus, on this account, the competency to decide the case lies with SEIAA, Punjab.

As per the said EC letter, no forestland is involved. There is no Protected Forest within 10KM radius from mine lease boundary. No National Park/ Wildlife Sanctuary falls within 10 km from the boundary of the mine lease. Mine working will be manual. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.

The contractor has applied for obtaining extension in the validity of the said Environmental Clearance which was granted by the MoEF and later on transferred in the name of contractor. The contractor has submitted the requisite documents i.e. copy of previous EC, copy of Aks Sajra Map, Demarcation report dated 15.11.2019, e-Auction notice, Mining certificate issued by Mining Department, Ropar, DSR, approved mining plan, undertaking regarding non-submission of the compliance report and Red Line drawing. The project proponent has submitted Rs. 9,725/- vide NEFT JAKA200626494176 and Rs. 29,175/- through Corporation Bank.

As per the MoEF, OM dated 14.09.2016, the validity of Environmental Clearance granted to the mining cases can be extended for a period of thirty years. The provisional acceptance letter has been issued by the Department of Mines and Geology, Punjab vide letter no. 1073 dated 22.07.2019, having validity for a period of three years i.e. upto 21.07.2022.

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i) Sh. Amit Kumar, Authorized Signatory from the Promoter company.
- (ii) Sh. Arun Yadav, EIA Coordinator, M/s Overseac Mintech Consultant
- (iii) Sh. Jivan Yadav, FAE, M/s Overseac Mintech Consultant

SEAC was apprised that Project Proponent has submitted application for extension in the Validity before the expiry of Environmental Clearance granted to it.

MoEF&CC, Regional Office Chandigarh vide letter no. 518 dated 31.08.2020 in reference to the SEAC letter No. 1912 dated 18.08.2020 regarding seeking Certified Compliance Report for considering the applications for extension of validity of EC by SEAC, Punjab informed that as per various circulars issued by the MoEF&CC on 20/ 10/2009; 30/05/2012; & 07/09/2017, certified compliance report is required only in those cases where the project proponent has applied for Capacity Enhancement and concerned SEAC is also mandated to request the same while issuing ToRs. Accordingly, MoEF intimated that there does not seem any requirement to act on the request received from SEAC vide letter dated 18/08/2020 for certified compliance report. Necessary decision regarding extension of validity of EC may kindly be taken at the level of SEAC Punjab as deemed appropriate.

As such, in the case under reference, the applicant has applied for 'Extension of Validity of EC' with SEAC Punjab and not for 'Capacity Enhancement'. Hence, Certified Compliance report from the office of MoEF&CC, Regional Office, Chandigarh is not required.

Environment Consultant of the promoter company presented the salient features of the project. A copy of the presentation submitted Project Proponent was taken on record by the SEAC. To a query of SEAC regarding the cluster formation, Environment Consultant informed that no other mining sites fall within the radius of 500 m from the periphery of mining lease area. SEAC was satisfied with the presentation.

2.0 Recommendations

After detailed deliberations, the SEAC after going through the details of the project and keeping in view of the provisions of EIA notification, 14.09.2006, decided to recommend the case to SEIAA for issuing letter of extension in the validity of environmental clearance upto 21.07.2022 or till the completion of mining activities, whichever is earlier with the following additional conditions:-

- 1) The project proponent shall monitor the bed levels of the river pre monsoon and post monsoon and submit the compliance report to the Mining Department.
- 2) The Mining Department shall allow the mining activities on the mining site after ensuring the compliance of the conditions of Environment Clearance granted to the project.

Item No.194.09: Regarding extension in the validity of Environmental Clearance granted under EIA notification dated 14.09.2006 to General Manager-cum-Mining Officer, District Industries Centre, Jalandhar and transferred in the name of Sh. Rakesh Kumar Chaudhary 51B/D Gandhi Nagar, Jammu J&K, for mining of minor minerals in the revenue estate of village- Surewal, Tehsil- Nangal, District- Ropar, (Rupnagar).

Facts of the case are as under: -

The Director, Department of Industries, Govt. of Punjab was granted Environmental Clearance under EIA notification dated 14.09.2006 by MoEF, Govt. of India, vide no. J-11015/159/2010-IA-II(M) dated 28/06/2013 for carrying out mining of minor minerals (sand) @ 78161 TPA in an area of 73.12 Ha in the revenue estate of village- Bhallan, Tehsil- Nangal, District- Ropar,(Rupnagar), subject to certain conditions. Later on, the said Environmental Clearance was transferred in the name of Rakesh Kumar Chaudhary 51B/D Gandhi Nagar, Jammu J&K, vide letter no. SEIAA/MS/2020/1365 dated 16/01/2020.

It is pertinent to mention here, EC in this case was earlier granted by MOEF vide no. J-11015/159/2010-IA.II(M) dated 28.06.2013. After perusal of the said Environmental Clearance it has been observed that an interstate boundary between Punjab & Himacahal Pradesh lie within 10km radius of the mine lease area. However, MoEF vide notification no. S.O. 3977(E) dated 14.08.2018 has made amendment in the EIA Notification dated 14.09.2006 to the effect that the project/ activities related to mining of minerals (Non-Coal Mines) of area less than 100 hectare fall under Category-B projects, if General Conditions are not applicable. As per the said OM, the General Conditions are not applicable as the mining area is less than 25 ha and an interstate boundary falls within 10km of the site. Thus, on this account, the competency to decide the case lies with SEIAA, Punjab.

As per the said EC letter, no forestland is involved and no National Park/ Wildlife Sanctuary falls within 10 km from the boundary of the mine lease. Mine working will be semi-mechanised. No drilling and blasting is to be carried out. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.

The contractor has applied for obtaining extension in the validity of the said Environmental Clearance which was granted by the MoEF and later on transferred in the name of contractor. The contractor has submitted the requisite documents i.e. copy of previous EC, copy of Aks Sajra Map, Demarcation report dated 15.11.2019, e-Auction notice, Mining status certificate issued by Mining Department, Ropar, DSR, approved mining plan dated 03.08.2020. undertaking regarding non-submission of the compliance report and Red Line drawing. The project proponent has submitted Rs. 1,05,500/- vide no.4618 dated 08.07.2020

As per the MoEF, OM dated 14.09.2016, the validity of Environmental Clearance granted to the mining cases can be extended for a period of thirty years. The provisional acceptance letter has been issued by the Department of Mines and Geology, Punjab vide letter no. 1073 dated 22.07.2019, having validity for a period of three years i.e. upto 21.07.2022.

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i) Sh. Amit Kumar, Authorized Signatory from the Promoter company.
- (ii) Sh. Arun Yadav, EIA Coordinator, M/s Overseac Mintech Consultant
- (iii) Sh. Jivan Yadav, FAE, M/s Overseac Mintech Consultant

SEAC was apprised that Project Proponent has submitted application for extension in the Validity before the expiry of Environmental Clearance granted to it.

MoEF&CC, Regional Office Chandigarh vide letter no. 518 dated 31.08.2020 in reference to the SEAC letter No. 1912 dated 18.08.2020 regarding seeking Certified Compliance Report for considering the applications for extension of validity of EC by SEAC, Punjab informed that as per various circulars issued by the MoEF&CC on 20/ 10/2009; 30/05/2012; & 07/09/2017, certified compliance report is required only in those cases where the project proponent has applied for Capacity Enhancement and concerned SEAC is also mandated to request the same while issuing ToRs. Accordingly, MoEF intimated that there does not seem any requirement to act on the request received from SEAC vide letter dated 18/08/2020 for certified compliance report. Necessary decision regarding extension of validity of EC may kindly be taken at the level of SEAC Punjab as deemed appropriate.

As such, in the case under reference, the applicant has applied for 'Extension of Validity of EC' with SEAC Punjab and not for 'Capacity Enhancement'. Hence, Certified Compliance report from the office of MoEF&CC, Regional Office, Chandigarh is not required.

Environment Consultant of the promoter company presented the salient features of the project. A copy of the presentation submitted Project Proponent was taken on record by the SEAC. To a query of SEAC regarding the cluster formation, Environment Consultant informed that no other mining sites fall within the radius of 500 m from the periphery of mining lease area. SEAC was satisfied with the presentation.

2.0 Recommendations

After detailed deliberations, the SEAC after going through the details of the project and keeping in view of the provisions of EIA notification, 14.09.2006, decided to recommend the case to SEIAA for issuing letter of extension in the validity of environmental clearance upto 21.07.2022 or till the completion of mining activities, whichever is earlier with the following additional conditions:-

- 1) The project proponent shall monitor the bed levels of the river pre monsoon and post monsoon and submit the compliance report to the Mining Department.
- 2) The Mining Department shall allow the mining activities on the mining site after ensuring the compliance of the conditions of Environment Clearance granted to the project.

Item No.194.10: Regarding extension in the validity of Environmental Clearance granted under EIA notification dated 14.09.2006 to General Manager-cum-Mining Officer, District Industries Centre, Jalandhar and transferred in the name of M/s Sainik Foods Private Limited, Plot no. 201 & 202, Vikas Plaza, Building No. 2, Local Shopping Centre, Kalka ji, New Delhi, for mining of minor minerals in the revenue estate of Village Barsoon, Tehsil Pathankot, District Pathankot.

Facts of the case are as under: -

The Director, Department of Industries, Govt. of Punjab was granted Environmental Clearance under EIA notification dated 14.09.2006 by MoEF, Govt. of India, vide no. J-11015/159/2010-IA-II(M) dated 28/06/2013 for carrying out mining of minor minerals (sand) @ 1.00 lakhs TPA in an area of 12.40 Hain the revenue estate of Village Barsoon, Tehsil & District Pathankot, subject to certain conditions. Later on, the said Environmental Clearance was transferred in the name of M/s Sainik Foods Private Limited, Plot no. 201 & 202, Vikas Plaza, Building No. 2, Local Shopping Centre, Kalka ji, New Delhi by SEIAA, Punjab vide letter no. SEIAA/MS/2020/1346 dated 16/01/2020.

It is pertinent to mention here, EC in this case was earlier granted by MOEF vide no. J-11015/159/2010-IA.II(M) dated 28.06.2013. After perusal of the said Environmental Clearance it has been observed that an interstate boundary between Punjab & Himacahal Pradesh lie within 10km radius of the mine lease area. However, MoEF vide notification no. S.O. 3977(E) dated 14.08.2018 has made amendment in the EIA Notification dated 14.09.2006 to the effect that the project/ activities related to mining of minerals (Non-Coal Mines) of area less than 100 hectare fall under Category-B projects, if General Conditions are not applicable. As per the said OM, the General Conditions are not applicable as the mining area is less than 25 ha and an interstate boundary falls within 10km of the site. Thus, on this account, the competency to decide the case lies with SEIAA, Punjab.

As per the said EC letter, Indur, Malkot Karar, Samu, Nagwal, Damtal, Nehar ki Bir, Sugar nal & Laran, Odhwan and Agra da ban Protected forests fall within the 10km radius from mine lease boundary. Also, no National Park/ Wildlife Sactuary fall within 10 km from the boundary of the mine lease. Mine working will be semi-mechanised. No drilling and blasting is to be carried out. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid

ponding effect and after first layer is excavated, the process will be repeated for the next layers.

The contractor has applied for obtaining extension in the validity of the said Environmental Clearance which was granted by the MoEF and later on transferred in the name of contractor. The contractor has submitted the requisite documents i.e. copy of previous EC, copy of Aks Sajra Map, Demarcation report dated 22.11.2019, e-Auction notice, Mining certificate issued by Mining Department, Pathankot, DSR, approved mining plan , undertaking regarding non-submission of the compliance report and Red Line drawing. The project proponent has submitted Rs. 24,800/- vide NEFT PUBH20177965788 Dated 25.06.2020.

As per the MoEF, OM dated 14.09.2016, the validity of Environmental Clearance granted to the mining cases can be extended for a period of thirty years. The provisional acceptance letter has been issued by the Department of Mines and Geology, Punjab vide letter no. 1073 dated 22.07.2019, having validity for a period of three years i.e. upto 21.07.2022.

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i) Sh. Deepak Kumar, Authorized Signatory from the Promoter company.
- (ii) Sh. Arun Yadav, EIA Coordinator, M/s Overseac Mintech Consultant
- (iii) Sh. Jivan Yadav, FAE, M/s Overseac Mintech Consultant

SEAC was apprised that Project Proponent has submitted application for extension in the Validity before the expiry of Environmental Clearance granted to it.

MoEF&CC, Regional Office Chandigarh vide letter no. 518 dated 31.08.2020 in reference to the SEAC letter No. 1912 dated 18.08.2020 regarding seeking Certified Compliance Report for considering the applications for extension of validity of EC by SEAC, Punjab informed that as per various circulars issued by the MoEF&CC on 20/ 10/2009; 30/05/2012; & 07/09/2017, certified compliance report is required only in those cases where the project proponent has applied for Capacity Enhancement and concerned SEAC is also mandated to request the same while issuing ToRs. Accordingly, MoEF intimated that there does not seem any requirement to act on the request received from SEAC vide letter dated 18/08/2020 for certified compliance report. Necessary decision regarding extension of validity of EC may kindly be taken at the level of SEAC Punjab as deemed appropriate.

As such, in the case under reference, the applicant has applied for 'Extension of Validity of EC' with SEAC Punjab and not for 'Capacity Enhancement'. Hence, Certified Compliance report from the office of MoEF&CC, Regional Office, Chandigarh is not required.

Environment Consultant of the promoter company presented the salient features of the project. A copy of the presentation submitted Project Proponent was taken on record by

the SEAC. To a query of SEAC regarding the cluster formation, Environment Consultant informed that no other mining sites fall within the radius of 500 m from the periphery of mining lease area. SEAC was satisfied with the presentation.

2.0 Recommendations

After detailed deliberations, the SEAC after going through the details of the project and keeping in view of the provisions of EIA notification, 14.09.2006, decided to recommend the case to SEIAA for issuing letter of extension in the validity of environmental clearance upto 21.07.2022 or till the completion of mining activities, whichever is earlier with the following additional conditions:-

- 1) The project proponent shall monitor the bed levels of the river pre monsoon and post monsoon and submit the compliance report to the Mining Department.
- 2) The Mining Department shall allow the mining activities on the mining site after ensuring the compliance of the conditions of Environment Clearance granted to the project.

Item No.194.11: Regarding extension in the validity of Environmental Clearance granted under EIA notification dated 14.09.2006 to General Manager-cum-Mining Officer, District Industries Centre, Jalandhar and transferred in the name of M/s Sainik Foods Private Limited, Plot no. 201 & 202, Vikas Plaza, Building No. 2, Local Shopping Centre, Kalka ji, New Delhi, for mining of minor minerals in the revenue estate of Village Dulpot, Tehsil Pathankot, District Pathankot.

Facts of the case are as under: -

The Director, Department of Industries, Govt. of Punjab was granted Environmental Clearance under EIA notification dated 14.09.2006 by MoEF, Govt. of India, vide no. J-11015/159/2010-IA-II(M) dated 28/06/2013 for carrying out mining of minor minerals (sand) @ 1.00 lakhs TPA in an area of 11.60 Hain the revenue estate of Village Dulpot, Tehsil & District Pathankot, subject to certain conditions. Later on, the said Environmental Clearance was transferred in the name of M/s Sainik Foods Private Limited, Plot no. 201 & 202, Vikas Plaza, Building No. 2, Local Shopping Centre, Kalka ji, New Delhi by SEIAA, Punjab vide letter no. SEIAA/MS/2020/1346 dated 16/01/2020.

It is pertinent to mention here, EC in this case was earlier granted by MOEF vide no. J-11015/159/2010-IA-II(M) dated 28.06.2013. After perusal of the said Environmental Clearance it has been observed that an interstate boundary between Punjab & J&K lies within 10km radius of the mine lease area. However, MoEF vide notification no. S.O. 3977(E) dated 14.08.2018 has made amendment in the EIA Notification dated 14.09.2006 to the effect that the project/ activities related to mining of minerals (Non-Coal Mines) of area less than 100 hectare fall under Category-B projects, if General

Conditions are not applicable. As per the said OM, the General Conditions are not applicable as the mining area is less than 25 ha and an interstate boundary falls within 10km of the site. Thus, on this account, the competency to decide the case lies with SEIAA, Punjab.

As per the said EC letter, no forestland is involved. There is Nehar Ki Bir Protected Forest within 10KM radius from lease boundary. Kathlaur Kaushlian Wildlife Sanctuary lies within buffer zone of the mine at a distance of 3KM in south west directions. Mine working will be semi-mechanised. No drilling and blasting is to be carried out. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.

The contractor has applied for obtaining extension in the validity of the said Environmental Clearance which was granted by the MoEF and later on transferred in the name of contractor. The contractor has submitted the requisite documents i.e. copy of previous EC, copy of Aks Sajra Map, Demarcation report dated 15.10.2019, e-Auction notice, Mining certificate issued by Mining Department, Pathankot, DSR, approved mining plan, undertaking regarding non-submission of the compliance report and Red Line drawing. The project proponent has submitted Rs. 23,200/- vide NEFT PUNBH20177966625 dated 25.06.2020.

As per the MoEF, OM dated 14.09.2016, the validity of Environmental Clearance granted to the mining cases can be extended for a period of thirty years. The provisional acceptance letter has been issued by the Department of Mines and Geology, Punjab vide letter no. 1073 dated 22.07.2019, having validity for a period of three years i.e. upto 21.07.2022.

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i) Sh. Deepak Kumar, Authorized Signatory from the Promoter company.
- (ii) Sh. Arun Yadav, EIA Coordinator, M/s Overseac Mintech Consultant
- (iii) Sh. Jivan Yadav, FAE, M/s Overseac Mintech Consultant

SEAC was apprised that Project Proponent has submitted application for extension in the Validity before the expiry of Environmental Clearance granted to it.

MoEF&CC, Regional Office Chandigarh vide letter no. 518 dated 31.08.2020 in reference to the SEAC letter No. 1912 dated 18.08.2020 regarding seeking Certified Compliance Report for considering the applications for extension of validity of EC by SEAC, Punjab informed that as per various circulars issued by the MoEF&CC on 20/ 10/2009; 30/05/2012; & 07/09/2017, certified compliance report is required only in those cases where the project proponent has applied for Capacity Enhancement and concerned SEAC is also mandated to request the same while issuing ToRs. Accordingly, MoEF intimated that there does not seem any requirement to act on the request received from SEAC vide

letter dated 18/08/2020 for certified compliance report. Necessary decision regarding extension of validity of EC may kindly be taken at the level of SEAC Punjab as deemed appropriate.

As such, in the case under reference, the applicant has applied for 'Extension of Validity of EC' with SEAC Punjab and not for 'Capacity Enhancement'. Hence, Certified Compliance report from the office of MoEF&CC, Regional Office, Chandigarh is not required.

Environment Consultant of the promoter company presented the salient features of the project. A copy of the presentation submitted Project Proponent was taken on record by the SEAC. To a query of SEAC regarding the cluster formation, Environment Consultant informed that no other mining sites fall within the radius of 500 m from the periphery of mining lease area. SEAC was satisfied with the presentation.

2.0 Recommendations

After detailed deliberations, the SEAC after going through the details of the project and keeping in view of the provisions of EIA notification, 14.09.2006, decided to recommended the case to SEIAA for issuing letter of extension in the validity of environmental clearance upto 21.07.2022 or till the completion of mining activities, whichever is earlier with the following additional conditions:-

- 1) The project proponent shall monitor the bed levels of the river pre monsoon and post monsoon and submit the compliance report to the Mining Department.
- 2) The Mining Department shall allow the mining activities on the mining site after ensuring the compliance of the conditions of Environment Clearance granted to the project.

Item No.194.12: Regarding extension in the validity of Environmental Clearance granted under EIA notification dated 14.09.2006 to General Manager-cum-Mining Officer, District Industries Centre, Jalandhar and transferred in the name of M/s Sainik Foods Private Limited, Plot no. 201 & 202, Vikas Plaza, Building No. 2, Local Shopping Centre, Kalka ji, New Delhi, for mining of minor minerals in the revenue estate of Village Mamoon, Tehsil Pathankot, District Pathankot.

Facts of the case are as under: -

The Director, Department of Industries, Govt. of Punjab was granted Environmental Clearance under EIA notification dated 14.09.2006 by MoEF, Govt. of India, vide no. J-11015/159/2010-IA-II(M) dated 28/06/2013 for carrying out mining of minor minerals (sand) @ 5.28 lakhs TPA in an area of 88 Ha in the revenue estate of Village Mamoon, Tehsil & District Pathankot, subject to certain conditions. Later on, the said Environmental Clearance was transferred in the name of M/s Sainik Foods Private Limited, Plot no. 201 & 202, Vikas Plaza, Building No. 2, Local Shopping Centre, Kalka ji, New Delhi by SEIAA, Punjab vide letter no. SEIAA/MS/2020/1409 dated 16/01/2020.

It is pertinent to mention here, EC in this case was earlier granted by MOEF vide no. J-11015/159/2010-IA. II (M) dated 28.06.2013. After perusal of the said Environmental Clearance it has been observed that an interstate boundary between Punjab & Himachal Pradesh lie within 10km radius of the mine lease area. However, MoEF vide notification no. S.O. 3977(E) dated 14.08.2018 has made amendment in the EIA Notification dated 14.09.2006 to the effect that the project/ activities related to mining of minerals (Non-Coal Mines) of area less than 100 hectare fall under Category-B projects, if General Conditions are not applicable. As per the said OM, the General Conditions are not applicable as the mining area is less than 25 ha and an interstate boundary falls within 10km of the site. Thus, on this account, the competency to decide the case lies with SEIAA, Punjab.

As per the said EC letter, No forest land is involved. Sugar nal Laran PF, Lodhwan PF, Agra Da Van RF, Bangal PF, Samun PF, Malkot Karar PF, Damtal RF, Nehar Kabir R.F., Indpur PF and Nagwal PF lie within 10Km Radius from mine lease boundary. Also, no National Park/ Wildlife Sanctuary fall within 10 km from the boundary of the mine lease. Mine working will be semi-mechanised. No drilling and blasting is to be carried out. Ultimate working depth will be upto 3 m from river bed level. Mining will be done in layers of 1 m depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.

The contractor has applied for obtaining extension in the validity of the said Environmental Clearance which was granted by the MoEF and later on transferred in the name of contractor. The contractor has submitted the requisite documents i.e. copy of previous EC, copy of Aks Sajra Map, Demarcation report dated 22.11.2019, e-Auction notice, Mining certificate issued by Mining Department, Pathankot, DSR, approved mining plan , undertaking regarding non-submission of the compliance report and Red Line

drawing. The project proponent has submitted Rs. 1,76,000/- vide NEFT PUBH20177987023 Dated 25.06.2020.

As per the MoEF, OM dated 14.09.2016, the validity of Environmental Clearance granted to the mining cases can be extended for a period of thirty years. The provisional acceptance letter has been issued by the Department of Mines and Geology, Punjab vide letter no. 1073 dated 22.07.2019, having validity for a period of three years i.e. upto 21.07.2022.

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i) Sh. Deepak Kumar, Authorized Signatory from the Promoter company.
- (ii) Sh. Arun Yadav, EIA Coordinator, M/s Overseac Mintech Consultant
- (iii) Sh. Jivan Yadav, FAE, M/s Overseac Mintech Consultant

SEAC was apprised that Project Proponent has submitted application for extension in the Validity before the expiry of Environmental Clearance granted to it.

MoEF&CC, Regional Office Chandigarh vide letter no. 518 dated 31.08.2020 in reference to the SEAC letter No. 1912 dated 18.08.2020 regarding seeking Certified Compliance Report for considering the applications for extension of validity of EC by SEAC, Punjab informed that as per various circulars issued by the MoEF&CC on 20/ 10/2009; 30/05/2012; & 07/09/2017, certified compliance report is required only in those cases where the project proponent has applied for Capacity Enhancement and concerned SEAC is also mandated to request the same while issuing ToRs. Accordingly, MoEF intimated that there does not seem any requirement to act on the request received from SEAC vide letter dated 18/08/2020 for certified compliance report. Necessary decision regarding extension of validity of EC may kindly be taken at the level of SEAC Punjab as deemed appropriate.

As such, in the case under reference, the applicant has applied for 'Extension of Validity of EC' with SEAC Punjab and not for 'Capacity Enhancement'. Hence, Certified Compliance report from the office of MoEF&CC, Regional Office, Chandigarh is not required.

Environment Consultant of the promoter company presented the salient features of the project. A copy of the presentation submitted Project Proponent was taken on record by the SEAC. To a query of SEAC regarding the cluster formation, Environment Consultant informed that no other mining sites fall within the radius of 500 m from the periphery of mining lease area. SEAC was satisfied with the presentation.

2.0 Recommendations

After detailed deliberations, the SEAC after going through the details of the project and keeping in view of the provisions of EIA notification, 14.09.2006, decided to recommend the case to SEIAA for issuing letter of extension in the validity of

environmental clearance upto 21.07.2022 or till the completion of mining activities, whichever is earlier with the following additional conditions:-

- 1) The project proponent shall monitor the bed levels of the river pre monsoon and post monsoon and submit the compliance report to the Mining Department.
- 2) The Mining Department shall allow the mining activities on the mining site after ensuring the compliance of the conditions of Environment Clearance granted to the project.

Item No194.13: Application for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of IT/ITES project namely "Infosys Campus" located at Plot no. I-3, Sector- 83 Alpha, IT City, SAS Nagar, Mohali, (Punjab) (SIA/PB/MIS/141329 /2020).

Facts of the case are as under: -

The project proponent has filed an application for obtaining Environment Clearance under EIA notification, 2006 for establishment of IT/ITES project namely "Infosys Campus" located at Plot no. I-3, Sector- 83 Alpha, IT City, SAS Nagar, Mohali. Project is covered under Activity 8(a) & Category 'B2' as per EIA notification-2006.

The project proponent submitted the Form I, 1A and other additional documents. They have also deposited the processing fee amounting to Rs. 1,41,328/- through NEFT (Fee has been submitted through with UTR/NEFT no.20010433122020 NEFT-013000514GN00001XXXXXX dated 03.01.2020).

The application was scrutinized & Essential Details were sought on dated 01.04.2020 and 25.06.2020, to which project proponent replied online.

The project proponent has already constructed one block namely Incubation Centre on the site. Accordingly EDS was raised to the project proponent mainly in light of this as why the project is not to be considered as a violation case. The project proponent vide letter dated 16.10.2020 has submitted that they had carried out construction of the said block only after taking approval from the GMADA and after getting the layout plan approved from GMADA vide letter no. 52032 dated 18.11.2016 and 819 dated 02.03.2017. Thus, the project proponent has carried construction envisaging the requirement of the project and after taking approvals from the competent authority in a planned manner.

Environmental Engineer, PPCB, RO, Mohali was requested vide email dated 09.10.2020 to send the construction status report. Accordingly, SEE, ZP(1), Patiala vide email dated 23.10.2020 has informed that the site of the subject cited project was visited by AEE of Regional Office on 22.10.2020 and the status is as under:-

- (i) The project is situated on Plot no. I-3, Sector -83 Alpha, IT city in district SAS Nagar. The project has total plot area of SO acres and boundary wall has been provided all around the project. Further, the project proponent has provided an existing building (software development block) having built up area of 1668.71 sqm in an area of about 2 acres.
- (ii) The promoter company has installed STP, DG set and chiller plants for the operation of existing buildings, for which it has obtained consent to operate under Water (Prevention & Control of Pollution) Act,1974 and Air (Prevention & Control of Pollution) Act, 1981 with is having validity up to 31.03.2021. The rest of the plot is vacant and no construction or development has been carried out. The photographs taken during visit are attached below. As per the boundary limits site shown by the representative of the promoter company during the visit, there is no MAH industry/cement plant/ grinding unit/ rice sheller/ saila plan/ stone crushing/ screening cum washing unit/ hot mix plant/ brick kiln within a radius of 500 m from the boundary of the proposed site of the project. Further, there are no specific guidelines laid down for such type of project and general guideline laid down Punjab Pollution Control Board applicable and the site is meeting with the general guidelines. As per the lease deed submitted by the company with GMADA, the said piece of land has been lease for the purpose of Information Technology enable services (ITES) supplementary and allied services in the Information Technology/Knowledge based sector.

SEAC perused the PPCB report and observed that there was building constructed by the promoter company having a built-up area of 1668.71 sqm. To a query of SEAC regarding why the case should not be considered as a violation case, Environment Consultant of the promoter company informed that the layout plan of the existing building has already been approved by the GMADA vide memo no. 8191 dated 02.03.2017 and consent to operate under the provisions of Water Act, 1974 & Air Act, 1981 has already been obtained from the PPCB. Further, it was informed that the EC for the existing project was not taken as the layout Plan was approved by GMADA for built up area less than 20,000 sqm which does not attract the provisions of EIA Notification, 14.09.2006. Now, the planning has been changed and the built-up area has been increased more than 20,000 sqm which attracts the provision of EIA Notification, 14.09.2006 and accordingly EC was applied.

SEAC allowed the Environment Consultant to present the salient features of the project. He presented the same as under:

Sr. No.	Description	Details
1.	Name & Location of the project	IT/ITES Project namely “Infosys Campus” at Plot no. I-3, Sector-83 Alpha, IT City, S.A.S. Nagar (Mohali), Punjab by M/s Infosys Limited.

2.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	The project falls under Schedule 8(a) – 'Building & Construction Project' Category B as the built-up area of project is 70,664 sq.m.															
3.	Co-ordinates of all the corners of the project site as per following:	<p>The corner co-ordinates of project are given below:</p> <table border="1"> <thead> <tr> <th>Corners</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>Corner-1</td> <td>30°38'12.74"N</td> <td>76°43'53.55" E</td> </tr> <tr> <td>Corner-2</td> <td>30°37'59.07"N</td> <td>76°44'4.20"E</td> </tr> <tr> <td>Corner-3</td> <td>30°37'53.30"N</td> <td>76°43'51.30" E</td> </tr> <tr> <td>Corner-4</td> <td>30°38'6.81"N</td> <td>76°43'53.55" E</td> </tr> </tbody> </table>	Corners	Latitude	Longitude	Corner-1	30°38'12.74"N	76°43'53.55" E	Corner-2	30°37'59.07"N	76°44'4.20"E	Corner-3	30°37'53.30"N	76°43'51.30" E	Corner-4	30°38'6.81"N	76°43'53.55" E
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4.	Copy of the Master plan duly marked with the project site	As per Master Plan of SAS Nagar, project falls under "Industry and Warehouse". Copy of Master plan of SAS Nagar showing the project location was attached along with application.															
5.	Copy of duly signed Layout plan	Conceptual layout plan was enclosed along with the application.															
6.	Pre-feasibility report as per Ministry of Environment & Forests, Circular dated 30.12.2010.	PFR is not applicable for 8(a) project. While, Conceptual plan mentioning all the details was enclosed with the application.															
7.	Proof of ownership of land mentioning Khasra no. & ownership details (Latest Jamabandi or Registry)	GMADA has allotted 50 acres of land for development of IT/ ITES Park on lease cum free hold sale basis; copy of allotment letter by GMADA was enclosed with the application.															
8.	Details as per CLU certificate like Khasra no., Project area (Existing & after expansion)	The site has been allotted to the project proponent by GMADA vide letter no. 4049 dated 17.02.2014.															
9.	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.	Copy of Memorandum & Article of Association as well as current list of directors of M/s Infosys Limited was attached along with the application.															
10.	Proposed ToRs (based on the standard ToRs)	Not Applicable as project falls under Schedule 8(a).															
11.	Does it attract the general condition? If yes, please specify	No															
12.	Whether the proposal involves approval/clearance under the Forest (Conservation) Act,1980	No. The project does not involve any forest land; NOC from Chief Conservator of Forests was attached along with the application.															

13.	Does the project cover under PLPA, 1900	No																																															
14.	If the project falls within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary. If yes, a. Name of eco-sensitive area/ National park/Wild Life Sanctuary and distance from the project site. b. Status of clearance from the National Board for Wild Life (NBWL).	No. a. The nearest bird sanctuary is City Bird Sanctuary, which is approx. 11 km from the Project location. Thus, there is no need of obtaining NBWL Clearance. b. Not applicable.																																															
15.	Classification/Land use pattern as per Master Plan	As per Master Plan of SAS Nagar, project falls under "Industry and Warehouse".																																															
16.	Cost of the project	The estimated project cost for proposed development is Rs. 356.79 Crores.																																															
17.	Processing Fee details (Amount/NEFT no./dated)	Processing fees for Environmental Clearance application has been calculated @ Rs. 2 / sq.m. of total built up area. Thus, Rs. 1,41,328/- has been paid vide UTR No. 20010433122020 dated 03.02.2020 through NEFT.																																															
18.	Breakup of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):																																																
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19.	Details of acknowledgement of application filed to CGWA/Competent Authority for obtaining permission for abstraction of ground water.	The source of water during operation phase will be from GMADA. Thus, there is no need of obtaining permission for borewells.																																															

20.	Specify block of project site as per CGWA norms (Notified /Non Notified)	The project falls under non-notified & over-exploited zone.																								
21.	Details of Wastewater generation, Treatment facility & its Disposal arrangements in Construction Phase	During Construction Phase, wastewater generation will be treated in already installed STP of 7 KLD capacity.																								
22.	Details of Wastewater generation, Treatment facility & its Disposal arrangements in Operation Phase and if wastewater being disposed in MC sewer then also mention the details of NOC from competent authority	<p>During Operation Phase, the wastewater generation will be 198 KLD which will be treated in proposed STP of 200 KLD capacity based on MBR technology. The details of the breakup of the utilization of treated wastewater is as under:-</p> <table border="1"> <thead> <tr> <th>Season</th> <th>Flushing (KLD)</th> <th>Green area (KLD)</th> <th>HVAC (KLD)</th> <th>GMADA Sewer (KLD)</th> </tr> </thead> <tbody> <tr> <td>Summer</td> <td>110</td> <td>84</td> <td>-</td> <td>-</td> </tr> <tr> <td>Winter</td> <td>110</td> <td>84</td> <td>-</td> <td>-</td> </tr> <tr> <td>Monsoon</td> <td>110</td> <td>26</td> <td>47</td> <td>11</td> </tr> </tbody> </table> <p>NOC has been obtained from GMADA for disposal of excess treated water.</p>					Season	Flushing (KLD)	Green area (KLD)	HVAC (KLD)	GMADA Sewer (KLD)	Summer	110	84	-	-	Winter	110	84	-	-	Monsoon	110	26	47	11
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23.	Details of Rainwater recharging/Harvesting (m ³ /hr) proposal & technology proposed to be adopted	Total 32 no. of Rain water recharging pits are being proposed for artificial rain water recharge within the project premises. Apart from this, one rain water harvesting tank of 365 m ³ and two retention ponds having total capacity of 9.67 million litres have been proposed.																								
24.	Details of Solid waste generation (Qty), treatment facility and its disposal arrangement	<p>a) 3,300 kg/day b) The solid waste shall be duly segregated into biodegradable, non-biodegradable and non-hazardous waste components as per MSW Rules, 2016. c) A separate area has been earmarked for segregation of solid waste. d) Biodegradable waste will be composted by use of organic waste converter. e) Non-biodegradable waste will be disposed through authorized recycler vendors.</p>																								
25.	Details of Hazardous Waste & E-Waste generation (Qty), Treatment facility	Used oil, DG filters, cotton waste, etc. from DG sets will be periodically sold to authorized vendors as per Hazardous Wastes (Management & Handling) Rules, 1989 and its amendments. E-waste generated from the project will be																								

	and its disposal arrangement	handled as per E-Waste (Management) Rules, 2016 & its amendments.															
26.	Detail of DG sets	Total 3 DG sets of capacity 1,500 kVA each (2 no. working and 1 no. for standby use) have been proposed overall for power back up. Also, 1 no. DG set of 160 kVA capacity have already been installed for standby use for emergency purposes.															
27.	Air pollution control device details	DG set is being provided with acoustic enclosure and run on HSD fuel.															
28.	Energy Requirements & Saving	<p>2,220 kVA from PSPCL; out of which, 166 kVA is being currently supplied by Punjab State Power Corporation Limited.</p> <p>Energy Saving measures:</p> <p>Solar panels have been proposed on the roof top of the proposed blocks. The total area covered by solar panels is 2,731 m² (which is 30% of proposed terrace area i.e. 9,097 m²) which will generate 224 KW of power generation.</p> <ul style="list-style-type: none"> • Roof top area of proposed building blocks = 9,097 m² • Space available for solar panel = 2,731 m² • Solar Power Generated = 224 KW • Cost approx. Rs. 80,000 per KW • Total Cost approx. = Rs. 1.79 Crores 															
29.	Details of Environmental Management Plan	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sr. No</th> <th style="width: 40%;">Environmental Protection Measures</th> <th style="width: 15%;">Capital Cost Rs. Lakh</th> <th style="width: 15%;">Recurring Cost Rs. Lakh</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Construction</td> <td style="text-align: center;">451</td> <td style="text-align: center;">8.6</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Operation</td> <td style="text-align: center;">-</td> <td style="text-align: center;">18</td> </tr> </tbody> </table>				Sr. No	Environmental Protection Measures	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh	1.	Construction	451	8.6	2.	Operation	-	18
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2.	Operation	-	18														
30.	a. Details of Corporate Environmental Responsibility (CER) indicating various activities to be undertaken as per the provision of OM dated 01.05.2018	(a) Mr. Puneet Singh Randhawa (Regional Manager-Facilities) of M/s Infosys Limited proposes to spend 0.75% of proposed project cost (as per Office Memorandum of CER dated 01.05.2018) under CER activities i.e. 0.75% of Rs. 356.79 Crores which comes out to be Rs. 2.67 Crores. Thus, Rs. 2.8 Crores will be spent under CER in 7 years of time. The activities proposed under CER is given below in Table.															
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	b. Details of NOC from the village Sarpanch, Certificate from the School Principal & concerned Govt. Departments etc.	1.	Adoption of Village Manauli • Constructing Public Health services i.e. water supply network, trunk sewer, street light, solid waste management and its maintenance, etc.	20	7 Years	1.4 Cr.
		2.	Health checkup camps, provision of medicines and blood donation camps.	10	7 Years	70 lakhs
		3.	Renovation of Govt. Smart Senior Secondary School, Manauli and premises of facilities as per requirement.	10	7 Years	70 lakhs
			Total amount to be spent on CER	40 lakhs		Rs. 2.80 crores
		(b) NOC will be obtained from Sarpanch & School and will be submitted.				
31.	Details of green belt development shall include following:	a) No. of trees reqd. = 1 tree per 80 sq.m. of plot area left after expansion = $1,41,733 / 80 = 1,771.6$ trees				

<p>a) No. of tree to be planted against the requisite norms.</p> <p>b) Percentage of the area to be developed.</p>	<p>No. of trees proposed = 1,772 Trees; out of which, 226 trees/ plants have been presently planted.</p> <p>b)Green Area proposed = 51,500 sq.m (@ 25.45% of the plot area)</p>
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To a query of SEAC regarding CER activities, project proponent submitted the revised CER as under:-

S.No.	Activities	Timeline (Start time from grant of EC)	Total Expenditure in 2 Years (in Rs. Lakhs)
1.	Adoption of Village Manauli <ul style="list-style-type: none"> • Constructing Public Health services i.e. water supply network, trunk sewer, street light, solid waste management and its maintenance etc. 	2 Years	140
2.	Health checkup camps, provision of medicines and blood donation camps.	2 Years	70
3.	Provision of solar panels in Govt. Smart Senior Secondary School, Manauli and premises of facilities as per requirement.	2 Years	70
Total amount to be spent on CER			Rs. 280 Lakhs

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.

1.0 Recommendations

After detailed deliberations, SEAC decided to award 'Silver Grading' to the project proposal and to forward the application of the project proponent to SEIAA with the recommendations to grant Environmental Clearance for the establishment of IT/ITES project namely "Infosys Campus" having built-up area 70,664 sqm (after Expansion) in a total land area 2,02,343 sqm (50 acres) located at Plot no. I-3, Sector- 83 Alpha, IT City, SAS Nagar, Mohali, (Punjab), as per the details mentioned in the Form 1, 1A, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with, proposed measures and subject to the following conditions:-

Statutory compliance:

- i) The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment, etc. as per National Building Code including protection measures from lightning, etc.
- iii) The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v) The project proponent shall obtain Consent to Establish / Operate under the provisions of the Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board / Committee.
- vi) The project proponent shall obtain the necessary permission for drawl of ground water/ surface water required for the project from the competent authority.
- vii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix) The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules, 2016 and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x) The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi) The project site shall confirm to the suitability as prescribed under the provisions laid down under the master plan of respective city/ town. For that, the project proponent shall either to submit the NOC/ land use conformity certificate from Deptt. of Town and Country Planning or other concerned Authority under whom jurisdiction, the site falls.
- xii) Besides above, the project proponent shall also comply with siting criteria / guidelines, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of projects.

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

II. Air quality monitoring and preservation

- i) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii) A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii) The project proponent shall install system to carryout Ambient Air Quality monitoring for common /criterion parameters relevant-to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.
- iv) Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v) Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3m height or 1/3rd of the building height and maximum upto 10m). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi) No Excavation of soil shall be carried out without adequate dust mitigation measures in place.
- vii) No loose soil or sand or construction & demolition waste or any other construction material that causes dust shall be left uncovered.
- viii) No uncovered vehicles carrying construction material and waste shall be permitted
- ix) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- x) Grinding and Cutting of building material in open area shall be prohibited. Wet jet shall be provided for grinding and stone cutting.

- xi) Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- xii) All construction and demolition debris shall be stored at the site within earmarked area and road side storage of construction material and waste shall be prohibited. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- xiii) The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xiv) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xv) For indoor air quality the ventilation provisions as per National Building Code of India.
- xvi) Roads leading to or at construction site must be paved and blacktopped (i.e. metallic road)
- xvii) Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.
- xviii) Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measure be notified at the site.

III. Water quality monitoring and preservation

- i) The natural drain system should be maintained for ensuring unrestricted flow of water.
- ii) No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- iii) Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iv) The total water requirement for the project will be 542 KL/day, out of which fresh water demand is 384 KL /day shall be met through GMADA supply and remaining through recycling of treated waste water from the STP of the project. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- v) a)The total wastewater generation from the project will be 198 KL/day, which will be treated in STP of capacity of 200 KL/day to be installed within the project site. As proposed, reuse of treated wastewater obtained from STP shall be as under:-

Sr. No.	Season	For Flushing purposes (KLD)	Green Area (KLD) in an area of 51,500 sqm
1.	Summer	110	84
2.	Winter	110	84
3.	Rainy	110	26

- b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes.
- c) During construction phase, the project proponent shall ensure that the waste water being generated from the labour quarters/toilets shall be treated and disposed in environment friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately design septic tanks for the treatment of such waste water and treated effluents shall be utilized for green area/plantation
- vi) The project proponent shall ensure safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided, if required.
- vii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- viii) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- ix) At least 20% of the open spaces as required by the local building bye-Laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- x) Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- xi) The respective project proponent shall discourage the installation of R.O. plants in their projects in order to save the wastage in form of RO reject. However, in case the requirement of installing RO plant is utmost necessary then the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component i.e. (Tower/Mall) or in a common place in the project premises.
- xii) The project proponent shall also adopt the new/innovating technologies like less water discharging taps (faucet with aerators)/urinals with electronic sensor

system /water less urinals / twin flush cisterns/ sensor based alarming system for overhead water storage tanks and make it a part of the environmental management plans / building plans so as to reduce the water consumption/ground water abstraction in their Building Construction & Industrial projects.

- xiii) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/ HVAC/ other purposes etc. and colour coding of different pipe lines carrying water/wastewater from different sources / treated wastewater as follows:

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

- xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xv) The CGWA provisions on rain water harvesting should be followed. As per the proposal submitted by the project proponent 32 no. rain water recharging pits, one recharging tanks having capacity 365 m³ and two retention ponds having total capacity of 9.6 million litres tank shall be provided for ground water recharging as per the CGWB norms. The ground water shall not be withdrawn without approval from the Competent Authority.
- xvi) All recharge should be limited to shallow aquifer.
- xvii) No ground water shall be used during construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and available at site.
- xviii) Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter.

Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.

- xix) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- xx) Sewage shall be treated in the STP with tertiary treatment. STP shall be installed in a phased manner viz a viz in the module system designed in such a way so as to efficiently treat the wastewater with an increase in its quantity due to rise in occupancy. The treated effluent from STP shall be recycled/reused for flushing, AC make up water and gardening. No treated water shall be disposed of into the municipal storm water drain.
- xxi) No sewage or untreated effluent water would be discharged through storm water drains. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on-site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by the Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xxii) Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxiii) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

- i) Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- ii) Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii) Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

- i) Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii) Outdoor and common area lighting shall be LED.
- iii) Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased. day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv) Energy conservation measures like installation of LEDs for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v) Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1 % of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi) Solar power by utilizing at least 30% of the roof top area shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

- i) A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii) Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iii) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv) Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed for treatment and disposal of the waste.
- v) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

- vi) Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii) Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
- ix) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- x) Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

- i) No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
- ii) At least single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. A minimum of one tree for every 80 sqm of total project land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. The plantation should be provided as per SEIAA guidelines.
- iii) Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1: 10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- iv) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be

stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

- v) The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.
- vi) The green belt along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use.

VIII. Transport

- i) A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b) Traffic calming measures.
 - c) Proper design of entry and exit points.
 - d) Parking norms as per local regulation.
- ii) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii) A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- iv) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.

IX. Human health issues

- i) All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii) For indoor air quality the ventilation provisions as per National Building Code of India.
- iii) Emergency preparedness plan based on the Hazard identification and Risk Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv) Occupational health surveillance of the workers shall be done on a regular basis.
- v) A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility

- i) The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least a minimum amount of Rs. 2.8 Cr.towards the following CER activities. The details are given below: -

S.No.	Activities	Timeline (Start time from grant of EC)	Total Expenditure in 2 Years (in Rs. Lakhs)
1.	Adoption of Village Manauli <ul style="list-style-type: none"> • Constructing Public Health services i.e. water supply network, trunk sewer, street light, solid waste management and its maintenance etc. 	2 Years	140
2.	Health checkup camps, provision of medicines and blood donation camps.	2 Years	70
3.	Provision of solar panels in Govt. Smart Senior Secondary School, Manauli and premises of facilities as per requirement.	2 Years	70
Total amount to be spent on CER			Rs. 280 Lakhs

- ii) The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv) Action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year-wise funds earmarked for environmental protection measures shall be kept in separate accounts and not to be diverted for any other purpose. The project proponent shall spend the minimum amount of Rs 451 Lacs towards the capital cost and Rs 8.6 Lacs/annum towards recurring cost in the construction phase of the project including the environmental monitoring cost and shall spend the minimum amount of Rs 18.00 lacs/year towards recurring cost in operation phase of the project including the environmental monitoring cost. The entire cost of the environmental management plan will continue to be borne by the project proponent until the responsibility of the environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year-wise progress of implementation of the action plan shall be reported to the Ministry/Regional Office along with the Six-monthly Compliance Report.

XI. Validity

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

XII. Miscellaneous

- i) The project proponent before allowing any occupancy shall obtain completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab.
- ii) The project proponent shall comply with the conditions of CLU.
- iii) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.

- iv) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- v) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- vi) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at Environment Clearance portal.
- vii) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- viii) The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- xi) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xii) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiii) The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv) The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xv) The Regional Office of this Ministry and Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.

- xvi) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvii) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Additional Conditions:

- i) The project proponent shall not use fresh water for gardening/horticulture purpose once the same is available from GMADA.
- ii) The wastewater generated from water bodies shall not be discharged and the same shall be reused within the premises for purposes such as horticulture, HVAC, etc.

Item No 194.14: Application for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of 600 KLD common Effluent Treatment Plant (CETP) to be established on Zero Liquid (ZLD) located at PSIEC Industrial Focal Point, Chanalon (Kurali), Distt SAS Nagar (Mohali) Punjab by M/s Bansal EnviroTech Pvt. Ltd. (SIA/PB/MIS/50730/2020).

The project proponent has filed an application for obtaining Environment Clearance under EIA notification, 2006 for establishment of 600 KLD common Effluent Treatment Plant (CETP) to be established on Zero Liquid (ZLD) located at PSIEC Industrial Focal Point, Chanalon (Kurali), Distt SAS Nagar (Mohali) Punjab. The project is covered under Activity 7(h) & Category 'B2' as per EIA notification-2006.

The project proponent submitted the Form I, 1A and other additional documents. They have also deposited the processing fee amounting to Rs. 45000/- dated 28.08.2020.

The project was issue TOR vide letter no. SEIAA/2020/1743 dated 29.07.2020. Now the project proponent has submitted EIA report which is placed before the committee.

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i) Sh. Siddharth Ishnoor from the promoter company.
- (ii) Sh. Himanshu Ahuja from the promoter company.
- (iii) Dr. Sandeep Garg, Environmental Consultant from M/s Eco laboratories & Consultant Pvt. Ltd.

SEAC was apprised environmental consultant of the promoter company has submitted EIA report prepared on the basis of TOR issued to them by SEIAA, Punjab. Environmental Consultant presented the salient features of the proposal as under:

Sr. No.	Name of the project: Correspondence address :	600 KLD Common Effluent Treatment Plant (CETP) on ZLD basis by M/s Bansal EnviroTech Pvt. Ltd. Plot No. 57, Phase I, Industrial Area, Chandigarh
1.	Online Proposal No.	SIA/PB/MIS/50730/2020
2.	Nature of project (EC for new project/EC for Expansion/ EC for existing & proposed project)	New
3.	a) Category b) Activity (As per schedule appended to EIA Notification, 2006 as amended time to time)	a) Category B Project. b) Schedule 7(h), Sl. No. 7 namely Physical Infrastructure including Environmental Services + CRZ and classified under "Common Effluent Treatment Plants"
4.	a. Whether the project falls in the critical	a) The project is located at PSIEC Industrial Focal Point, Chanalon (Kurali), Distt. SAS Nagar

	<p>polluted area notified by MoEF&CC/CPCB. (Yes/No)</p> <p>b. If no and the proposed project site lies in the same or neighbouring district of critically polluted area, then details the distance of project site from the boundary of critically polluted area verified by the regional office of SPCB. (Submitted/Not submitted)</p>	<p>(Mohali), Punjab which does not fall under any critically polluted area or not notified by MoEF&CC.</p> <p>b) Neighbouring district are Rupnagar and Fatehgarh Sahib. While nearest critically polluted area notified by MoEF&CC is Mandi Gobindgarh which is located at a distance of 32 km from the project location</p>																		
5.	<p>a. Total Project Cost (In Crores):</p> <p>b. Total project cost breakup at current price level duly certified by Chartered Engineer/ Approved valuer or Chartered Accountant</p>	<p>a. Rs. 6 Crores</p> <p>b. Total project cost breakup is given below:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Description</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Civil Structures with landscaping, roads and pathways</td> <td>Rs. 1.5 Crores</td> </tr> <tr> <td>2</td> <td>ETP Equipment's with UF/RO Plant</td> <td>Rs. 2.5 Crores</td> </tr> <tr> <td>3</td> <td>Evaporator system</td> <td>Rs. 2 Crores</td> </tr> <tr> <td colspan="2">Total cost of project</td> <td>Rs. 6 Crores</td> </tr> </tbody> </table> <p>CA certificate submitted along with application.</p>				Sr. No.	Description	Total Cost	1	Civil Structures with landscaping, roads and pathways	Rs. 1.5 Crores	2	ETP Equipment's with UF/RO Plant	Rs. 2.5 Crores	3	Evaporator system	Rs. 2 Crores	Total cost of project		Rs. 6 Crores
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Total cost of project		Rs. 6 Crores																		
6.	<p>Amount of EC Processing Fee deposited by NEFT/DD (Rs. In Lacs)</p>	<p>a. TOR Processing fees i.e. Rs. 15,000/- has been submitted through NEFT vide UTR No. NO29201047740090 dated 29.01.2020 during TOR application</p> <p>b. Remaining 75% EC fees i.e. Rs. 45,000 has been submitted vide Cheque No. 000056 dated 28.08.2020.</p>																		
7.	<p>Details of technology proposed for control of emissions & effluents generated from project</p>	<table border="1"> <thead> <tr> <th>Sr No</th> <th>Details of proposed APCD/STP/ETP/ZLD/ Continuous online monitoring system</th> <th>Technology to be adopted by new unit</th> <th>Capacity of proposed technology</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CETP</td> <td>Physio-chemical treatment followed by UF-RO</td> <td>500 KLD (300 KLD each in 2 phases)</td> </tr> </tbody> </table>	Sr No	Details of proposed APCD/STP/ETP/ZLD/ Continuous online monitoring system	Technology to be adopted by new unit	Capacity of proposed technology	1	CETP	Physio-chemical treatment followed by UF-RO	500 KLD (300 KLD each in 2 phases)										
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1	CETP	Physio-chemical treatment followed by UF-RO	500 KLD (300 KLD each in 2 phases)																	

		2	ZLD Technology	MEE	20 KLD 60 KLD each in 2 phases)
		3	Continuous online emission/effluent monitoring system	-	
		4	Any other	-	
		Total			
8.	Co-ordinates of all the corners of the project site	Point	Latitude	Longitude	
		A	30.812952°N	76.579903°E	
		B	30.813358°N	76.579896°E	
		C	30.813309°N	76.580901°E	
		D	30.812952°N	76.580904°E	
9.	Plot Area Details	The total area of the project is approx. 1.00 acre (or 4,052.60).			
		Sr. No.	Land use details	Area (in m ²)	% w.r.t. total area
		1.	Chemical storage area	50	1.2
		2.	Fuel storage area	37.52	0.92
		3.	DG set area	45	1.11
		4.	Parking Area for tankers	321.46	7.93
		5.	Parking area for car	72.1	1.77
		6.	Hazardous sludge room	51	1.25
		7.	Green area	1382.39	34.11
		8.	ETP-UF-RO and Evaporator complete with all allied works	2093.13	51.64
		Total Area		4,052.60 sq.m. (or 1 acre)	100
10.	a. Type of project land as per master plan (Industrial/Agriculture/ Any other),	a. The project is designated as disposal works in PSIEC Industrial Focal Point, Chanalón.			

	b. If non industrial land then the details of Land Use Certificate / permissibility Certificate from Competent Authority (DTP/CTP) intimating land use pattern of the project site as per proposals of Master Plan of the area. (Submitted/Not Submitted)	b.Not Applicable
11.	Details 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	Not applicable.
12.	Details of valid consent to operate under Air & Water Act	No as the project is yet to be developed.
13.	Details of verified compliance report from SPCB to the conditions of existing consent to operate under Air act, 1981 & Water Act,1974 (Letter no. & dated from SPCB)	Not applicable
14.	ToR compliance report (Submitted/ not submitted)	TOR Compliance report has been submitted along with the EIA Report.
15.	Compliance report of public hearing proceedings (Action Taken) submitted or not submitted	Not Applicable. Public Hearing is exempted as clarified, by the Ministry of Environment, Forest and Climate Change (hereinafter referred to as 'MoEF&CC') vide Office Memorandum No. J-11013/36/2014-IA-I dated 10.12.2014, with reference to the provision under para 7 (i) III. Stage(3)(i)(b) of EIA notification, 2006 wherein projects or activities or units located within the Industrial Estates or Parks, which were notified prior to the EIA notification, 2006 dated 14.09.2006. The PSIEC Industrial Focal Point Chanalon, Punjab has been established in the year 1992 as evidenced by the Award and Notification of the said Industrial Focal Point issued by Punjab Govt.

16.	<p>a. Whether any litigation pending against the project or any direction/order passed by SPCB/ Court of Law against the project, if so, details there of shall also be included.</p> <p>b. 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.</p>	<p>No litigation is pending against the project or any direction/order passed by SPCB/ Court of Law against the project.</p> <p>Not Applicable</p>				
17.	Raw material details:	Sr. No.	Name of Raw Materials	Quantity (kg/ Day)		
		1.	Acid/ Alkali for Equalization Tank	100		
		2.	Lime/ Caustic	200		
		3.	Alum/ PAC	150		
		4.	Poly	5		
		5.	SMBS	10		
		6.	Antiscalent	10		
		7.	Hypochloride for Membrane Cleaning	10		
		8.	Hydro Chloric Acid for Membrane Cleaning	15		
		9.	RO cleaning Chemicals	5		
18.	Production Capacity details:	600 KLD Common Effluent Treatment Plant (300 KLD each in 2 phases).				
19.	Details of major productive machinery/ plant:	Sr. No.	Equipment's Machinery	Capacity		
		1.	CETP followed by UF-RO	2 Phases of 300 KLD capacity each.		
		2.	MEE	120 KLD		
20.	Manpower requirement (After expansion)	Total Manpower for the proposed project will be 45 persons. Out of which, 5 persons will be residing within the project and remaining will be floating, including drivers.				
21.	Details of Emissions (After expansion)	Sr. No.	Source	Capacity	Chimney Height	Air Pollution

				(m)	Control Device	
		i)	Proposed 1 No. D.G Set	200 KVA	3	Adequate Stack Height
		ii)	1 No. Boiler	5 Ton	15 m	Wet Scrubber
22.	Hazardous/Non-Hazardous Waste Generation details & their storage, utilization and its disposal. Copy of Agreement clearly mentioning the Quantity	Details	Unit	Hazardous Waste Category	Quantity	Disposal method
		Used Oil	litre/annum	5.1	100	Sold to approved recyclers
		ETP Sludge	Kg/day	35.3	3,000	Handed over to Nimbua Greenfield (Punjab) Pvt. Ltd. Hazardous Waste Management Facility
23.	Solid Waste generation and its mode of disposal:	Minimal quantities of MSW will be generated from the project during construction and operation (approx. 8 kg/day) which will be segregated and managed as per the Solid Waste Management Rules, 2016. Solid waste will be disposed off to designated site of PSIEC.				
24.	Waste water generation & its disposal Arrangement in Operation Phase:	Details	Quantity	Disposal method		
		Industrial Effluent	Approx. 370 KLD	It will be given to the industries of Focal Point, Chanalon and to the green area within PSIEC.		
		Domestic effluent	Approx. 2 KLD	It be treated in already installed STP of PSIEC in Industrial Focal Point, Chanalon.		
25.	Details of the block in which the project site is located as per CGWA guideline (Notified/ Non-Notified area and name of block)	The project falls under Kharar block of SAS Nagar in non-notified area. But, domestic water supply will be provided by PSIEC water works.				

26.	Breakup of Water Requirements & its source in Operation Phase:	Sr. No.	Description	Water demand (KLD)	
		1.	Domestic water demand	2.5 KLD	
		2.	Make up water demand for cooling purpose	-	
		3.	Green area water demand	7 KLD	
		Total			9.5 KLD
Sources of water:					
		Sr.No.	Purposes	Source of water	
		1.	Domestic	PSIEC water works	
		2.	Make-up water demand for cooling	-	
		3.	Green area water demand	Treated wastewater	
27.	Water balance chart for Summer, Rainy and Winter seasons (Submitted/Not Submitted)	Water balance has been submitted along with EIA report			
28.	Rain Water utilization proposal during monsoons (Submitted/Not Submitted)	1 rain water harvesting tank will be constructed within the project premises for storing roof top runoff from the administration office.			
29.	Rain Water Harvesting proposal (within/outside premises) alongwith NOC from concerned village sarpanch (Submitted/Not Submitted)	1 rain water harvesting tank will be constructed within the project premises for storing roof top runoff from the administration office.			
30.	Block wise details of no. of trees to be planted in proposed greenbelt area (1500 Trees to be planted @ 10000 Sqm area):	Sr.no.	Description	Area (m ²)	No. of plants to be planted
		1.	Green Area- A	839.70	376
		2.	Green Area- B	205.34	92
		3.	Green Area- C	86	39
		4.	Green Area- D	211.80	95
		5.	Green Area- E	39.55	18

		Total	1382.39	620	
		620 Nos. of trees are proposed for the project			
31.	a. Energy requirements & savings:	a. The details of the energy are given below:			
		Sr. No.	Description	Unit	Capacity
		1.	Power load	KW	150
		2.	1 D.G set	KVA	200
	b. Energy measures to be adopted within industry:	b. Various measures will be provided for energy conservation like energy efficient pumps and motors, flame proof cables, IE3 motor. LED bulbs and solar lights will also be provided.			
32.	a. EMP Budget details	a. EMP budget details:			
		Sr. No	Environmental protection measures	Capital cost (Rs. in lakhs)	Recurring cost (Rs. in lakhs/ year)
		1.	Waste water management: CETP & its allied	473.5	5.0
		2.	Air & noise pollution management (Acoustics)	15.0	1.0
		3.	Landscaping	1.5	1.0
		4.	Rain Water	1.5	0.5
		5.	Environment Monitoring Cost	2.0	2.0
		6.	Waste Management (Hazardous)	1.5	0.5
		7.	Miscellaneous	5.0	2.0
		Total		Rs. 500 Lakhs	Rs. 12 Lakhs
		Sr. No.	Environmental protection measures	Recurring cost (Rs. in lakhs/ year)	
		1.	Waste water management: CETP &	60	
		2.	Air & noise pollution management (Acoustics enclosure for DG set &	3	

		<table border="1"> <tr> <td>3.</td> <td>Landscaping</td> <td>1.5</td> </tr> <tr> <td>4.</td> <td>Rain Water Harvesting</td> <td>0.5</td> </tr> <tr> <td>5.</td> <td>Environment</td> <td>2.5</td> </tr> <tr> <td>6.</td> <td>Waste Management (Hazardous waste and)</td> <td>6</td> </tr> <tr> <td>7.</td> <td>Miscellaneous</td> <td>2</td> </tr> <tr> <td colspan="2">Total</td> <td>Rs. 75.5 lakhs</td> </tr> </table>	3.	Landscaping	1.5	4.	Rain Water Harvesting	0.5	5.	Environment	2.5	6.	Waste Management (Hazardous waste and)	6	7.	Miscellaneous	2	Total		Rs. 75.5 lakhs
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4.	Rain Water Harvesting	0.5																		
5.	Environment	2.5																		
6.	Waste Management (Hazardous waste and)	6																		
7.	Miscellaneous	2																		
Total		Rs. 75.5 lakhs																		
	b. Details of Environment Management Cell (EMC) responsible for implementation of EMP	b. Environment Management Committee comprising of Director, Manager & Technicians will be constituted.																		
33.	<p>Details of the activities proposed to be covered under CER be provided in below format:</p> <table border="1"> <thead> <tr> <th rowspan="2">Activities</th> <th rowspan="2">Environment Aspect</th> <th rowspan="2">Cost (Rs. Lacs)</th> <th colspan="2">Timeline</th> </tr> <tr> <th>Start Date</th> <th>End date</th> </tr> </thead> <tbody> <tr> <td>Adoption of Govt. High School, Village Singhpura, to improve its education quality and infrastructure by providing: a) library, furniture, computer, books (Rs. 4 Lakhs) b) Washroom construction (Rs. 2 Lakhs) c) Badminton court construction (Rs. 3 Lakhs) d) Boundary wall repair & painting (Rs. 2 Lakhs) e) Providing water coolers for drinking water (Rs. 1 Lakh)</td> <td>Infrastructure</td> <td>12 Lakhs</td> <td>After grant of EC</td> <td>2 years</td> </tr> <tr> <td colspan="2">Total</td> <td>12 lakhs</td> <td></td> <td></td> </tr> </tbody> </table> <p>Mr. Siddharth Bansal (Director) of Bansal EnviroTech Pvt. Ltd. will be responsible for implementation of CER (Corporate Environment Responsibility). The cost of proposed project is Rs. 6 Crores. Thus, Rs. 12 lakhs (@ 2% of Investment cost) is required for C.E.R activities as per Office Memorandum vide F.No. 22-65/2017-IA.III dated 01.05.2018.</p>		Activities	Environment Aspect	Cost (Rs. Lacs)	Timeline		Start Date	End date	Adoption of Govt. High School, Village Singhpura, to improve its education quality and infrastructure by providing: a) library, furniture, computer, books (Rs. 4 Lakhs) b) Washroom construction (Rs. 2 Lakhs) c) Badminton court construction (Rs. 3 Lakhs) d) Boundary wall repair & painting (Rs. 2 Lakhs) e) Providing water coolers for drinking water (Rs. 1 Lakh)	Infrastructure	12 Lakhs	After grant of EC	2 years	Total		12 lakhs			
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Total		12 lakhs																		
34.	Project area involves forest land, (Yes/No),	No forest land is involved in the project.																		

	If yes, then details of the the extent of area involved and copy of permission & approval for the use of forest land				
35.	Traffic Study Details: <u>Existing Traffic Scenario & LOS at a location</u>				
	Locations	V (Volume in PCU/day)	C (Capacity in PCU/day)	Existing V/C ratio	LOS
	location A on Kurali Bypass road	6760 6757 6668	6728 86,400	0.07	A
	<u>Modified Traffic Scenario & LOS at different locations (after full development)</u>				
	Location	V (Volume in PCU/day)	C (Capacity in PCU/ day)*	Existing V/C ratio	LOS
	location A on Kurali Bypass road	6728 + 1682* + 86 = 8496	86,400	0.09	A

To a query of SEAC regarding disposal of treated effluent, Environmental Consultant of the promoter company informed that treated effluent will be re-used for the industries located in Focal Point and for watering the parks. Further, it was informed that the work for laying of pipes for reusing the tertiary treated water of STPs is under progress and the treated effluent of CETP is to be connected in the said pipeline for reusing the same for greening of parks etc. The revised water balance submitted by Project proponent was taken on record by the SEAC.

2.0 Recommendations

After detailed deliberations, SEAC decided to award '**Silver Grading**' to the project project covered under Activity 7(h) & Category 'B2' as per EIA notification-2006 and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for establishment of 600 KLD common Effluent Treatment Plant (CETP) to be established on Zero Liquid (ZLD) submitted by "M/s Bansal EnviroTech Pvt. Ltd" located at PSIEC Industrial Focal Point, Chanalon (Kurali),, 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 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.
- 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. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- x. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

II. Air quality monitoring and preservation

- i. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Diesel generating sets shall be installed, in the downwind directions.
- ii. Appropriate Air Pollution Control (APC) system shall be provided for fugitive dust from all vulnerable sources, so as to comply prescribed standards.
- iii. The project proponent shall provide covered sheds for raw materials.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules I 986 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. Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
- iii. There shall be flow meters at inlet and outlet of CETP to monitor the flow. Suitable meters shall be provided to measure the quantity of effluent received, quantity of effluent recycled/reused and discharged.
- iv. The units and the CETP will maintain daily log book of the quantity and quality of discharge from the units, quantity of inflow into the CETP, details of the treatment at each stage of the CETP including the raw materials used, quantity of the treated water proposed to be recycled, reused within the Industrial park/units, quantity of the treated effluent discharged. All the above information shall be provided on- line of the web site exclusively prepared for the purpose by the CETP owner. The website shall be accessible by the public. The financial and energy details of the CETP will also be provided along with details of the workers of the CETP.
- v. The CETP operator will maintain an annual register of member units which will contain the details of products with installed capacities and quality and quantity of effluents accepted for discharge. This will form a part of the initial and renewal applications for consent to operate to be made before the State Pollution Control Board.
- vi. No changes in installed capacity, quality or quantity of effluents as agreed upon in the initial MOU between the operator and the member units, addition of any new member units shall be carried without prior approval of the ministry.
- vii. The Unit shall inform the State Pollution Control Board at least a week prior to undertaking maintenance activities in the recycle system and store/dispose treated effluents under their advice in the matter.

- viii. The unit shall also immediately inform the Pollution Control Board of any breakdown in the recycling system, store the effluents in the interim period and dispose effluents only as advised by the Pollution Control Board.
- ix. The MoU between CETP and member units shall indicate the maximum quantity of effluent to be sent to the CETP along with the quality.
- x. The unit shall maintain a robust system of conveyance for primary treated effluents from the member units and constantly monitor the influent quality to the CETP. The Management of the CETP and the individual member shall be jointly and severally responsible for conveyance and pre-treatment of effluents. Only those units will be authorized to send their effluents to the CETP which have a valid consent of the Pollution Control Board and which meet the primary treated standards as prescribed. The CETP operator shall with the consent of the State Pollution Control Board retain the powers to delink the defaulter unit from entering the conveyance system.
- xi. The effluent from member units shall be transported through pipeline. In case the effluent is transported thorough road, it shall be transported through CETP tankers only duly maintaining proper manifest system. The vehicles shall be fitted with proper GPS system.
- xii. Before accepting any effluent from member units, the same shall be as permitted by the SPCB in the consent order. No effluent from any unit shall be accepted without consent from SPCB under the Water Act, 1974 as amended.
- xiii. Treated water shall be disposed on land for irrigation. An irrigation management plan shall be drawn up in consultation with and to the satisfaction of the State Pollution Control Board.
- xiv. The Project proponents will build operate and maintain the collection and conveyance system to transport effluents from the industrial units in consultation with and to the satisfaction of the State Pollution Control Board and ensure that the industrial units meet the primary effluent standards prescribed by the State Pollution Control Board.
- xv. The State Pollution Control Board will also evaluate the treatment efficiency of the Effluent Treatment Plant (ETP) and its capability of meeting the prescribed standards. The final scheme of treatment would be such as is approved by the Pollution Control Board in the Consent to Establish.
- xvi. The project proponents will create an institutional arrangement for the involvement of individual members in the management of the CETP.

III. Noise monitoring and prevention

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

- ii. Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

IV. Energy Conservation measures

- i. 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.
- ii. The project proponent shall provide the for LED lights in their offices.

V. Waste management

- i. ETP sludge generated from CETP facility shall be handled and disposed to nearby authorized TSDF site as per Hazardous and Other Waste Management Rules, 2016.
- ii. Non Hazardous solid wastes and sludge arising out of the operation of the CETP shall be adequately disposed as per the Consent to be availed from the State Pollution Control Board. Non Hazardous solid wastes and sludge shall not be mixed with Hazardous wastes.
- iii. The CETP shall have adequate power back up facility, to meet the energy requirement in case of power failure from the grid.
- iv. The site for aerobic composting shall be selected and developed in consultation with and to the satisfaction of the State Pollution Control Board. Odour and insect nuisance shall be adequately controlled.
- v. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- vi. The solid wastes shall be segregated, managed and disposed as per the norms of the Solid Waste Management Rules, 2016.

VI. Green Belt

- i. Green belt shall be developed in an area 1383 sqm (33 %) of the plant area with tree species in accordance with SEIAA guidelines. Total 620 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.

VII. 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 provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- v. The project proponent shall carry out the activities apart from CER activities and spent an amount as commuted during the public hearing as per the public hearing action plan.

VIII. 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. 12 Lacs towards following CER activities:

Sr. No.	Activities	Environment Aspect	Cost (Rs. Lacs)	Timeline	
				Start Date	End date
1.	Adoption of Govt. High School, Village Singhpura, to improve its education quality and infrastructure by providing: a) library, furniture, computer, books (Rs. 4 Lakhs) b) Washroom construction (Rs. 2 Lakhs) c) Badminton court construction (Rs. 3 Lakhs) d) Boundary wall repair & painting (Rs. 2 Lakhs) e) Providing water coolers for drinking water (Rs. 1 Lakh)	Infrastructure	12 Lakhs	After grant of EC	2 years
	Total		12 lakhs		

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 500 Lacs towards the capital cost and Rs 12 Lacs/annum towards recurring cost including the Environmental monitoring cost during the construction phase and Rs. 75.5 lacs per annum towards recurring cost including the monitoring cost during the operation phase for the implementation of EMP as proposed in the EMP plan. 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.

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 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.
- v. 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.
- vi. The criteria pollutant levels or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- 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.

Additional Conditions:-

1. The project proponent will not provide rain water harvesting within the project premises.
2. The project proponent shall track the transporting vehicle used for the treated waste water with the GPS technology.
3. The Project proponent shall install the online continuous monitoring system at the inlet/ outlet of the industry.
4. The project proponent shall impose a condition in the agreement made with the member industry that industry shall install a sensor system in the untreated water collection tank connect the same with the online system for displaying the water level of the tank.

Item No 194.15: Application for amendment in Environmental Clearance granted under EIA notification dated 14.09.2006 for the establishment of Warehouse/Logistics/Industrial Assembling Light Engineering in the revenue estate of village- Chamaru & Mehtabgarh, Tehsil Rajpura, District Patiala to M/s Ishanvi Industrial & Logistics Park Pvt. Ltd. (SIA/PB /MIS / 145940/2020).

The project proponent was granted Environmental Clearance for the establishment of Warehouse/Logistics/Industrial Assembling Light Engineering in the revenue estate of village- Chamaru & Mehtabgarh, Tehsil Rajpura, District Patiala.

The project proponent has applied for obtaining amendment in the Environmental Clearance granted to it. Earlier, the EC was granted for establishment of Warehouse/Logistics/Industrial Assembling Light Engineering units. Now the project proponent has applied for obtaining permission for establishment of all other Red/Orange/ Green/White category units as categorized by the PPCB except category A or category B units as mentioned in the EIA notification dated 14.09.2006.

The project proponent was raised EDS on 17.06.2020 to which the project proponent to which the project proponent replied, and the reply was attached as Annexure-A of the agenda. The project proponent has deposited Rs. 235250 through NEFT on 27.06.2020.

The project proponent has requested that since the project is to be established in the Integrated Industrial Estates namely “Super Mega Industrial Estate” by Vividha Infrastructure Pvt. Ltd and M/s Vividha Infrastructure Pvt Ltd. has already been accorded with the Environment Clearance by SEIAA, Punjab for the establishment of the industries categorized as Red, Orange, Green and White as per the PPCB classification via Environment Clearance letter no. DECC/SEIAA/2019/628 dated 13.08.2019.

At present no specific industry is proposed to be established within the project, but the project proponent has given a general list of industries which may be established in future. List of the industries is given as under:-

Light and Heavy Engineering/ Assembling • Automotive-Spare parts & accessories • IT Hardware • Pickling • Galvanizing • Finishing • Phosphating • Rubber mixing and molding etc. • Packaging • FMCG Retail Products • Ready-to-assemble furniture, fixtures & appliances • Engineering Products • Non-Agriculture Raw Produce • Readymade Garments • Cosmetics, Pharmaceutical & Healthcare Products • Finished Electronic goods • Consumer Durables • Finished Food Products • Books and Paper • Schedule-II & III Chemicals with threshold limits.

The project proponent has submitted that it is will be therefore mandatory for each unit that shall be coming up in the premises to obtain it’s own CTE/CTO independently. This will make sure the compliance with norms in regard to waste/pollution mitigation and management. Also, specialized flooring and other facilities will be arranged specific to

the industry. No water intensive industry or severely Air Polluting industry units will be permitted.

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i) Sh. Subash Chand from the promoter company.
- (ii) Sh. Ashish Rana, Environment Consultant, M/s Aplinka Solution & Technologies Pvt. Ltd.

Environmental Consultant of the promoter company informed that amendment has been applied in lines with the amendment given to the main area development project developed by M/s Vividha Infrastructure Pvt. Ltd. Further, they informed that M/s Vividha Infrastructure Pvt. Ltd. vide email dated 14.11.2019 intimated that establishment area, Ishanvi Industrial Logistic park Pvt. Ltd. has been granted 15 Acres of land out of 47.2 acres on which red, orange, green & white industry as defined by the PPCB in the proposed project (excluding category 'A' or category 'B' covered under the schedule 1 of the EIA Notification dated 14.09.2006 can be established.

The Environment Consultant of the promoter company presented the details regarding the amendments. The presentations submitted by the environmental consultant was taken on record by the SEAC.

To a query of SEAC regarding earmarking of the red category industry on the layout plan, environmental consultant submitted the duly layout plan earmarked red category of industry which was taken on record by the SEAC.

2.0 Recommendations:

After detailed deliberations, SEAC decided to forward the case to SEIAA with recommendations to amend the Environment Clearance earlier granted vide letter no. 1110-1119 dated 09.12.2019 to M/s Ishanvi Industrial & Logistic Park Pvt. Ltd. located in the revenue estate of Village Chamaru & Mehtabgarh, Tehsil Rajpura, District Patiala. As per the detailed mentioned in the online application and subsequent presentation/clarification made by the Project proponent and his consultant with proposed measures, to the following extent with the following additional conditions.

- i) Not more than 15 acres out of 47.2 acres be earmarked for the Red & Orange category of industries.
- ii) No water intensive industry like water packaging, dying, tannery, distillery etc. shall be established. Moreover, the lesser intensive units shall also have Zero Liquid Discharge Treatment based Technology. Hence, there will be no trade/industrial effluent discharge from the industries outside the project premises.
- iii) No severely Air Polluting industry like cement grinding units, Induction (more than 500 kgs/ heat)/ Electric ARC steel furnaces/ Cupola furnaces/ Reheating Rolling Mills, Brick Kilns, Salla Plants, Dying, Packaged Drinking water/ soft drink/ beverages units

, tannery, distillery, pharmaceutical etc. shall be allowed to be set up in the project. Only lesser Air Polluting having electric heating or cleaner fuels like LPG, CNG, boiler (not more than 2 ton/hr steam generation capacity) and other furnaces having only liquid fuel or solid fuel (Lesser than 150 Kg/hr consumption) shall be allowed to be set up.

- iv) The Project proponent shall not install any groundwater abstraction structure without permission from the CGWA or competent authority.
- v) Freshwater for drinking and domestic requirement of the project will be met after taking requisite permissions from CGWA or other competent authority. A single approval will be obtained for the whole park by the proponent.
- vi) The project proponent shall provide piezometers at the project site as per the CGWA guidelines.
- vii) Each individual industry or project will obtain mandatory permissions like consent to establish/ operate and authorization under the pollution control laws from the Punjab Pollution Control Board.
- viii) All the industries will adopt proper and adequate treatment arrangements to control the fuel burning and process emissions. Also, the DG sets shall be equipped with canopies.
- ix) The project proponent shall carry out the CER activities w.r.t OM dated 01.05.2018 as per the proposal submitted.
- x) The project proponent shall make arrangement to store chemicals at adequate height, in consultation with Drainage Division, Department of Irrigation, Punjab, so that there is no chance of leaching or contamination of soil and ground water.
- xi) Green belt in the industrial pocket reserved for polluting industries, shall be developed in an area of 33% of the area earmarked for such activities. For rest of the area, the guidelines for green belt as approved by the competent authority approving layout plan, shall be applicable.

Item No. 194.16 Application for obtaining Environmental Clearance for expansion of an existing Sugar Mill Plant of capacity 5000 TCD along with co-generation power plant of capacity 59.5 MW at village ChakAllabaksh and Muahiuldinar, Tehsil Mukerian, District Hoshiarpur, Punjab by M/s Indian Sucrose Limited, GT Road, Tehsil Mukerian, Distt. Hoshiarpur (Online Proposal No. SIA/PB/IND2/22643 /2018).

1.0 Background

The project proponent has applied for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for expansion of an existing Sugar Mill Plant of capacity 5000 TCD along with a co-generation power plant of capacity 59.5 MW at village ChakAllabaksh and Muahiuldinar, Tehsil Mukerian, District Hoshiarpur, Punjab.

Terms of Reference was granted to the project proponent vide letter No. SEIAA/2018/858 dated 16.07.2018. The public hearing was conducted by PPCB on 23.10.2018

2.0 Present Case

The application for obtaining EC was submitted on 26.03.2018 before the date of notification dated 27.06.2019 and thus the fee for obtaining EC is not applicable on the project. The EIA report was submitted by the project proponent to SEIAA in January 2019, on the basis of which EDS was raised on 14.02.2019 & 18.12.2019. The project proponent submitted the reply online. The project proponent was again raised ADS on 01.04.2020 and 19.10.2020, for which the reply was submitted on 23.09.2020 & 19.10.2020, respectively.

3.0 Deliberations during the 186th meeting of SEAC held on 26.12.2019

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

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

The case was again considered by the SEAC in its 187th meeting held on 26.02.2020 and Environmental Consultant of the Project proponent submitted the reply of the queries of the Committee raised in 186th SEAC meeting as under:

Sr. No.	Observations	Replies
1.	Revised Water Balance Diagram	<p>Total fresh Water requirement is 597 KLD out of which 47 KLD for domestic and 550 KLD will be used for industrial purpose.</p> <p>Total discharge available at the outlet of ETP is 2515 KLD (after addition of surplus water of 2400 KLD from sugar cane) out of which 1270 KLD to be used for green belt, 800 KLD for wet scrubber as make up water, 41 KLD for Bagasse sprinkling, 354 KLD for horticulture and 50 KLD for floor washing purposes.</p>
2.	Affidavit Handling of Sludge by Centrifuge.	<p>Affidavit for Handling of Sludge by Centrifuge in 10 sludge beds having size 8X4 within the plant premises has been submitted.</p> <p>Now, they will use the centrifuge technique to handle sludge.</p>
3.	Inlet and outlet Characteristics of existing APCD.	<p>There are 3 boilers (40+40+80 TPH) having 2 stacks. Results of emissions at inlet is found as under:-</p> <p>At Inlet PM10: 2492.68 mg / Nm³ & 2462.52 mg / Nm³, SO₂ :54.12 mg / Nm³ & 62.11 mg / Nm³ NO_x (65.32 mg / Nm³& 74.28 mg / Nm³), which is reduced by using wet scrubber as APCD and emission results is as under:-</p> <p>At outlet PM10 :102.45 mg / Nm³ & 112.85 mg / Nm³, SO₂: 32.58 mg / Nm³ & 38.47 mg / Nm³ NO_x :40.12 mg / Nm³ & 47.12 mg / Nm³</p>
4.	Examine the installation of ESP as APCD.	<p>Technology for the proposed ESP is dry type Electrostatic precipitators (ESP) to collect dust in the flue gas produced by boiler.</p>
5.	Ground water sampling from State Laboratory i.e PBTI Lab, Mohali	<p>A copy of the test report of PBTI Lab has been submitted, but the sampling is not done by PBTI. The following are the details:</p> <p>Total 3 samples (Chak Alla Baksh, Bishanpur & Khanpur) were taken from nearby villages.</p> <p>Results of all parameters of ground water sampling for 2 locations are within permissible limits.</p> <p>There is only 1 parameter of 1 sample (Chak Alla Baksh, 0.7 Km) i.e., hardness is observed as 240</p>

		mg/l which is higher than desirable limits (200mg/l) but lower than permissible limits (600 mg/l).
6.	Damage assessment studies in compliance to the TOR no. 14	A revised study of Damage assessment done in the nearby area at the project site has been submitted. No Environmental damage was observed. A total 41/- Lakhs will be spent as a remediation plan.
7.	Detail of CER activities as per OM Dated 01.05.2018 for Rs 8.0 Crore as committed during public hearing.	Total CER cost of Rs. 8.4 Crore submitted. The project proponent will provide R.O., Rainwater harvesting, Computers, Dispensary to the nearby villages. Total budget 1.6 Crores/ yr for 5 years will be spent as CER activity in nearby 5 villages.
8.	Rain water recharging proposal.	Rainwater recharging proposal submitted indicating the rainwater recharging pit can accommodate 116.5 m ³ /hr of the rainwater. Therefore, 26 rainwater harvesting structure require to accommodate the total quantum of runoff (47367.56 m ³ /annum)
9.	Detail of the plantation area & Maintenance plan for Green Area.	Submitted, the total land area of the project site is 21.46 ha out of which 7.79 ha (33.39%) is greenbelt.

The reply submitted by the project proponent was taken of record by the SEAC. SEAC was not satisfied with the reply of the project proponent given at observation no. 1, 5, 6, 7 & 8. After detailed deliberations, SEAC decided to defer the case.

The decision of SEAC was conveyed to the project proponent on 01.04.2020 through online ADS (additional detail sought) facility available on the web portal. Further, the Member Secretary, PPCB was requested vide email dated 11.08.2020 to send the status report on the following points:-

- i) Construction/Installation status of the expansion proposal of the proposed project of the industry
- ii) As to whether existing production is less than equal to 5000 TCD. Please send the detailed report.
- iii) Status of existing consents issued to existing unit under the Air Act, 1981 and Water Act, 1974.
- iv) As per MoEF Standard conditions/guidelines for granting EC of existing projects which have not taken EC earlier, the following are required:
 - a. 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.
 - b. In case of units operating prior to EIA notification 2006, copies of CTE & CTO of FY 2005-2006, obtained from PPCB, are required to be submitted.

- v) Whether any litigation pending against the project or any direction/order passed by SPCB/ Court of Law against the project, if so, details thereof shall also be included.
- vi) 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.

Accordingly, SEE, ZO, Jalandhar vide email dated 24.09.2020 has sent the report. Further, the project proponent has submitted reply to the observations raised in 186th SEAC meeting vide letter dated 29.08.2020, which are attached as under:

Sr. No.	Observations	Replies
1.	i) Submit compliance of TOR no iv-x (b), i.e. in case the existing project has not obtained environment clearance, copies of Consent to Establish/ No Objection Certificate and Consent to Operate obtained from PPCB along with compliance report to the conditions of consents from PPCB	PP submitted that compliance of ToR has been incorporated in the Final revised EIA report submitted along EDS reply dated 29.08.2020. Copy of the Latest CTO submitted valid upto 31.03.2020 and self-compliance report submitted to PPCB for verification has been attached.
2.	Submit action taken report on the compliance report to the conditions of consents from PPCB	Compliance report from PPCB is awaited Later on, submitted on 24.09.2020
3.	Submit revised rainwater recharging proposal based upon the pond adoption as per the design of PPCB. In this regard, Project Proponent shall also submit NOC/ permission from the rural development authorities.	PP submitted that the annual run-off generated from the rooftop area is 35526.19 m ³ /year, when annual rainfall is 591.0 mm. The industry has proposed for adoption of ponds outside the industrial premises, in which total 64763.91m ³ /year recharge will be done. Further, 5no. village ponds will be adopted for rainwater harvesting. NOC from concerned village sarpanch are yet to be obtained.
4.	Submit revised CER activities as per the OM dated 01.05.2018	The project proponent will provide medical facility, Pond adoption, and Dispensary adoption to the nearby villages. NOC has

		<p>been already taken from the village dispensary and schools. Total CER cost is 8.4 Crore.</p> <p>NOC from concerned village sarpanch for CER activity no. 1,2,4, 6,7,8,9 and 10 are yet to be obtained.</p>
5.	Submit a copy of the application filed to CGWA for obtaining approval for the abstraction of existing ground water. Also submit a copy of revised application filed to CGWA for obtaining approval for the proposed expansion.	Submitted Revised application Number: 21-4/5656/PB/IND/2020 on dated 28.04.2020 for abstraction of 597 KLD (existing and proposed) freshwater has been filled to CGWA.
6.	Submit revised Water Balance Diagram along with basis/calculation of water requirement.	<p>Submitted revised Water Balance Diagram with total fresh Water requirement for existing and proposed project is 597 KLD out of which 47 for domestic and 550 will be used for industrial purpose.</p> <p>Whereas, the Action plan for treatment of treated waste water of 1520 KLD as per specific TOR is yet to be submitted.</p>
7.	Upload the Final EIA report on the Parivesh portal	PP has submitted receipt of online submission & informed that Final EIA has been updated as per the MOM and uploaded on Parivesh portal .
8.	Provide waste water treatment details for existing & proposed expansion separately	PP has submitted Waste water treatment details for existing & proposed alongwith treated water characteristics & design criteria.
9.	Ground water sampling from State Laboratory i.e PBTI Lab, Mohali as the earlier sample not drawn by M/s PBTI, Lab	PP has submitted that total 3 samples (Chak Alla Baksh, Bishanpur & ward no.5 Khanpur) were taken from nearby villages. Copy of the test report of PBTI Lab has been submitted.

10.	Resubmit the damage assessment studies in compliance to the TOR no. 14	PP has submitted that total 45/- Lakhs will be spent as remediation plan. Study of Damage assessment done in the nearby area at the project site. No Environmental damage was observed.
11.	Clarify, project coordinates mentioned in EIA report not matching with the coordinates mentioned in presentation.	PP submitted that it is a typographical error. They ensure it will not repeat correct coordinate mentioned in updated EIA report.

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

The meeting was attended by Sh. V.P Gupta, Vice President of the company through Video Conference and Sh. Aman Sharma, Consultant, M/s Vardan Environet, Gurugram.

The Environmental Consultant of the Project proponent presented the reply to the queries of the committee raised in the 187th SEAC meeting. The reply submitted by the project proponent was taken on record by the SEAC. Environmental Consultant of the promoter company was allowed to make the presentation for proposal before SEAC. SEAC was not satisfied with the reply given by the project proponent. After presentation and discussion on the replies of the observations raised in 187th SEAC meeting, the following queries were asked from the consultant:

- i. Submit CER proposal @ 1% of the proposed expansion cost.
- ii. Remediation plan of Rs 45 Lacs submitted against derived benefits Rs.1.7 Crore. The revised remediation plan of Rs 1.7 Crores be submitted.
- iii. Submit plan for up-gradation of existing ETP to ZLD technology by reusing the waste water.
- iv. Submit Environment Management Plan for disposal of Boiler ash, APCD dust, ETP sludge.
- v. Submit a revised plan for the development of a green belt by including the maintenance cost of the plants in the EMP. The green belt area does not include shrubs & grass in the lawns.

After detailed deliberations, SEAC decided to defer the case till the project proponent submits a satisfactory 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 dated 19.10.2020.

6.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was again considered by the SEAC in its 194th meeting held on 23.10.20 and was attended by the following:

- i) Sh. V.P Gupta, Vice President
- ii) Mr. Shubham Tyagi, FAE from M/s Vardan Environet

Environmental Consultant of the project proponent presented the reply of the queries of the committee raised in 193rd SEAC meeting held on 26.09.2020 as under:-

S. No.	Observations	Replies Submitted vide letter dated 19.10.20
1.	Submit CER proposal @ 1% of the proposed expansion cost.	<p>PP submitted that cost of proposed expansion is Rs. 190 crores. Budget for Corporate Environmental Responsibility (CER) has been considered as 1% of the proposed expansion cost, i.e. Rs. 1.90 crore. The CER budget will be executed within three years after obtaining necessary clearances. Further, submitted the following:</p> <ul style="list-style-type: none"> a. Proposed CER activity proposal. b. Recommendation for the renovation work granted by Block Development and rural Officer, Dasuya vide memo no. 2845 dated 14.10.2020. c. Resolution from respective Gram Panchayats d. Scheme for pond rejuvenation e. Proposal for construction of Toilet in Govt School of Three Villages alongwith NOC from the Headmaster of respective schools f. Proposal for providing medical facilities in Govt Dispensary of Three villages alongwith NoC from the Medical officers of respective Govt Dispensaries. g. Proposal for development activities like Solar Lights, Green area development in five villages alongwith NoC from the Sarpanch of respective villages.
2.	Remediation plan of Rs. 45 Lacs submitted against derived benefits Rs.1.7 Crore.	<p>PP submitted that revised budget of remediation plan has been increased from Rs. 45 lacs to Rs. 1.70 crore in line with the derived benefits. Rs. 1.70 crore will be spent of the following two activities:</p> <ul style="list-style-type: none"> • Upgradation of effluent treatment plant – Rs. 1.50 crore. • Rejuvenation of pond in Naraingarh village – Rs. 0.20 crores.
3.	Submit plan for up-gradation of existing ETP to ZLD technology	PP explained & submitted the scheme of ETP repair and upgradation viz a viz item wise expenditure.

S. No.	Observations	Replies Submitted vide letter dated 19.10.20
	by reusing the waste water.	
4.	Submit Environment Management Plan for disposal of boiler ash, APCD dust, ETP sludge.	<p>PP informed that three solid wastes are generated from sugar mills operation, i.e. Boiler ash (28.8 TPD), ETP sludge (1.44 TPD) and press mud (456 TPD) & submitted revised Environmental Management Plan w.r.t solid waste management.</p> <p>Further, informed that above solid wastes are non-hazardous in nature and will be used as manure in farming and have submitted agreements with farmers in the nearby area for lifting of the solid wastes at no cost.</p> <p>Also submitted an article on Integrated use of boiler ash as organic fertilizer and soil conditioner with NPK in calcareous soil.</p>
5.	Submit a revised plan for the development of a green belt by including the maintenance cost of the plants in the EMP. The green belt area does not include shrubs & grass in the lawns.	<p>PP informed that plot area of the sugar mill is 21.46 ha. Proposed expansion will be carried out within the existing plot area. Greenbelt has been developed in more than 33% of the plot area, 7.79 Ha. Wherein, 13300 Eucalyptus trees are present along with 600 other trees of indigenous species like Neem, Peepal, Ashoka & Amla. Additionally 200 plants of Cassia Fistula (Amaltash), Neem, Peepal (Ficus religiosa), Ashoka & Plumeria alba (Champa) Amla (Phyllanthus emblica) have been proposed for the green belt.</p> <p>Further, submitted revised plan for the development of a green belt by including the maintenance cost of the plants in the EMP. 7500 Eucalyptus trees will be planted in additional 7 ha. land owned by the company for waste water utilization.</p>

Environmental Consultant of the promoter company made the presentation of proposal before SEAC. After the discussions, SEAC made certain observations to which project proponent replied as under:

S. No.	Query	Reply			
1.	Submit revised EMP Budget	PP submitted the revised EMP Budget as following:			
		S. No.	Particulars	Initial Cost (Crore)	Recurring Cost (Lakh)
		1.	Air Pollution Control ESP/Wet Scrubber	0.95	5
			Remediation Plan		
		2.	Wastewater Treatment (ETP)	1.5	15
		3.	Pond Adoption – Vill. Naraingarh	0.20	2
		4.	Green Belt Development/ Solid Waste Disposal	1.24	8
			Total	3.89	30
2.	Submit revised water balance chart	PP submitted the revised water balance chart for Summer/Winter/Rainy Season			

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

7.0 Recommendations

After detailed deliberations, SEAC decided to award '**Silver Grading**' to the project proposal under category B1, Activity 5(j) as per EIA notification 2006 and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for expansion of an existing Sugar Mill Plant at village ChakAllabaksh and Muahiuldinar, Tehsil Mukerian, District Hoshiarpur, Punjab as per the details mentioned in the Form 2, EIA, EMP & subsequent presentation /clarifications made by the project proponent and his consultant. The details of the salient features project as given in Final revised EIA Report submitted vide letter no. 175 dated 29.08.2020 and other documents along with conditions are as under:

Salient features of the project:

Sr. No.	Description	Details		
1.	Name of the project	M/s Indian Sucrose Ltd		
2.	Online Proposal No.	SIA/PB/IND2/22643/2018		
3.	Nature of project	EC for existing & proposed project		
4.	a) Category b) Activity	a. B1 b. 5(j) Sugar Industry		
5.	Whether the project falls in the critical polluted area	No		
6.	Project Cost	Rs. 347 Crore (Rs. 157 crore -Existing & Rs.190 Crore- Expansion)		
7.	Details of technology proposed	S.No	Details	Capacity
		1	APCD	ESP
		2	STP	50 KLD
		3	Upgraded ETP to ZLD technology	12000 KLD
		PP Proposed setting up of upgraded ETP plant with investment of Rs. 1.5 Crore		
8.	Co-ordinates	Point	Latitude	Longitude
		A	31°55'40.357" N	75°37'13.668"E
		B	31°55'42.288" N	75°37'18.500"E
		C	31°55'43.868" N	75°37'32.417"E
		D	31°55'46.081" N	75°37'37.553"E
		E	31°55'46.114" N	75°37'47.296"E
		F	31°55'34.951" N	75°37'47.112"E
		G	31°55'31.661" N	75°37'37.297"E
		H	31°55'36.520" N	75°37'24.140"E
		I	31°55'36.431" N	75°37'14.507"E

9.	Zoning as per master plan	Industrial use, CLU submitted					
10.	Consent to operate under Air & Water Act	CTOA/Renewal/HSP/2020/12558779 Valid upto 31 st March 2021 CTOW/Renewal/HSP/2020/12558957 Valid upto 31 st March 2021					
11.	Verified compliance report from SPCB	Submitted, PPCB vide its letter dated 24.09.2020 informed that the industry has already enhanced its capacity upto 6500 TCD. Further industry has installed boiler for the proposed expansion. Further, it was informed that Violation case No. 170/2017 pending against the industry Vs PPCB for which the next date of hearing has been fixed as 04.11.2020					
12.	Raw material details:	S. No.	Particular	Existing	Proposed	Total	Source
		1.	Sugarcane	5000 TCD	7000 TCD	1200 TCD	From reserve area by tractor trolley/trucks.
		Chemicals					
		2.	Lime	10 TPD	15 TPD	25 TPD	From market
		3.	Sulphur	4 TPD	Not required	Not required	-
		Fuel Requirement (TPD)					
		4.	Bagasse (In season)	1400	1960	3360	From their own mill
		5.	Rice Husk (Off-season)	630	882	1512	From market
		6.	Paddy Straw(Off-season)	398	560	958	From market
		7.	Wood Chips(Off-season)	200	280	480	From market
8.	Maize Cobs(Off-season)	107	150	257	From market		
13.	Production Capacity details:	Product Name	Existing (TCD)	Proposed (TCD)	Total (TCD)		
		Sugar	*6500	5500	12000		

		*As per PPCB construction status report dated 24.09.20				
14.	Details of major productive machinery/plant:	S. No.	Equipment's Machinery	Existing	Proposed	After Expansion
		1.	Boiler	160TPH (40 + 40 + 80)	200TPH (1 boiler)	200TPH (1 boiler)
		2.	DG sets	6 No. (Silent Type)	-	6 No. (Silent Type)
		3.	Wet Scrubbers	3 Wet Scrubbers	ESP	ESP
15.	Manpower requirement	350 persons				
16.	Details of Emissions (After expansion)	Sr No	Source	Capacity	Chimney Height (m)	Proposed Air Pollution Control Device
		i)	Boiler	200	30	ESP
		ii)	DG sets	4045	6	Canopy
17.	Solid Waste Generation & its disposal	Details	Unit	Proposed Quantity	Disposal method	
		Press Mud	TPD	456	Will be used as manure in farming	
		APCD dust	TPD	28.8	Will be used as manure in farming	
		ETP Sludge	TPD	1.44	Will be used as manure in farming	
		Molasses	TPH	22.5	Is being stored in 4 no. storage tanks of different capacities with total storage of 21000T & also being sold in market	
ADS reply submitted dated 19.10.2020						
18.	Waste water generation & its disposal	Details	Total Quantity (KLD)	Disposal method		
		Industrial Effluent	2375	Treated water from upgraded ETP of capacity 3000 KLD to be reused for green belt development by Karnal Technology proposal submitted along ADS reply dated 19.10.20		

		Domestic Effluent	41	After treatment in STP will be used for Gardening	
ADS reply submitted dated 19.10.2020					
19.	Block	NoN-Notified as per CGWA			
20.	Breakup of Water Requirements & its source in Operation Phase:	S. No	Description	Existing water demand (KLD)	Water demand after expansion (KLD)
		1.	Cooling water demand	0	0
		2.	Domestic water demand	15 KLD	47 KLD
		3.	Process water demand	453 KLD	550 KLD
		4.	Green Area Water Demand	Not submitted	Not submitted
		Total		468 KLD	597 KLD
		Sources of water:			
		S.No.	Purposes	Source of water	
		1.	Domestic	Fresh water	
		2.	Make-up water demand for cooling	Recycled water	
		4.	Green area water demand	Recycled water	
	As per revised EIA report submitted dated 29.08.2020				
21.	Rain Water Harvesting proposal	<p>The industry has proposed for adoption of 7 no. ponds outside the industrial premises, with total amount of Rs. 1.40 Crores for remodeling and renovation work in villages (Terkiana, New Terkiana, Baja Chak, Lamin, Behbowal, Ghaugra, Toe Makhawal). For total recharge volume of 66,456 m³ for above seven no. ponds adopted.</p> <p>Further, industry has proposed for adoption of 1 no. additional pond at Village Naraingarh, with total amount of Rs. 20 Lakhs under revised Remediation plan for recharge volume of additional 5160 m³.</p> <p>Further, Recommendation for the renovation work granted by Block Development and rural Officer, Dasuya vide memo no. 2845 dated 14.10.2020 has been submitted.</p> <p style="text-align: center;">ADS reply submitted dated 19.10.2020</p>			
22.	Revised green	Greenbelt has been developed in more than 33% of the plot area, 7.79 Ha. Wherein, 13300 Eucalyptus trees are present along with			

	belt development Plan	<p>600 other trees of indigenous species like Neem, Peepal, Ashoka & Amla.</p> <p>Project Proponent submitted that 7700 additional trees will be planted as per following details:-</p> <p>a. Additionally 200 plants of Cassia Fistula (Amaltash), Neem, Peepal (Ficus religiosa), Ashoka & Plumeria alba (Champa) Amla (Phyllanthus emblica) have been proposed for the green belt.</p> <p>b. 7500 Eucalyptus trees will be planted in additional 7 ha. land owned by the company for waste water utilization.</p> <p>ADS reply submitted dated 19.10.2020</p>																												
23.	Revised Remediation plan	<p>Project Proponent submitted that budget of remediation plan has been increased from Rs. 45 lacs to Rs. 1.70 crore in line with the derived benefits.</p> <p>Rs. 1.70 crore will be spent of the following two activities:</p> <ul style="list-style-type: none"> • Upgradation of effluent treatment plant to ZLD technology – Rs. 1.50 crore. • Rejuvenation of pond in Naraingarh village – Rs. 20 lakhs. <p>ADS reply submitted dated 19.10.2020</p>																												
24.	Revised EMP Budget details	<p>Revised EMP budget details :</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">S. No.</th> <th style="width: 60%;">Particulars</th> <th style="width: 15%;">Initial Cost (Crore)</th> <th style="width: 20%;">Recurring Cost (Lakh)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Air Pollution Control ESP/Wet Scrubber</td> <td>0.95</td> <td>5</td> </tr> <tr> <td></td> <td>Remediation Plan</td> <td></td> <td></td> </tr> <tr> <td>2.</td> <td>Wastewater Treatment (ETP)</td> <td>1.5</td> <td>15</td> </tr> <tr> <td>3.</td> <td>Pond Adoption – Vill. Naraingarh</td> <td>0.20</td> <td>2</td> </tr> <tr> <td>4.</td> <td>Green Belt Development/ Solid Waste Disposal</td> <td>1.24</td> <td>8</td> </tr> <tr> <td></td> <td>Total</td> <td>3.89</td> <td>30</td> </tr> </tbody> </table> <p>Submitted with reply to observation of SEAC dated 23.10.2020</p>	S. No.	Particulars	Initial Cost (Crore)	Recurring Cost (Lakh)	1.	Air Pollution Control ESP/Wet Scrubber	0.95	5		Remediation Plan			2.	Wastewater Treatment (ETP)	1.5	15	3.	Pond Adoption – Vill. Naraingarh	0.20	2	4.	Green Belt Development/ Solid Waste Disposal	1.24	8		Total	3.89	30
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25.	Revised CER budget and Activities	<p>Budget for Corporate Environmental Responsibility (CER) has been considered as 1% of the proposed expansion cost (Rs. 190 crores), i.e. Rs. 1.90 crore. The CER budget will be executed within three years after obtaining necessary clearances. Further, submitted the following:</p>																												

		S.No.	Activities	Time Period	Budget (in Rs.)	
		1	Remodelling and Renovation work of Five ponds in five villages i.e. 1. Terkiana 2. New Terkiana 3. Baja Chak 4. Lamin 5. Behbowal 6. Ghaugra 7. Toe Makhawal	3 Years	1.40 Crores	
		2	Construction of Toilets in Govt School of three villages i.e. 1. Panjdhera Kalan, 2. Khanpur 3. Maradpur Awana	3 Years	15 Lakhs	
		3	Providing Medical Amenities like Beds, Medicines and Ambulance in Govt Dispensary of Three villages i.e. 1. Bhangala, 2. Tanda Ram Sahai, 3. Behbal Manj	3 Years	20 Lakhs	
		4	Development of Infrastructure facilities like Public Toilets, Solar Lights, Green area development in five villages i.e. 1. Khanpur 2. Chak Alla Baksh 3. Bishanpur 4. Mahiuldinpur 5. Dugri Raj Puttan	3 Years	15 Lakhs	
		Grand Total			---	1.90 Crores
ADS reply submitted dated 19.10.2020						

Conditions to be imposed in the Environmental Clearance:

I. Statutory compliance

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

- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan I Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain authorization under the Hazardous and other waste, Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacturer, 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 (MYA), 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 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 install system carryout to 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 within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)
- iii. 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.

- iv. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- v. 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.
- vi. 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.
- vii. 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.
- viii. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

III. Water quality monitoring and preservation

- i. For 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 (applicable in case of the projects achieving ZLD) and connected to SPCB and CPCB on line servers.
- ii. Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).
- iii. 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.
- iv. 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.
- v. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CG WA in this regard.
- vi. Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper

followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP and then passed through RO system.

- vii. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.

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 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 energy sources for lighting purposes shall preferably be LED based.

VI. Waste management

- i. 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.
- ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF. Further, industry proposed following mode of disposal as under:

S.No.	Type of Waste	Quantity (TPD)	Mode of Disposal
1	ETP Sludge	1.44	Will be used as Manure in Farming.
2	Press Mud	456	Will be used as Manure in Farming.
3	Boiler Ash	28.8	Will be used as Manure in Farming.

- iii. 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 vapor recovery system.
- f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

VII. Green Belt

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant. Greenbelt has been developed in more than 33% of the plot area, 7.79 Ha. Wherein, 13300 Eucalyptus trees are already present along with 600 other trees of indigenous species like Neem, Peepal, Ashoka & Amla. Further, 7700 additional trees will be planted as per following details:-
 - a. 200 plants of Cassia Fistula (Amaltash), Neem, Peepal (Ficus religiosa), Ashoka & Plumeria alba (Champa) Amla (Phyllanthus emblica) have been proposed for the green belt.
 - b. 7500 Eucalyptus trees will be planted in additional 7 ha. land owned by the company for waste water utilization.

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 PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. 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.
- iv. 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.
- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. 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.

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. Industry submitted that cost of proposed expansion is Rs. 190 crores. Budget for Corporate Environmental Responsibility (CER) has been considered as 1% of the proposed expansion cost, i.e. Rs. 1.90 crore. The CER budget will be executed within three years after obtaining necessary clearances. Further, submitted the following:

S.No	Activities	Time Period	Budget (in Rs.)
1	Remodelling and Renovation work of Five ponds in five villages i.e. 1. Terkiana 2. New Terkiana 3. Baja Chak 4. Lamin 5. Behbowal 6. Ghaugra 7. Toe Makhawal	3 Years	1.40 Crores
2	Construction of Toilets in Govt School of three villages i.e. 1. Panjdhera Kalan, 2. Khanpur 3. Maradpur Awana	3 Years	15 Lakhs
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4	Development of Infrastructure facilities like Public Toilets, Solar Lights, Green area development in five villages i.e. 1. Khanpur 2. Chak Alla Baksh 3. Bishanpur 4. Mahiuldinpur 5. Dugri Raj Puttan	3 Years	15 Lakhs
Grand Total		---	1.90 Crores

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

resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. 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.

X. 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 as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- 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 Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The 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 shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1986, 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

XI. Additional Conditions

- i. The industry shall spent amount of Rs. 1.70 crore as per the remediation plan on the following activities:
 - a. Upgradation of effluent treatment plant to ZLD – Rs. 1.50 crore.
 - b. Rejuvenation of pond of volume of additional 5160 m in Naraingarh village – Rs. 20 lakhs.
- ii. The project proponent shall submit a Bank Guarantee of amount Rs. 1.70 Crore equivalent to the amount mentioned in the remediation plan submitted on 19.10.2020 with the Environmental Engineer, PPCB, Regional Office, Hoshiarpur in compliance with the provisions of MoEF notification dated 14.03.2017 as amended on 08.03.2018. The Bank Guarantee shall be deposited prior to the grant of Environmental Clearance and will be released after successful implementation of remediation plan.
- iii. The industry shall adopt 7 no. ponds outside the industrial premises, with total amount of Rs. 1.40 Crores as per following details:

S. No	Particulars	Recharge Pond 1	Recharge Pond 2	Recharge Pond 3	Recharge Pond 4	Recharge Pond 5	Recharge Pond 6	Recharge Pond 7
1	Village	Terkiana	New Terkiana	Baja Chak	Lamin	Behbowal	Ghaugra	Toe Makhawal
2	Area (Acres)	3.0	3.5	1.5	2.3	0.75	0.81	0.25
3	Depth in meter	2.4	1.8	1.8	1.8	1.8	1.8	1.8
4	Total Volume m ³ meter	18,886	6798	9509	8631	3510	14570	4552
5	Sarpanch name	Ravinder Singh	Hari Ram	Harbhajan Lal	Jashveer Singh	Harcharan Singh	Tarlochan Singh	Avtar Singh
7	Expenditure	Rs. 22 lakhs	Rs. 26 lakhs	Rs. 20 lakhs	Rs. 25lakh	Rs. 17 lakhs	Rs. 18 Lakhs	Rs. 12 Lakhs

- iv. As proposed by industry, treated waste water of 2376 KLD will be used for the development of green belt as per the Karnal Technology in the existng area of 7.79 Ha and the proposed green area of 7.19 Ha.

- v. The industry shall spent amount of Rs. 3.89 Cr. towards the implementation of Environment Management Plan (EMP) as per the details given as under:-

S. No.	Particulars	Initial Cost (Crore)	Recurring Cost (Lakh)
1.	Air Pollution Control ESP/Wet Scrubber	0.95	5
Remediation Plan			
2.	Wastewater Treatment (ETP)	1.5	15
3.	Pond Adoption – Vill. Naraingarh	0.20	2
4.	Green Belt Development/ Solid Waste Disposal	1.24	8
	Total	3.89	30

Item No 194.17: Application for issuance of ToRs for carrying out EIA study for obtaining environmental clearance under EIA notification dated 14.09.2006 for setting up of new residential colony project namely "Suntec City by M/s the Indian Co-operative House Building Society Ltd, located at village Palheri (H.B. no. 173), Tehsil- Kharar and Village Raihmanpur (H.B no. 172), Tehsil- Majri, District- SAS Nagar, New Chandigarh, Punjab Proposal No. (SIA/PB/NCP/42854/2019)

1.0 Present case:

The project proponent has applied for issuance of TORs to M/s Suntec City for setting up of new residential colony project namely "Suntec City ", located at village Palheri (H.B. no. 173), Tehsil- Kharar and Village Raihmanpur (H.B no. 172), Tehsil- Majri, District- SAS Nagar, New Chandigarh, Punjab with proposed built-up area as 2,08,819.52 Sqm. Project is covered under Activity 8(b) as per EIA notification-2006.

The project proponent submitted the Form I (Appendix I), 1A, Conceptual Plan and other additional documents on online portal. They have also deposited the processing fee amounting to Rs.52,205/- (25% of the total fee) through DD No. 004758 dated 13.12.2019 .

The application was scrutinized & Essential Details were sought on 12.01.2020 and 15.04.2020, to which the project proponent replied dated 27.02.2020 and 09.07.2020 respectively. The brief details are as under:

Sr. No.	Detail of the Document	Reply submitted by PP dated 12.01.2020
1.	Cost of the project duly certified by Chartered Engineer/ Approved valuer and Chartered Accountant	Rs 370 Cr, Certificate submitted
2.	Copy of the Master plan duly marked with project site.	Submitted.
3.	Pre-feasibility report/ conceptual Plan as per Ministry of Environment & Forests, Circular dated 30.12.2010.	Submitted.
4.	Proof of ownership of land	MOA is submitted in favour of Sh. Ajay Sehgal

Sr. No.	Detail of the Document	Reply submitted by PP dated 09.07.2020
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1.	Certificate of accreditation of EIA consultant	Consultant: P and M Solution Certificate No.NABET/EIA/1922/IA0053
2.	Copy of Memorandum of Article & Association / partnership deed /undertaking of sole proprietorship/list of Directors and names of other persons responsible for managingthe day-to-day affairs of the project	MOA is submitted in favor of Sh. Ajay Sehgal
3.	Submit a Copy of Master Plan of the area showing land use pattern of the proposed site/certificate from Competent Authority intimating land use pattern of the project site as per proposals of the Master Plan of the area.	Submitted.
4.	Undertaking for no litigation pending against the project.	No litigation is pending w.r.t. project, Undertaking is submitted.

Environmental Engineer, PPCB, RO,SAS Nagar was requested vide email dated 15.09.2020 to send the construction status of the project site. However, the report was not sent by PPCB till the time of SEAC meeting.

The details of the project as given in Form 1, Pre-feasibility Report / Conceptual Plan, above EDS replies and other additional documents are as under:

Sr. no.	Description	Details
1.	Name & Location of the project	M/s. The Indian Co-op House Building Society Ltd. at Village Palheri (H.B. No. 173), Tehsil Kharar and village Raihmanpur (H.B. No. 172), Tehsil Majri, Distt. SAS Nagar (Area 108.58 acres). New Chandigarh, Punjab
2.	Project/activity	8(B)
3.	Co-ordinates of all the corners of the project site as per following:	
	S.No.	Latitude
	1.	30°47'40.11"N
	2.	30°47'41.38"N
	3.	30°47'26.04"N
	4.	30°47'22.05"N
	5.	30°47'28.91"N
	6.	30°47'14.41"N
	7.	30°47'6.62"N
		Longitude
		76°41'42.76"E
		76°41'40.67"E
		76°41'7.23"E
		76°41'7.36"E
		76°41'12.53"E
		76°41'9.72"E
		76°41'15.94"E

"Proceedings of 194th meeting of SEAC
held on 23.10.2020"

	8.	30°47'8.30"N	76°41'19.70"E
	9.	30°47'14.38"N	76°41'13.93"E
	10.	30°47'16.23"N	76°41'24.71"E
	11.	30°47'12.20"N	76°41'29.77"E
	12.	30°47'4.14"N	76°41'42.25"E
	13.	30°47'4.27"N	76°41'37.25"E
	14.	30°47'11.87"N	76°41'42.42"E
	15.	30°47'31.82"N	76°41'36.99"E
	16.	30°47'31.54"N	76°41'41.51"E
	17.	30°47'38.45"N	76°41'51.49"E
	18.	30°47'22.28"N	76°41'15.37"E
4.	Copy of the Master plan duly marked with the project site		Submitted
5.	Copy of duly signed Layout plan		Submitted approved Layout plan having approved Letter No. 5542-CTP(PB)/SP-454 dated 11-11-2016.
6.	Pre-feasibility/ conceptual report		Submitted
7.	Proof of ownership of land		Submitted
8.	Details of CLU certificate		Submitted CLU by Department of Town & Country Planning, Punjab Memo no. 2629 CTP(PB)/SP-432 dated 03-06-16.
9.	Copy of Memorandum of Article & Association.		Submitted Copy of Memorandum of Article in favor of Sh. Ajay Sehgal
10.	Proposed ToRs (based on the standard ToRs)		Submitted
11.	Classification/Land use pattern as per Master Plan		As per the New Chandigarh Master plan 2031 project falls in residential area.
12.	Cost of the project		Rs. 370 Cr (Development 37.50 + Land 332.50) EDS reply submitted Dated: 12.01.2020
13.	Processing Fee details (Amount/NEFT no./dated)		Amount Rs 52,205/- Ref No:183512003671 DD No: "004758" dated 13-12-2019
14.	Detail of various components		
	S.no.	Description	Particulars
			Unit

1.	Plot Area (acres)	439407.67 sq.m.(108.58acres / 43.94 Ha)	SQM
2.	Proposed Built Up Area	208819.52 sq.m	SQM
3.	Number of Building Blocks	557 (Plots) Shopping Education Site EWS	NOS
4.	Total no of Saleable DU's	557 (Plots) Shopping Education Site EWS	NOS
5.	Max Height of Building	28	M
6.	Max No of Floors	3	NOS
7.	Expected Population	13280	PERSONS
8.	Total Water Requirement	1647 Summer 1559 Winter 1532 Monsoon	KLD
9.	Freshwater requirement	1046	KLD
10.	Wastewater Generation	1307	KLD
11.	Proposed STP Capacity	2000	KLD
12.	Treated Water Available for Reuse	1176	KLD
13.	Recycled Water	642 Summer 526 Winter 486 Monsoon	KLD
14.	Surplus treated water	534 Summer 650 Winter 690 Monsoon	KLD
15.	Rain Water Harvesting Potential	2805.06	CUM
16.	Proposed Total Parking	To be Done by individual flat owner	
17.	Surface Parking	To be Done by individual flat owner	ECS
18.	Basement Parking	Done by individual flat owner	ECS

	19.	Required Green Area as per Plan	19837.69	SQM				
	20.	Proposed Green Area (7.195% as approved plan)	23791.47 Sq.m. as per approved plan	SQM				
	21.	Municipal Solid Waste Generation	5850	KG/DAY				
	22.	Quantity of Hazardous Waste Generation	Not submitted	LTS/DAY				
	23.	Quantity of Sludge Generated from STP	Not submitted	KG/DAY				
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	1046	642	470	172	---	1647
	2.	Winter	1046	526	470	56	---	1559
	3.	Rainy	1046	486	470	16	---	1532
	S.No.	Description	Source of water					
	1.	Domestic	Water will supplied by GAMADA					
	2.	Flushing purposes	Recycle water					
	3.	Green area	Recycle water					
16.	Details of acknowledgement of application filed to CGWA /Competent Authority for obtaining permission for abstraction of ground water		Not Applicable					
17.	Specify block of project site as per CGWA norms (Notified/Non Notified)		Non- Notified					
18.	Details of Wastewater generation, Treatment facility & its Disposal arrangements in Construction Phase		Not submitted Qty Details of Wastewater generation. During Construction: Septic tank followed by soak pit					

19.	Details of Wastewater generation, Treatment facility & its Disposal arrangements in Operation Phase	Total wastewater generation will be 1307KLD which will be treated in proposed STP of 2000KLD based on SBR technology to be installed within project premises. The details of the breakup of the utilization of wastewater is as under:-			
		Season	Flushing (KLD)	Green area (KLD)	Disposal in GMADA Sever (KLD)
		Summer	470	172	534
		Winter	470	56	650
		Monsoon	470	16	690
		NOC regarding permission for disposal of treated water in proposed Sever Line of GMADA vide letter Dated : 11.01.2019 .			
20.	Details of Rainwater recharging/Harvesting(m ³ /hr) proposal & technology proposed to be adopted	Total Rain Water: 2805.06 Cum/hr Harvesting pit and Tank total capacity: 137 cum No. of Pits proposed 21			
21.	Details of Solid waste generation (Qty), treatment facility and its disposal arrangement	5850.3 Kg/day during operation Treat as per the Solid Waste Management Rule 2016. GMADA waste treatment facility			
22.	Details of Hazardous Waste&E-Waste generation (Qty), Treatment facility, and its disposal arrangement	Project Proponent informed that it is a residential project, hence, no Hazardous and E-Waste generated, A very less amount will be generated that will be treated as per the Solid Waste Management Rule 2016.			
23.	Detail of DG sets	Individual plot owners will make their own arrangement, 25 kVa D.G. will be provided to power failure.			
24.	Air pollution control device details	Water sprinkler will be used at site for regular water sprinkling			
25.	Energy Requirements & Saving	50. NOS of Solar Light, Energy-saving equipments Solar water heater will be used.			
26.	Details of Environmental Management Plan				

		r.No	Environmental Protection Measures	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
		1.	Monitoring of Environment components	--	3
		2	Water Conservation measures	500	20
		3	Energy Conservation Measures	6	0.5
		4.	Green Belt Development	215	5
		5.	Solid Waste Management	5	2
			Total	726	30.5
27.	<p>c. Details of Corporate Environmental Responsibility (CER) indicating various activities to be undertaken as per the provision of OM dated 01.05.2018</p> <p>d. Details of NOC from the village Sarpanch, Certificate from the School Principal & concerned Govt. Departments etc.</p>	<p>Corporate Environment Responsibility (CER) Budget towards capital expenditure in accordance with the MoEF&CC's Office Memorandum F.No. 22-65/2017-IA.III dated 01.05.2018 for Social Welfare.</p> <p>The estimated cost of the project is Rs 370 Crores 2% of the project cost has been earmarked for the Corporate environment Responsibility (CER) to meet expenditures for the stakeholders as per social impact assessments. As per the commitment made during the public hearing an amount of Rs. 7.4 Crores will be spent</p> <p>Timeline and CER activity will be done at the time of EIA study</p>			
28.	<p>Details of green belt development shall include the following:</p> <p>c) No. of tree to be planted against the requisite norms.</p> <p>d) Percentage of the area to be developed.</p>	<p>a) No. of trees will be examined during the EIA Study</p> <p>b) 7.195 %(5.897 Acre/ 23791.47 Sq.m.) as per approved plan and 7526.54 additional.</p>			

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

The meeting was attended by Sh. Ajay Sehgal, Director of the company and Mr. S. Brahma, Environmental Consultant, M/s Shivalik Solid Waste Management Ltd., Zirakpur. Environmental Consultant of the promoter company was not allowed to make a presentation for the proposal before SEAC as the construction status report was not sent by PPCB till the time of the meeting.

3.0 Recommendations

After detailed deliberations, SEAC decided to defer the case and the same shall be placed in the next meeting of SEAC after getting the construction status report from PPCB.

In compliance with the above decision, the Member Secretary, PPCB, was requested vide email dated 19.10.20 to send the construction status of the project site. However the report is yet awaited.

4.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The meeting was attended by Sh. Devipal Sharma, Manager from the promoter company, Ms. Shivani Dutt & Sh. Suryakant Srivastva, Environment Consultant from M/s P & M Solutions Consultancy Services.

SEAC was apprised that construction status report from the PPCB has not yet received.

Environmental Consultant of the promoter company was not allowed to make a presentation for the proposal before SEAC as the construction status report was not sent by PPCB till the time of the meeting.

5.0 Recommendations

After detailed deliberations, SEAC decided to defer the case and the same shall be placed in the next meeting of SEAC after getting the construction status report from PPCB.

Item No.194.18: Application for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion for steel Manufacturing unit M/s Renny Strips Pvt. Ltd. by replacement of (1x7 TPH) induction furnaces by (3x15 TPH) and Enhancement of rolling mill at Village-Mangarh, Machhiwara road, Near Kohara, District Ludhiana, Punjab (SIA/PB/IND/45628/2018)

1.0 Background

The project proponent has applied for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for expansion for steel Manufacturing unit by replacement of (1x7 TPH) induction furnace by (3x15 TPH) induction furnaces and Enhancement of rolling mill at Village- Mangarh, Machhiwara road, Near Kohara, District Ludhiana, Punjab. Project Activity is covered under 3(a) & Category 'B1' as per EIA Notification, 2006.

The case was considered by SEAC in the 167th meeting held on 26.05.2018 and was forwarded to SEIAA with recommendation to grant TORs and SEIAA in its 134th meeting held on 09.07.2018 decided to issue the TORs to the project proponent. In compliance with the said decision, TORs were issued to the project proponent vide letter no. SEIAA/2018/928 dated 16.07.2018. The public hearing was conducted by PPCB on 01.02.2019.

2.0 Present Case

The project proponent submitted the EIA report. The project proponent has also deposited Rs. 4,60,200/- vide RTGS NO HDFCH20280949123 dated 06.10.2020, as processing fee for obtaining Environmental Clearance against the project cost of Rs. 46.02 Crore. EIA report was scrutinized and EDS were raised online on 11.05.2020 and 16.10.2020, reply to which was submitted by the project proponent on 07.10.2020 and 17.10.2020 respectively. Thereafter, the application for obtaining EC was accepted online on 20.10.2020.

3.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was again considered by the SEAC in its 194th meeting held on 23.10.20 and was attended by the following:

- i) Sh. Binny Gupta, Director of the promoter company.
- ii) Mr. S. Dutta, EIA coordinator from M/s Chandigarh Pollution Testing Lab

Environmental Consultant of the promoter company made the presentation for proposal before SEAC. After the discussions, SEAC made certain observations to which project proponent replied as under:

S. No.	Query	Reply
1.	Undertaking regarding installation of separate APCD for all proposed three induction furnaces with flow rate	PP submitted undertaking that they will upgrade existing APCD of flow rate 36000m ³ /hr to 75000m ³ /hr for 1no. proposed induction furnace and will install separate Air Pollution Control Devices (Pulse jet bag filter with offline cleaning technology) having capacity of 75000m ³ /hr each for two no. induction furnaces of 15 TPH capacity each.
2.	Revised CER activities	Submitted revised CER activities
3.	How many trees have already been planted? Which tree species will be planted?	PP submitted undertaking that total 1541 nos. of trees will be planted. The plant is already having 200 plants like Mango, Safeda, Sagwan, Ashoka, Poplar, Neem. Balance 1341 more tree species of Jamun, Arjun, Ashoka, Sagwan will be planted in coming monsoon season.
4.	Installation of Online Continuous Emission Monitoring System (OCEMS)	The project proponent agreed to install OCEMS at the inlet as well as at the outlet of APCDs.

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

4.0 Recommendations

After detailed deliberations, SEAC decided to award '**Silver Grading**' to the project proposal under category B1, Activity 3(a) as per EIA notification 2006 and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for expansion for steel Manufacturing unit M/s Renny Strips Pvt. Ltd. by replacement of 1 no. existing (1x7 TPH) Induction Furnace with 3 no. (3x15 TPH) IFs and enhancement of rolling mill at Village-Mangarh, Machhiwara road, Near Kohara, District Ludhiana, Punjab. As per the details mentioned in the Form 2, EIA report, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with following salient features and conditions as under: -

Salient features of the project:

Sr. No	Particulars	Details																		
1.	Name of Project	M/s Renny Strips Pvt. Ltd.																		
2.	Online Proposal No.	SIA/PB/IND/45628/2018																		
3.	Nature of project	EC for existing & proposed project																		
4.	a) Category b) Activity	(a) B-1 (b) Metallurgical Industries (ferrous & non ferrous) (8), Schedule 3(a) as per EIA notification-2006																		
5.	Whether the project falls in the critical polluted area notified by MoEF&CC/CPCB.	No, The distance is more than 5 Km. PP submitted that the project site is adjacent to industry M/s Renny Strips Pvt. Ltd. (Furnace Division) owned by same project proponent which was granted EC by Hon'ble authority vide letter no.- DECC/SEIAA/2020/1647 dated 20/05/2020. EDS reply submitted dated 07.10.2020																		
6.	Total Project Cost (In Crores)	Rs. 46.02 Crore																		
7.	Details of technology proposed for control of emissions & effluents generated from project	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">S. No.</th> <th style="text-align: center;">Details</th> <th style="text-align: center;">Technology to be adopted by new unit/After expansion</th> <th style="text-align: center;">Capacity of proposed technology</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>APCD</td> <td>Offline cleaning of pulse jet bag filter</td> <td>15 TPH for each IFs</td> </tr> <tr> <td style="text-align: center;">2</td> <td>STP</td> <td>MBBR technology</td> <td>13 KLD</td> </tr> </tbody> </table>	S. No.	Details	Technology to be adopted by new unit/After expansion	Capacity of proposed technology	1	APCD	Offline cleaning of pulse jet bag filter	15 TPH for each IFs	2	STP	MBBR technology	13 KLD						
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9.	Zoning of project land as per master plan	<p>Industrial Zone</p> <p>PP submitted that the industry is running before the year 2007. Therefore, the CLU is not applicable on the industry and has submitted notification regarding uniformity in Zoning regulations of the state of Punjab.</p> <p>EDS reply submitted dated 17.10.2020</p>																									
10.	Details of valid consent to operate under Air & Water Act	<p>Consent to Operate has been obtained from PPCB under the Water (Prevention & Control of Pollution) Act, 1974 valid till 30.09.2023 and</p> <p>the Air (Prevention & Control of Pollution) Act, 1981 valid till 30.09.2023.</p>																									
11.	ToR compliance report	Submitted																									
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		5.	D.G. Set	75kVA-01No.	---	75kVA-01No.	
		6.	EOT Crane	05 No.	---	05 No.	
15.	Manpower requirement	350					
16.	Details of Emissions (After expansion)	Existing					
		S. No.	Source of stack emission	Capacity	Stack height (m)	APCD	
		1.	Induction Furnace	7 TPH	30m above ground level	Pulse Jet bag filter with offline cleaning technology.	
		2.	D.G. Set	1X75 kVA	2.5m above roof level	---	
		After Expansion					
		3.	Induction Furnace	3X15 TPH	30m above ground level	Pulse Jet bag filter with offline cleaning technology.	
		4.	D.G. Set	1X75 kVA	2.5m above roof level	---	
17.	Hazardous Waste Generation details & its disposal.	Sr.no.	Waste Category	Existing	After Expansion	Disposal	
		1.	35.1 Flue gas Cleaning residue	10 t/annum	350 t/annum	Agreement with M/s Madhav alloys Pvt.LTD. for recovery of metals	
		2.	5.1 Used oil/Spent oil	0.010 KL/year	0.010 KL/annum	Lubricant within the industry	
18.	Solid Waste generation and its mode of disposal:	Details	Unit	Existing Qty	Proposed Quantity	Total Quantity after expansion	Disposal method
		Slag	TPD	-	-	32	Agreement with M/s Aggarwal brick works

19.	Waste water generation & its disposal Arrangement in Operation Phase:	Sr. No.	Description	Existing	After Expansion	Mitigation Measures/Remarks		
		1.	Industrial Effluent	NIL	NIL	No generation of industrial effluent		
		2.	Domestic	4.8 KLD	8.8 KLD	STP of 13 KLD will be installed & treated water used in Plantation/Green area		
20.	Details of the block as per CGWA guideline	Non- Notified block						
21.	Breakup of Water Requirements & its source in Operation Phase:	Sr. No.	Description	Existing water demand (KLD)	Proposed water demand (KLD)	Total water demand (KLD)		
		1.	Domestic water demand	6.0	5.0	11.0		
		2.	Make up water demand for cooling purpose	15.0	45.0	60.0		
		Total			21	50	71	
		3.	Green area water demand	45 KLD				
		Sources of water:						
		Sr.No.	Purposes	Source of water				
1.	Domestic	Ground water						
2.	Make-up water demand for cooling	Treated waste water from STP of MC (60 KLD)						
4.	Green area water demand	Ground water						
EDS reply submitted dated 07.10.2020 and 17.10.2020 (Submitted undertaking of getting Treated Waste Water from STP of MC Ludhiana or near by industries and revised CGWA applications dated 17.10.2020 for 71 KLD)								
22.	Water balance chart for Summer, Rainy and Winter seasons	Submitted.						

23.	Rain Water utilization proposal during monsoons	Submitted, proposed storage tank of capacity 6 KLD																																																																			
24.	Rain Water Harvesting proposal outside premises)	<p>Outside:- For RWH, a pond of Raian village is adopted. In the pond, three filling will be done and total 213300m³ water will be recharged. All the waste water of nearby Raian village which will be directed towards the village ponds will be first treated in trenches through CSIR-NEERI's Phytorid waste water treatment technology and overflow water will be discharged into the pond. NOC for RWH from concerned Panchyat has been obtained.</p> <p>Inside:- a tank of 6 KLD is proposed for inside rain water harvesting using roof top of the project site.</p>																																																																			
25.	Blockwise details of no. of trees to be planted in proposed greenbelt area(1500 Trees to be planted @ 10000 Sqm area):	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Description</th> <th style="width: 33%;">Area (m²)</th> <th style="width: 33%;">No. of plants</th> </tr> </thead> <tbody> <tr><td>Green area-A</td><td>55.74</td><td>8</td></tr> <tr><td>Green area-B</td><td>355.28</td><td>53</td></tr> <tr><td>Green area-C</td><td>876.89</td><td>131</td></tr> <tr><td>Green area-D</td><td>100.91</td><td>15</td></tr> <tr><td>Green area-E</td><td>1694.62</td><td>254</td></tr> <tr><td>Green area-F</td><td>35.18</td><td>5</td></tr> <tr><td>Green area- G</td><td>149.95</td><td>22</td></tr> <tr><td>Green area- H</td><td>9.28</td><td>2</td></tr> <tr><td>Green area- I</td><td>178.92</td><td>27</td></tr> <tr><td>Green area- J</td><td>70.83</td><td>11</td></tr> <tr><td>Green area- K</td><td>1389.84</td><td>208</td></tr> <tr><td>Green area- L</td><td>95.76</td><td>14</td></tr> <tr><td>Green area- M</td><td>901.97</td><td>135</td></tr> <tr><td>Green area- N</td><td>230.77</td><td>34</td></tr> <tr><td>Green area- O</td><td>2153.29</td><td>301</td></tr> <tr><td>Green area- P</td><td>17.16</td><td>3</td></tr> <tr><td>Green area- Q</td><td>151.404</td><td>23</td></tr> <tr><td>Green area- R</td><td>32.237</td><td>5</td></tr> <tr><td>Green area- S</td><td>3724.87</td><td>290</td></tr> <tr><td>Total</td><td>10275.52</td><td>1541</td></tr> </tbody> </table> <p>PP submitted undertaking that out of total 1541 nos. of trees to be planted, 200 plants have already been planted like Mango, Safeda, Sagwan, Ashoka, Poplar, Neem and the balance 1341 more tree species of Jamun, Arjun, Ashoka, Sagwan will be planted in coming monsoon season.</p> <p>Reply submitted to observation of SEAC dated 23.10.2020</p>					Description	Area (m ²)	No. of plants	Green area-A	55.74	8	Green area-B	355.28	53	Green area-C	876.89	131	Green area-D	100.91	15	Green area-E	1694.62	254	Green area-F	35.18	5	Green area- G	149.95	22	Green area- H	9.28	2	Green area- I	178.92	27	Green area- J	70.83	11	Green area- K	1389.84	208	Green area- L	95.76	14	Green area- M	901.97	135	Green area- N	230.77	34	Green area- O	2153.29	301	Green area- P	17.16	3	Green area- Q	151.404	23	Green area- R	32.237	5	Green area- S	3724.87	290	Total	10275.52	1541
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	<p>b. Energy saving measures to be adopted within industry:</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">2.</td> <td style="width: 25%;">D.G sets</td> <td style="width: 10%;">KVA</td> <td style="width: 15%;">01 No. – 75 kVA</td> <td style="width: 15%;"></td> <td style="width: 30%;">01 No. – 75 kVA</td> </tr> <tr> <td></td> <td>Any other</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> </table> <p><u>Energy Saving measures:</u></p> <p>a) LEDs will be used in place of CFL b) Solar lights will be used for lighting the streets</p>	2.	D.G sets	KVA	01 No. – 75 kVA		01 No. – 75 kVA		Any other	--	--	--	--																																
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<p>27.</p>	<p>a. EMP Budget details</p> <p>b. Details of Environment Management Cell (EMC) responsible for implementation of EMP</p>	<p>a. EMP budget details :</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Sr. No.</th> <th style="width: 45%;">Title</th> <th style="width: 15%;">Capital Cost Rs. Lakh</th> <th style="width: 35%;">Recurring Cost Rs. Lakh</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Pollution Control during construction stage</td> <td>3.0</td> <td>--</td> </tr> <tr> <td>2.</td> <td>Air Pollution Control (Installation of APCD)</td> <td>142.0</td> <td>--</td> </tr> <tr> <td>3.</td> <td>Water Pollution Control/ STP up-gradation</td> <td>5.0</td> <td>0.50</td> </tr> <tr> <td>4.</td> <td>Noise Pollution Control</td> <td>1.5</td> <td>0.50</td> </tr> <tr> <td>5.</td> <td>Green belt Development</td> <td>5.5</td> <td>2.0</td> </tr> <tr> <td>6.</td> <td>Solid Waste Management</td> <td>10.0</td> <td>--</td> </tr> <tr> <td>7.</td> <td>Environment Monitoring and Management</td> <td>5.0</td> <td>0.5</td> </tr> <tr> <td>8.</td> <td>RWH</td> <td>20.0</td> <td>0.10</td> </tr> <tr> <td>9.</td> <td>Miscellaneous</td> <td>7.0</td> <td>--</td> </tr> <tr> <td></td> <td>Total</td> <td>199.0</td> <td>3.60</td> </tr> </tbody> </table> <p>A duly constituted EMC comprises Owner, Project Incharge and Environment Consultant</p>	Sr. No.	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh	1	Pollution Control during construction stage	3.0	--	2.	Air Pollution Control (Installation of APCD)	142.0	--	3.	Water Pollution Control/ STP up-gradation	5.0	0.50	4.	Noise Pollution Control	1.5	0.50	5.	Green belt Development	5.5	2.0	6.	Solid Waste Management	10.0	--	7.	Environment Monitoring and Management	5.0	0.5	8.	RWH	20.0	0.10	9.	Miscellaneous	7.0	--		Total	199.0	3.60
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<p>28.</p>	<p>Revised CER Activity proposal</p>	<p>The organization will spend Rs. 33.5 lakhs towards the Corporate Environmental Responsibility for undertaking the environmental activities as defined in CER circular issued by MoEF &CC. The amount will be spent in Govt. High School, Village Katani Kalan, District Ludhiana. The details of the activities are as following :-</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 5%;">Sr. No.</th> <th rowspan="2" style="width: 20%;">Activity</th> <th rowspan="2" style="width: 20%;">Environment Aspect</th> <th rowspan="2" style="width: 10%;">Cost (Rs. Lac)</th> <th colspan="2" style="width: 45%;">Timeline</th> </tr> <tr> <th style="width: 15%;">Start</th> <th style="width: 15%;">End</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Science Lab modification</td> <td>Infrastructure</td> <td>4.0</td> <td>May 2024</td> <td>July 2024</td> </tr> </tbody> </table>	Sr. No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline		Start	End	1.	Science Lab modification	Infrastructure	4.0	May 2024	July 2024																														
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5.	Green board for classes	Infrastructure	0.5	June 2024	--
6.	Air conditioner for Science lab and furniture	Infrastructure	3.0	May 2022	--
7.	Two water coolers	Infrastructure	2.0	August 2021	--
8.	Fibre Rain shed (Stage)	Infrastructure	2.0	May 2024	---
TOTAL			33.5		
Reply submitted to observation of SEAC dated 23.10.2020					

Conditions to be imposed in the Environmental Clearance:

I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)

- iv. The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned Punjab Pollution Control Board.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority/competent authority concerned, in case of drawl of groundwater 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 the competent authority.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vii. The project proponent shall comply with the siting criteria, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.
- viii. The project proponent shall comply with the CLU conditions imposed by the competent authority, if any.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at the inlet as well as at the outlet (stack) of each APCD to monitor the SPM concentration with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall install a system to carry out Manual Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. 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 the Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust-generating points including fugitive dust from all vulnerable sources.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly.
- viii. Recycle and reuse of iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration should be ensured.
- ix. The project proponent shall use leak-proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- xii. Design and implementation of the ventilation system for adequate air changes as per the ACGIH document for all tunnels, motor houses, Oil Cellars should be ensured.

III. Water quality monitoring and preservation

- i. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- ii. The project proponent shall adhere to 'Zero Liquid Discharge'.
- iii. Sewage Treatment Plant of capacity 13 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 the maximum possible extent. For this, a pond having volume @ 1,42,200 m³ located in the village Raian shall be adopted for desilting to recharge the water @ 2,13,300 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 into different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to the purification of water and collected into the pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.
- vi. A tank of 6 KLD shall be constructed for inside rain water harvesting using roof top of the project site.
- vii. 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 equal to at least 33% of the plant area with tree species in accordance with SEIAA guidelines. Total 1541 trees to be planted without accounting the shrubs. Out of 1541, 200 trees have already been planted like Mango, Safeda, Sagwan, Ashoka, Poplar, Neem and the balance 1341 more trees of species of Jamun, Arjun, Ashoka, Sagwan will be planted in coming monsoon season.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- v. The project proponent shall carry out the activities apart from CER activities and spent an amount as 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 organization will spend Rs. 33.5 lakhs towards the Corporate Environmental Responsibility for undertaking the environmental activities as

"Proceedings of 194th meeting of SEAC
held on 23.10.2020"

defined in CER circular issued by MoEF &CC. The amount will be spent in Govt. High School, Village Katani Kalan, District Ludhiana towards following CER activities:

Sr. No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline	
				Start	End
1.	Science Lab modification	Infrastructure	4.0	May 2024	July 2024
2.	Separate toilet for boys & girls	Water hygiene & sanitation	2.0	August 2022	September 2022
3.	Fibre Rain shed (Front gate)	Infrastructure	10.0	March 2021	May 2021
4.	Repair & maintenance of boundary wall	Infrastructure	10.0	October 2023	December 2023
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TOTAL			33.5		

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

- ii. The company shall have a well laid down environmental policy duly 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 spend a minimum amount of Rs 199 Lacs towards the capital cost and Rs 3.60 Lacs/annum towards recurring cost including the environmental monitoring cost for the implementation of EMP as proposed in following EMP plan.

Sr. No.	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
1	Pollution Control during construction stage	3.0	--
2.	Air Pollution Control (Installation of APCD)	142.0	--
3.	Water Pollution Control/ STP up-gradation	5.0	0.50
4.	Noise Pollution Control	1.5	0.50
5.	Green belt Development	5.5	2.0
6.	Solid Waste Management	10.0	--
7.	Environment Monitoring and Management	5.0	0.5
8.	RWH	20.0	0.10
9.	Miscellaneous	7.0	--
	Total	199.0	3.60

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

XI. Validity

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

XII. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at

their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition, this shall also be displayed in the project proponent's website permanently.

- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, 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 SEAC 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.

XIII. Additional Specific Conditions decided during the meeting of SEAC:

- i. The project proponent shall install Side Suction Hood followed by Pulse-jet Bag filter with offline cleaning technology as APCD as per the amount indicated in the revised Environment Management Plan. Further, they will upgrade existing APCD of flow rate 36000m³/hr to 75000m³/hr for 1no. proposed induction furnace (15TPH) and will install separate Air Pollution Control Devices (Pulse jet bag filter with offline cleaning technology) for another two proposed Induction Furnaces of 15 TPH capacity each. The flow rate for each APCD will be 75000m³/hr.
- 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 NOC from CGWA for abstraction of ground water @ 71 KLD to meet the requirement of Industrial, domestic & green belt.
- v. The project proponent shall construct rain water tank of capacity 6KLD to store rain water run off generated from the roof top during monsoon season within its premises.
- vi. The project proponent shall dispose of slag @ 32TPD as per the agreement made with the interlocking tile manufacturing units.
- vii. The project proponent shall dispose of APCD dust @ 350TPA to M/s Madhav Alloys Pvt. Ltd.
- viii. 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.
- ix. The project proponent shall provide STP of 13KLD for treatment of waste water & reutilization of the treated water for non- portable use 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.
- x. The project proponent shall reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.
- xi. The project proponent shall monitor the Ground water for heavy metals in addition to routine parameters pre-monsoon and post monsoon. Atleast 3 samples i.e one from within the premises and two from outside the premises of the project shall be taken.
- xii. 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.

- xiii. 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.
- xiv. Whole of the vehicle movement area as well as approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.
- xv. 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.
- xvi. The project proponent shall adopt green technologies to conserve water & energy. Also, provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.
- xvii. The project proponent shall use natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.
- xviii. 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.

Item No.194.19: Application for obtaining Environmental clearance under EIA notification dated 14.09.2006 for expansion and merger of steel Manufacturing unit- II and unit III having existing induction furnaces (1x6 TPH each) with production capacity as 50,400 TPA by addition of (2x12 TPH) induction furnaces and total production of 1,89,000 TPA by M/s Punjab Steel Forging and Agro Industries of steel Ingots/ Billets located at GT Road, Khanna side Mandi Gobindgarh, District Fatehgarh Sahib, Punjab (SIA/PB/IND/42770/2018)

SEAC observed as under:-

1.0 Background

The project proponent has applied for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for expansion and merger of existing steel Manufacturing unit- II and unit III having induction furnaces (1x6 TPH each) with production capacity as 50,400 TPA by addition of (2x12 TPH) induction furnaces and total production of 1,89,000 TPA of M/s Punjab Steel Forging and Agro Industries of steel Ingots/ Billets located at GT Road, Khanna side Mandi GobindGarh, District Fatehgarh Sahib, Punjab. Project Activity is covered under 3(a) & Category 'B1' as per EIA Notification, 2006.

The case was considered by SEAC in the 165th meeting held on 21.04.2018 and was forwarded to SEIAA with recommendation to grant TORs. Accordingly, SEIAA in its 131st meeting held on 04.05.2018 issued TORs. In compliance with the said decision, TORs were issued to the project proponent vide letter no. SEIAA/2018/670 dated 24.05.2018. The public hearing was conducted by PPCB on 27.03.2018.

2.0 Present Case

The project proponent submitted the EIA report. The project proponent has also deposited Rs. 2,24,400/- vide DD NO 088919 deposited dated 20.06.20 as processing fee for obtaining Environmental Clearance against the project cost of Rs. 22.44 Crore. EIA report was scrutinized and EDS were raised online on 11.05.2020 and 16.10.2020, reply to which was submitted by the project proponent on 07.10.2020 and 17.10.2020 respectively. Thereafter, the application for obtaining EC was accepted online on 20.10.2020.

3.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was again considered by the SEAC in its 194th meeting held on 23.10.20 and was attended by the following:

- i) Sh. Bhupinder Singh, General Manager
- ii) Mr. S. Dutta, EIA coordinator from M/s Chandigarh Pollution Testing Lab

Environmental Consultant of the promoter company made the presentation for proposal before SEAC. After the discussions, SEAC made certain observations to which project proponent replied as under:

S. No.	Query	Reply					
1.	Submit Undertaking regarding installation of separate APCD for all proposed three induction furnaces with flow rate	The project proponent submitted undertaking that they will install two separate Air Pollution Control Devices (Pulse jet bag filter with offline cleaning technology) for other two proposed Induction Furnaces of 12 TPH capacity each. The flow rate for each APCD will be 75000 m ³ /hr (taken on higher side).					
2.	Submit revised CER	Project proponent submit the revised CER as under:-					
		S.No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline	
						Start	End
		1.	Disposal of rain water (most urgent)	Water Hygiene & Sanitation	2.00	Mar,2021	April 2021
		2.	Repair of bathrooms	Water Hygiene & Sanitation	2.00	April 2022	May 2022
		3.	New fans requirement	Infrastructure	1.50	May 2022	June 2022
		4.	Furniture for office (table & chairs)	Infrastructure	3.00	March 2023	---
		5.	R.O. system	Infrastructure	1.50	June 2023	---
		6.	Water cooler	Water Hygiene & Sanitation	1.0	June, 2021	---
		7.	Almirah for maintenance of records	Infrastructure	1.5	April, 2023	---
		8.	Repair of submersible	Water Hygiene & Sanitation	1.0	October 2021	November 2021
		9.	Water tanker	Water Hygiene & Sanitation	0.50	July 2021	--
		Total			14.0		

3.	Installation of Online Continuous Emission Monitoring System (OCEMS)	The project proponent agreed to install OCEMS at the inlet as well as at the outlet of APCDs.
----	--	---

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

4.0 Recommendations

After detailed deliberations, SEAC decided to award '**Silver Grading**' to the project proposal under category B1, Activity 3(a) as per EIA notification 2006 and to forward the application to SEIAA with the recommendations to grant Environmental Clearance for expansion and merger of steel Manufacturing unit- II and unit III having existing induction furnaces (1x6 TPH each) with production capacity as 50,400 TPA by addition of (2x12 TPH) induction furnaces and total production of 1,89,000 TPA by M/s Punjab Steel Forging and Agro Industries of steel Ingots/ Billets located at GT Road, Khanna side Mandi Gobindgarh, District Fatehgarh Sahib, Punjab. As per the details mentioned in the Form 2, EIA report, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with following salient features and conditions as under: -

Salient features of the project:

Sr. No	Particulars	Details
1.	Name of the project	M/s Punjab Steel Forging & Agro Industries
2.	Online Proposal No.	SIA/PB/IND/42770/2018
3.	Nature of project	EC for existing & proposed project
4.	a) Category b) Activity	(a) B-1 (b) Metallurgical Industries (ferrous & non ferrous) (8), Schedule 3(a) as per EIA notification-2006
5.	Whether the project falls in the critical polluted area	No
6.	Total Project Cost (In Crores)	Rs. 22.44 Crore
7.	Amount of EC Processing Fee deposited by	Fee amount of Rs. 2,24,000/- has been submitted through Demand Draft number- 088919

	NEFT/DD (Rs. In Lacs)					
8.	Co-ordinates of all the corners of the project site	Point	Latitude	Longitude		
		A	30°40'29.48"N	76°16'19.14"E		
		B	30°40'29.15"N	76°16'22.06"E		
		C	30°40'23.46"N	76°16'21.84"E		
		D	30°40'23.61"N	76°16'18.63"E		
9.	Zoning of master plan	Industrial Zone				
10	Details of valid consent to operate under Air & Water Act	<p>1. Consent to Operate has been obtained from PPCB for Unit-II under the Water (Prevention & Control of Pollution) Act, 1974 valid till 30.09.2023 and the Air (Prevention & Control of Pollution) Act, 1981 valid till 30.09.2023.</p> <p>2. Consent to Operate has been obtained from PPCB for Unit-III under the Water (Prevention & Control of Pollution) Act, 1974 valid till 30.09.2023 and the Air (Prevention & Control of Pollution) Act, 1981 valid till 30.09.2023.</p>				
11	Raw material details:	S. no.	Raw Materials	Existing (TPA)	Proposed (TPA)	Total (TPA)
		1.	MS Scrap	55,234	1,50,770	2,06,004
		2.	Ferro alloys	210	3076	3286
12	Production Capacity details:	Product Name	Existing (TPA)	Additional (TPA)	Total (TPA)	
		Steel Ingots/billets	50,400	1,38,600	1,89,000	
		Rounds, Square, TMT/MS Bars, Angles, Channel, Flats	40,800	1,34,200	1,75,000	
13	Details of major productive machinery/plant:	Sr. No	Description	Existing	Proposed	After Expansion & merger of unit II & unit III
		1.	Induction Furnace	(IF) – 1X6 TPH (Unit-II) & 1X6 TPH (Unit- III)	2x12TPH	2X12TPH, 2X6TPH
		2.	Rolling Mill	01 No.	01 No.	02 No.

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		3.	Concast Machine	---	01 No.	01 No.		
		4.	D.G. Set	01 No. – 80 kVA 01 No. – 350 kVA	---	01 No. – 80 kVA 01 No. – 350 kVA		
		5.	EOT Crane	12 No.	01 No.	13 No.		
14	Manpower requirement	229						
15	Details of Emissions (After expansion)	Sr. No.	Source	Capacity	Chimney Height	Air Pollution Control Device		
		i)	Induction Furnace	2X12TPH, 2X6TPH	30m	Pulse jet bag filter with offline cleaning technology of 75000m ³ /hr flow rate for each proposed (12 TPH IF)		
		ii)	DG set	80KVA-01 No., 350KVA-01 No.	2.5m	Canopy		
As per reply to observation of SEAC submitted dated 23.10.20								
16	Hazardous/Non-Hazardous Waste Generation details and its disposal.	Details	Unit	Hazardous Waste Category	Total Quantity after expansion	Disposal method		
		Used Oil	KL/Annum	5.1	0.02	Agreement with M/s BRS Lubricants Authorized Recyclers/Lubricant within the Industry		
		APCD dust	TPD	35.1	301	Agreement with M/s Madhav alloys Pvt Ltd for metal recovery		
17	Solid Waste generation and its mode of disposal:	Details	Unit	Existing Qty	Proposed Quantity	Total Quantity after expansion	Disposal method	
		Slag	TPD			30	Agreement with M/s	

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						Vohra Industries
18	Waste water generation & its disposal:	Details	Existing Qty (KLD)	Proposed Quantity (KLD)	Total Quantity after expansion (KLD)	Disposal method
		Domestic effluent	4.8	-	9.1	STP of 14KLD will be installed for the treatment of waste water.
19	Details of the block as per CGWA guideline	Notified block				
20	Breakup of Water Requirements & its source in Operation Phase:	Sr. No.	Description	Existing water demand (KLD)	Proposed water demand (KLD)	Total water demand (KLD)
		1.	Domestic water demand	6.0	5.0	11.0
		2.	Make up water demand for cooling purpose	15.0	45.0	60.0
		Total		21	50	71
		3.	Green area water demand	54.34 KLD		
		Sources of water:				
		Sr. No.	Purposes	Source of water		
		1.	Domestic	Ground water		
		2.	Make-up water demand for cooling	Treated waste water from Punjab water supply Department as per agreement		
		4.	Green area water demand	PP has applied to District advisory Committee		
		EDS reply submitted dated 17.10.20				

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		<p>PP submitted that it has already applied to CGWA for 40 KLD water abstraction for which required fee has been submitted to concerned authority and application is under process.</p> <p>Further, the project proponent has also applied to District Advisory Committee for 71 KLD water quantity, the proposal also under process & The project proponent also made an agreement with Pb. Water supply department for 60 KLD water quantity.</p>																																																																																																							
21	Water balance chart for Summer, Rainy and Winter seasons	Submitted.																																																																																																							
22	Rain Water Harvesting proposal	<p>Outside:- For RWH, a pond of Badinpur village is adopted. In the pond, three filling will be done and total 54633m³ water will be recharged. All the waste water of nearby Badinpur village which will be directed towards the village ponds will be first treated in trenches through CSIR-NEERI's Phytorid waste water treatment technology and overflow water will be discharged into the pond. NOC for RWH from concerned Panchyat has been obtained.</p> <p>Inside:- a tank of 12 KLD is proposed for inside rain water harvesting using roof top of the project site.</p>																																																																																																							
23	Blockwise details of no. of trees to be planted in proposed greenbelt area(1500 Trees to be planted @ 10000 Sqm area):	<table border="1"> <thead> <tr> <th>Description</th> <th>Area (m²)</th> <th>No. of plants</th> <th colspan="4"></th> </tr> </thead> <tbody> <tr> <td>Green area-A</td> <td>6749.68</td> <td>1012</td> <td colspan="4"></td> </tr> <tr> <td>Green area-B</td> <td>1986.26</td> <td>298</td> <td colspan="4"></td> </tr> <tr> <td>Green area-C</td> <td>371.6</td> <td>56</td> <td colspan="4"></td> </tr> <tr> <td>Green area-D</td> <td>161.79</td> <td>25</td> <td colspan="4"></td> </tr> <tr> <td>Green area-E</td> <td>190.45</td> <td>28</td> <td colspan="4"></td> </tr> <tr> <td>Green area-F</td> <td>141.21</td> <td>21</td> <td colspan="4"></td> </tr> <tr> <td>Green area- G</td> <td>1454.98</td> <td>218</td> <td colspan="4"></td> </tr> <tr> <td>Green area- H</td> <td>148.6</td> <td>22</td> <td colspan="4"></td> </tr> <tr> <td>Green area- I</td> <td>130.0</td> <td>19</td> <td colspan="4"></td> </tr> <tr> <td>Green area- J</td> <td>93.0</td> <td>14</td> <td colspan="4"></td> </tr> <tr> <td>Green area- K</td> <td>115.38</td> <td>17</td> <td colspan="4"></td> </tr> <tr> <td>Green area- L</td> <td>538.83</td> <td>81</td> <td colspan="4"></td> </tr> <tr> <td>Total</td> <td>12081.78</td> <td>1811</td> <td colspan="4"></td> </tr> </tbody> </table>						Description	Area (m ²)	No. of plants					Green area-A	6749.68	1012					Green area-B	1986.26	298					Green area-C	371.6	56					Green area-D	161.79	25					Green area-E	190.45	28					Green area-F	141.21	21					Green area- G	1454.98	218					Green area- H	148.6	22					Green area- I	130.0	19					Green area- J	93.0	14					Green area- K	115.38	17					Green area- L	538.83	81					Total	12081.78	1811				
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	d. Energy saving measures:	2.	D.G sets	KVA	--	80,350	80,350
		b. <u>Energy Saving measures:</u> a) LEDs will be used in place of CFL b) Solar lights will be used for lighting the streets					
25	EMP Budget details	b. EMP budget details :					
		Sr. No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh		
		1	Pollution Control during construction stage	2.0	---		
		2	Air Pollution Control (Installation of APCD)	84.0	10.0		
		3	Water Pollution Control/ STP up-gradation	10.0	0.5		
		4	Noise Pollution Control	1.0	0.50		
		5.	Green belt Development	4.0	2.0		
		5	Solid Waste Management	5.0	0.5		
		6	Environment Monitoring and Management	5.0	0.5		
		7	Occupational Safety & Health	5.0	0.5		
		8	RWH	5.0	0.5		
		9	Miscellaneous	3.0	---		
			TOTAL	124.0	15.0		
26	Details of the activities proposed to be covered under CER be provided in below format:	The management of company has earmarked Rs. 14.0 Lakhs towards CER. Rs. 14 Lakhs will be spent in Govt. Elementary School, Mughal Majra, Mandi Gobindgarh. However, the following activities have been proposed to be covered under CER:					
		S.No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline	
						Start	End
		1.	Disposal of rain water (most urgent)	Water Hygiene & Sanitation	2.00	Mar,2021	April 2021
		2.	Repair of bathrooms	Water Hygiene & Sanitation	2.00	April 2022	May 2022
		3.	New fans requirement	Infrastructure	1.50	May 2022	June 2022

	4.	Furniture for office (table & chairs)	Infrastructure	3.00	March 2023	---
	5.	R.O. system	Infrastructure	1.50	June 2023	---
	6.	Water cooler	Water Hygiene & Sanitation	1.0	June, 2021	---
	7.	Almirah for maintenance of records	Infrastructure	1.5	April, 2023	---
	8.	Repair of submersible	Water Hygiene & Sanitation	1.0	October 2021	November 2021
	9.	Water tanker	Water Hygiene & Sanitation	0.50	July 2021	--
	Total			14.0		

Conditions to be imposed in the Environmental Clearance:

I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned Punjab Pollution Control Board.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority/competent authority concerned, in case of drawl of groundwater 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 the competent authority.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

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

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at the inlet as well as at the outlet (stack) of each APCD to monitor the SPM concentration with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall install a system to carry out Manual Ambient Air Quality monitoring for parameters relevant to the main pollutants released (e.g. 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 the Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust-generating points including fugitive dust from all vulnerable sources.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly.

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

III. Water quality monitoring and preservation

- i. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- ii. The project proponent shall adhere to 'Zero Liquid Discharge'.
- iii. Sewage Treatment Plant of capacity 14 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 the maximum possible extent. For this, a pond having volume @ 36,421.8 m³ located in the village Badinpur shall be adopted for desilting to recharge the water @ 54, 633 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 into different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to the purification of water and collected into the pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.

- 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 equal to at least 33% of the plant area with tree species in accordance with SEIAA guidelines. Total 1811 trees to be planted without accounting the shrubs.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- v. The project proponent shall carry out the activities apart from CER activities and spent an amount as 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 organization will spend Rs. 14 lakhs in Govt. Elementary School, Mughal Majra, Mandi Gobindgarh towards the Corporate Environmental Responsibility for undertaking the environmental activities as defined in CER circular issued by MoEF & CC following CER activities:

S.No.	Activity	Environment Aspect	Cost (Rs. Lac)	Timeline	
				Start	End
1.	Disposal of rain water (most urgent)	Water Hygiene & Sanitation	2.00	Mar,2021	April 2021
2.	Repair of bathrooms	Water Hygiene & Sanitation	2.00	April 2022	May 2022
3.	New fans requirement	Infrastructure	1.50	May 2022	June 2022
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8.	Repair of submersible	Water Hygiene & Sanitation	1.0	October 2021	November 2021
9.	Water tanker	Water Hygiene & Sanitation	0.50	July 2021	--
Total			14.0		

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

- ii. The company shall have a well laid down environmental policy duly 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 spend a minimum amount of Rs 194 Lacs towards the capital cost and Rs 15 Lacs/annum towards recurring cost including the environmental monitoring cost for the implementation of EMP as proposed in following EMP plan.

Sr. No	Title	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh
1	Pollution Control during construction stage	2.0	---
2	Air Pollution Control (Installation of APCD)	84.0	10.0
3	Water Pollution Control/ STP up-gradation	10.0	0.5
4	Noise Pollution Control	1.0	0.50

5.	Green belt Development	4.0	2.0
5	Solid Waste Management	5.0	0.5
6	Environment Monitoring and Management	5.0	0.5
7	Occupational Safety & Health	5.0	0.5
8	RWH	5.0	0.5
9	Miscellaneous	3.0	---
	TOTAL	124.0	15.0

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

XIV. 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

XV. 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 SEAC 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.

XVI. Additional Specific Conditions decided during the meeting of SEAC:

- i. The project proponent shall install Side Suction Hood followed by Pulse-jet Bag filter with offline cleaning technology as APCD as per the amount indicated in the revised Environment Management Plan. Further, shall install two separate Air Pollution Control Devices (Pulse jet bag filter with offline cleaning technology) for additional two proposed Induction Furnaces of 12 TPH capacity each. The flow rate for each APCD will be 75000 m³/hr.
- 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 NOC from CGWA for abstraction of ground water @ 71 KLD to meet the requirement of Industrial, domestic & green belt.
- v. The project proponent shall construct rain water tank of capacity 12 KLD to store rain water run off generated from the roof top during monsoon season within its premises.
- vi. The project proponent shall dispose of slag @ 30TPD as per the agreement made with the M/s Vohra Industries.
- vii. The project proponent shall dispose of APCD dust @ 301 TPA to M/s Madhav Alloys Pvt. Ltd.

- viii. 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.
- ix. The project proponent shall provide STP of 14 KLD for treatment of waste water & reutilization of the treated water for non- portable use 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.
- x. The project proponent shall monitor the Ground water for heavy metals in addition to routine parameters pre-monsoon and post monsoon. Atleast 3 samples i.e one from within the premises and two from outside the premises of the project shall be taken.
- xi. The project proponent shall reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.
- xii. 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.
- xiii. 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.
- xiv. Whole of the vehicle movement area as well as approach road to the gate /weighing bridge shall be paved with pucca/metalled / cement concrete road to control the dust emissions expected from the vehicle movement.
- xv. 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.
- xvi. The project proponent shall adopt green technologies to conserve water & energy. Also, provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.
- xvii. The project proponent shall use natural gas (if available) as substitute fuel wherever possible in the existing industry/ for the expansion project.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.

Item No.194.20: Application for issuance of TORs for addition of 6KLD Malt Spirit plant in existing BEER manufacturing unit located at Village Baghora, Tehsil Ghanour, District Patiala, Punjab by M/s Amara Breweries Pvt Ltd (SIA/PB/IND/57092/2020)

1.0 Present Case:

The project proponent has applied for issuance of TORs to M/s Amara Breweries Pvt Ltd for addition of 6KLD Malt Spirit plant in existing BEER manufacturing unit located at Village Baghora, Tehsil Ghanour, District Patiala, Punjab. Project is covered under Activity 5(g) & 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. 2,07,725/- (25% of the total fee) vide NEFT no. B1NH20272110380 dated 28.09.2020. The case was accepted on 20.10.2020. Environmental Engineer, PPCB, RO, Patiala was requested vide email dated 13.10.20 to send the construction status of the project site.

2.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting held on 23.10.20 and the same was attended by the following:

- i) Sh. Prabhat Chand Tripathi, Plant Head
- ii) Mr. S. Dutta, EIA coordinator from M/s Chandigarh Pollution Testing Lab

SEAC was apprised that report from the PPCB has been received vide email dated 23.10.2020 wherein it was reported that the site of the subject cited industry was visited by AEE of Regional Office, Patiala on 19/10/2020 and the status reported as under: -

1. The industry is large scale unit and was granted consent to operate of the Board under the Water (Prevention and Control of Pollution) Act, 1974, valid upto 31/03/2021 and Air (Prevention and Control of Pollution) Act, 1981, valid upto 31/03/2024 for the manufacturing Lager (Mild & Strong Bear) @ 1666666.66 Ltr/day by using Malt @ 35 TPD, Rice @ 5 TPD, Sugar @ 5 TPD and Hops @ 50 Kg/day as raw materials.
2. No construction activity was going on at site. However, the representative of the industry informed that the industry will use existing empty cans storage godown only for the proposed plant. The empty cans (for beer bottling) was found stored in the said godown.
3. No new machinery was lying/installed at site for the proposed project.
4. Earlier, the industry was visited by the officer of the Board on 06/08/2020 and found violating the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and conditions of the consent to operate granted to it under the said Act. The action against the industry under the provisions of Water (Prevention and Control of Pollution) Act, 1974 is in process.
5. The unit was established and operating its existing plant since July, 2019. The change of land use of the unit was considered at Govt. Level and permission for manufacturing of Beer at M/s Amara Breweries Private Limited (Manufacturing of

Beer) at Vill. Baghora, Tehsil Ghanour, District Patiala was granted vide letter issued by the Department of Town & Country Planning, Punjab bearing memo no. 7094 dated 20/11/2018. However, the industry is required to obtain revised permission/ CLU from the competent authority for addition of the proposed product. Further, the industry has not submitted classification of land as per notified Master Plan, Rajpura from the Competent Authority.

6. The industry in its pre-feasibility report has given total existing water consumption to the tune 530 KLD and generation of the wastewater to the tune 278 KLD, whereas, as per the consent granted to the industry, the existing water consumption of the unit is 670 KLD and generation of wastewater @ 500 KLD. Further, the industry has mentioned that there will be requirement of additional water in the proposed project to the tune 100 KLD and additional generation of effluent @ 80 KLD, which will be treated in the existing ETP installed by it. However, the industry has not given any adequacy report of its existing ETP to cater additional load. Further, the concentration of the BOD, COD & TSS in the effluent to be generated from the malt plant will be more than 10 times in comparison to the effluent generated from the existing brewery. Therefore, proper technical report regarding adequacy of the ETP with the parameters at the outlet of the ETP to be achieved after this additional load is required to be submitted by the industry. Also, the industry has proposed the addition in the generation of the domestic wastewater @ 5 KLD and the total domestic wastewater will be 25 KLD after proposed expansion. The industry has proposed to treat this additional wastewater in its existing STP, but has not submitted any adequacy report in this regard.
7. There will be two distillation pot in which distillation of the wash being carried out. The effluent generated from the process will be transferred to the existing ETP installed by the industry.
8. The industry has proposed to install one additional cooling tower of capacity 350 TR but has not given any disposal arrangement of the cooling tower blow down to be generated.
9. The industry has not given any proposal for installation of online effluent and emission monitoring system in compliance of the directions issued by the CPCB dated 24/07/2015 for distilleries.
10. The industry has not proposed to install any new boiler/ D.G. set in its expansion project.
11. There will be generation of wet grain spillage/sludge from the expansion project that has proposed to sold out as DWGS to farmers as animal feed. Further, the additional ETP sludge @ 5 Kg/day will be generated, however no detailed proposal for disposal of the same has been given in the pre-feasibility report.

SEAC observed that the existing unit is in the violation of the provision of Water Act, 1974 and action is under process. Environmental consultant requested to impose additional TORs with respect to the observations made by the PPCB. He ensured that compliance of the same will be made and the action taken report shall be submitted at the time of submitting application of Environmental Clearance.

SEAC accepted the request of the project proponent and allowed him to present the salient features of the project. Environment Consultant of the promoter company presented the salient features as under:-

Sr.No	Description	Details	
1.	Online Proposal No.	SIA/PB/IND2/57092/2020	
2.	Name and Location of the project	M/S Amara Breweries Pvt Limited Village Baghora Tehsil Ghanour District Patiala	
3.	Nature of project	Fresh EC for addition of 6KLD Malt Spirit plant in existing Beer Manufacturing unit	
4.	a) Category b) Activity	(a) B1 (b) Distilleries, Schedule 5(g) as per EIA notification-2006	
5.	Details of Consent to operate under (Air/Water Act) of existing project	Consent to Operate under the Air (Prevention & Control of Pollution) Act, 1981; valid till 31.03.2024 and the Water (Prevention & Control of Pollution) Act, 1974; valid till 31.03.2021	
6.	Existing production Capacity	Manufacturing of Beer @ 150 KLD	
7.	Whether the project is located near to PLPA area or fall in the PLPA area	PP submitted an undertaking that the project site is neither located near to PLPA area nor fall in PLPA area.	
8.	Co-ordinates of the project site (Latitude & Longitude) :	Latitude	Longitude
		31°21'15.90"N	76°36'01.18"E
		31°21'10.33"N	76°36'04.38"E
		31°21'09.72"N	76°36'09.57"E
		31°21'14.71"N	76°36'11.27"E
9.	Classification/Land use pattern and details of CLU	Agriculture land and PP submitted permission for CLU vide memo no. 7094 dated 20.11.2018 for area 7.049 Acre	
10.	Details proof of land including Khasra no.	Submitted following Khasra nos as per CLU .- 87/1(1-8), 1174/88(0-15), 1177/88(3-5), 1228/89(1-16), 1330/1229/89(0-3), 1384/83(0-2), 84(1-14), 87/1(2-12), 1385/83(1-1), 1388/86/1(3-14), 80(3-14), 81(4-13), 1250/90(3-0), 1338/83(2-17), 1390/1176/91(3-4)	
11.	List of Directors and names of other persons responsible for	Submitted	

	managing day to day affairs of the project.																																																			
12.	No. of Working Days/Annum	330 days																																																		
13.	No. of working Hrs/Day	21 hrs/day																																																		
14.	Manpower (After expansion)	250 persons																																																		
15.	Raw Material requirement:																																																			
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	4	Domestic requirement	water	20 KLD	5 KLD	25 KLD
	TOTAL			530 KLD	100 KLD	630KLD
Sources of water: Surface water, PP has submitted agreement made with Department of water resources Punjab for getting surface water from Udaipur minor distributary adjoining unit of the Brewery						
20.	Details of Effluent					
	S. No.	PARTICULARS		EXISTING	PROPOSED	TOTAL
	1	Process Water generation		40 KLD	62 KLD	102 KLD
	2	DM/RO maintenance/rejects		50 KLD	0	50KLD
	3	Cooling Water		25 KLD	0	25 KLD
	4	Boiler blow down		25 KLD	0	25 KLD
	5	Bottle/Cane washing		120 KLD	14 KLD	134 KLD
	6	Domestic water		18 KLD	4 KLD	22 KLD
	TOTAL			278 KLD	80 KLD	358 KLD
Process effluents from existing process & from proposed process will be treated by existing ETP having capacity 1000KLD and domestic wastewater stream is being/will be treated by existing STP						
21.	Details of Emissions					
	Sr. No.	Source	Capacity (TPH)	Chimney Height (m)	Details of existing & proposed Air Pollution Control Device	
	i)	Boiler	1X12 TPH	30	ESP	
	ii)	D.G. set	750 kVA	6.5m	----	
22.	Details of Hazardous waste Generation :					
	Details		Existing	Proposed	Total	
	ETP Sludge		50KG/DAY	5KG/DAY	55KG/DAY	
	Used Oil		200Ltr/Day	NIL	200Ltr/Day	
23.	Solid waste generation :					
	Details		Existing	Proposed	Total	
	Wet grain stillage		0.5TPD	0.1TPD	0.6TPD	
	Fly Ash		6TPD	NIL	6TPD	
24.	Memorandum of Association			Submitted		

3.0 Recommendations

After detailed deliberations, it was decided to recommend the case to SEIAA for issuance of Terms of Reference for preparing Environmental Impact Assessment (EIA) report to the project proponent by including the observations of PPCB Report as conditions of TOR with details as under: -

A. STANDARD TERMS OF REFERENCE

1) Executive Summary

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 material 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, 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 (quantative) from raw material to products to be provided.
- (ix) Hazard identification and details of proposed safety systems.
- (x) Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certifies copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30.05.2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, 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 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.
- (ii) A topo 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, plant area, greenbelt area, utilities etc. If located within an Industrial area /Estate/Complex, layout of Industrial area indicating location of unit within the Industrial area/Estate.
- (vii) Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- (viii) 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)
- (ix) 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.
- (x) Geological features and Geo-hydrological status of the study area shall be included.
- (xi) 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)
- (xii) Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- (xiii) 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, if yes give details.
- (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 study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- (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 Modelling 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 modelling 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- in case of discharge in water body.
- (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 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 E(P) 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) Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers.
- (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) 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,
- (iv) Annual report of the health status of workers with special reference to Occupational Health and Safety.

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) 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.
- 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 point wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR DISTILLERIES

- 1) List of existing distillery units in the study area along with their capacity and sourcing of raw material.
- 2) Number of working days of the distillery unit.
- 3) Details of raw materials such as molasses/grains, their source with availability.
- 4) Details of the use of steam from the boiler.
- 5) Surface and Ground water quality around proposed spent wash storage lagoon, and compost yard.
- 6) Plan to reduce spent wash generation within 6-8 KL/KL of alcohol produced.
- 7) Proposed effluent treatment system for molasses/grains based distillery (spent wash, spent less, condensate and utilities) as well as domestic sewage and scheme for achieving zero effluent discharge (ZLD).
- 8) Proposed action to restrict fresh water consumption within 10 KL/KL of alcohol production.
- 9) Details about capacity of spent wash holding tank, material used, design consideration. No. of piezometers to be proposed around spent wash holding tank.
- 10) Action plan to control ground water pollution.
- 11) Details of solid waste management including management of boiler ash, yeast, etc. Details of incinerated spent wash ash generation and its disposal.
- 12) Details of bio-composting yard (if applicable).
- 13) Action plan to control odour pollution.
- 14) Arrangements for installation of continuous online monitoring system (24x7 monitoring device)

Additional SPECIFIC TERMS OF REFERENCE

1. Submit the compliance status of the observations made by the PPCB due to which action against the industry under the provisions of Water (Prevention and Control of Pollution) Act, 1974 was under process.
2. Submit the classification of land as per the notified master plan of Rajpura from the competent authority.
3. Submit the status of revised permission/ CLU from the competent authority for addition of the proposed product.

4. Examine the reasons for the excess concentration of the BOD, COD & TSS in the effluent generated from the existing brewery.
5. Submit proper technical report regarding adequacy of the ETP with the parameters at the outlet of the ETP to be achieved after considering additional load.
6. Submit adequacy report of existing STP for the proposed addition in the generation of the domestic wastewater @ 5 KLD. Total domestic wastewater will be 25 KLD after proposed expansion.
7. Submit disposal arrangement of the cooling tower blow down to be generated as industry proposed to install one additional cooling tower of capacity 350 TR.
8. Submit proposal for installation of online effluent and emission monitoring system in compliance of the directions issued by the CPCB dated 24/07/2015 for distilleries.
9. Submit proposal for disposal of ETP sludge @ 5 Kg/day as given in the pre-feasibility report.

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.

Item No 194.21: Application for amendment in Environmental Clearance granted under EIA notification dated 14.09.2006 for the establishment of the commercial project namely Raksha Business Centre at village- Lohgarh, Tehsil- Dera bassi, District- Mohali to M/s ABC Sites Ltd. (SIA/PB/MIS /167917 /2020).

The project proponent was granted Environmental Clearance for the establishment of the commercial project namely Raksha Business Centre at village- Lohgarh, Tehsil- Dera bassi, District- Mohali. The said environmental Clearance was granted for total land area of 7876.09 sqm and total built up area of 23318 sqm. The project consisted of hotel having 147 rooms, shops, offices and other commercial activities.

Now, the project proponent has applied for obtaining amendment in the Environmental Clearance granted to it. The project proponent deposited the processing fee Rs. 73,242. The project proponent submitted that earlier EC was granted for the built up area 23318 sqm but the actual area inclusive of basement comes out to be 36621.22 sqm. No other amendment is sought by the project proponent and all other details of the EC are correct. The project proponent has submitted the approved layout plan along with other documents and has deposited Rs. 73242.44 vide NEFT.

1.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting and the same was attended by the following:

- (i) Sh. R.K. Mittal from the promoter company.
- (ii) Sh. S. Dutta from CPTL EIA Mohali.

Environmental Consultant of the promoter company submitted that the actual built-up area is 36621.22 sqm inclusive of basement and other area as per approved plan. However, the EC was obtained for 23318 sqm only without taking into account the basement area and other area.

To a query of SEAC regarding no change in the approved plan by the competent authority, project proponent submitted an undertaking to the effect that there is no change in the approved plan, which was taken on record by the SEAC.

Recommendations

After detailed deliberations, SEAC decided to forward the case with recommendations to amend the earlier granted EC issued vide letter number 2815 dated 28.06.2016 with the change in the built-up area from 23318 sqm to 36621 sqm with the same conditions. The other contents of the EC will remain the same.

Item No 194.22: Application for Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of a Group housing project namely "M/s Sushma Belleza" located at Village – Nagla, Zirakpur, SAS Nagar (Punjab) (SIA/PB/MIS/153794/2020)

1.0 Present case:

The project proponent has filed an application for obtaining Environment Clearance under EIA notification, 2006 for establishment of a Group housing project namely "Sushma Belleza" located at Village – Nagla, Zirakpur, SAS Nagar (Punjab) with a proposed built up area as 1,27,223 Sqm. The project is covered under Activity 8(a) & Category 'B2' as per EIA notification-2006.

The project proponent submitted the Form I, 1A and other additional documents. They have also deposited the processing fee amounting to Rs.2,54,448/- through NEFT (Fee has been submitted through with RTGS no. HDFCR52020052080322211 dated 20.05.2020).

The application was scrutinized & Essential Details were sought on 08/06/2020, 14/07/2020, 28/07/2020, 30/07/2020, 03/08/2020, 19/08/2020 to which project proponent replied dated 02/07/2020 15/07/2020 28/07/2020 30/07/2020 11/08/2020 & 31/08/2020 respectively. The EDS reply was submitted on 31.08.2020.

Environmental Engineer, PPCB, RO, Mohali was requested vide email dated 08.09.2020 to send the construction status report. A reminder was also given vide email dated 21.09.2020. However, the report was not sent by PPCB till the time of SEAC meeting.

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

The meeting was attended by Sh. Deepak Gupta, Environmental Advisor of the company and Mr. Sital Singh, Environmental Consultant, M/s CPTL, Mohali.

Environmental Consultant of the promoter company was not allowed to make presentation for the proposal before SEAC as the construction status report was not sent by PPCB till the time of the meeting.

Further, SEAC observed that the application submitted by the project proponent/consultant is incomplete and is required to submit the following :

- i. Complete checklist and indexing of the application along with document submitted thereof.
- ii. Land use pattern of the project
- iii. Information against the Activity 1.1 of Form-1 i.e. "Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)"

- iv. Submission of approved layout plan of M/s Shipra Estate Ltd with super imposing the plot area of Sushma Belleza & Sushma Metropol on it
- v. Revised proposal for the disposal of treated waste water as the earlier proposal submitted was not acceptable.
- vi. Rain Water Harvesting proposal with sections of the recharge pits, maintenance plan and details of ponds adopted and its calculation along with NOC of the Gram Panchayat.
- vii. Details of quantity of Hazardous Waste, E-Waste & Sludge generation and its disposal arrangement
- viii. Action plan for green belt development including the capital cost and recurring expenses.
- ix. Complete proposal of CER activities indicating the cost and time schedule to complete the activities as per OM dated 01.05.2018.
- x. Complete Proposals (RWH, CER & EMP) with the applications separately from the Power Point Presentation.

SEAC observed that Environmental Consultant of the promoter company left out the various column blank with answers "No" without justifying any reason in Form-I. However, the reason for the same is required to be provided.

3.0 Recommendations

After detailed deliberations, SEAC decided to defer the case till the construction status report from PPCB is received & the project proponent submits 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 same was annexed as Annexure-C of the agenda.

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

The meeting was attended by Sh. Bupinder Singh, GM Corporate affairs, Sh. Deepak Gupta, Environmental Advisor of the company and Sh. S. Dutta, Environmental Consultant, M/s CPTL, Mohali.

The SEAC was apprised that report form the PPCB has been received vide email dated 23.10.2020 and it was reported that the site of the subject cited project was visited by AEE of Regional Office SAS Nagar on 08.09.2020 and the status is as under: -

1. The project is opposite another construction project i.e. Sushma Valencia. Further, another proposed commercial project Sushma Metropol is on one side of the project and the rest of the boundaries of the project are alongside agriculture fields. The promoter company has not carried out any construction work at the site and the site is covered with wild plantation.

2. As per the Master Plan Zirakpur, 2031, the site appears to fall in agriculture zone, however, the exact landuse pattern of the area needs to be confirmed from the concerned authority.
3. There is no air polluting industry such as grinding units /saila plants/rice sheller/hot mix plants/stone crushers/cement plant/brick kiln within the 500m radius of the project. Further there is no air pollution industry within 500m of the project site. Therefore, the site of the project is conforming to the sitting guidelines laid down by the Govt. of Punjab, Department of Science Technology and Environment vide order dated 25/07/2008 as amended on 30/10/2009.
4. The project proponent has not submitted any proposal regarding pollution control measures to be adopted in the projects as such no comments can be given in this regard. However, it is pertinent to mention here that Sukhna Choe, a natural water body flows just adjacent to the project boundary and the project proponent shall develop green area as per norms along the boundary of the Sukhna Choe. This may also be the incorporated in the site/building plan submitted by the project proponent. Moreover, the project proponent shall install STP in opposite directions to the Sukhna Choe.

Before allowing the presentation, SEAC perused the reply submitted by the Environment Consultant annexed with the agenda and it was observed that observations of the previous meeting has been attended.

Environmental Consultant of the promoter company presented the salient features of the project as under:

Sr.no.	Description	Details		
1.	Name & Location of the project	Sushma Belleza, Zirakpur		
2.	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	8 (a)		
3.	Co-ordinates of all the corners of the project site as per following:	Point	Latitude	Longitude
		A	30,37'32.21"N	76,50'00.47"E
		B	30,37'30.53"N	76,50'00.79"E
		C	30,37'27.93"N	76,50'07.81"E

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held on 23.10.2020"

		D	30,37'31.00"N	76,50'11.78"E	
		E	30,37'37.00"N	76,50'13.64"E	
		F	30,37'36.37"N	76,50'07.62"E	
4.	Copy of the Master plan duly marked with the project site	Submitted			
5.	Copy of duly signed Layout plan	Conceptual Plan Submitted			
6.	Pre-feasibility report as per Ministry of Environment & Forests, Circular dated 30.12.2010.	NA as this is a construction project.			
7.	Proof of ownership of land mentioning Khasra no. & ownership details (Latest Jamabandi or Registry)	Khasra No of the land 220,221,222,223,224,225,226,227,228,229,230,235,286,289,290/1, 291,291/1,292,293 ownership			
8.	Details as per CLU certificate like Khasra no., Project area (Existing & after expansion)	Khasra No.	Area details (In Sqm)	Ownership/ Lease	
		220,221,222,223,224, 225,226,227,228,229, 230,235, 286,289,290/1, 291,291/1,292,293	46248.24	Ownership	
9.	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 Memorandum of Article			

10	Proposed ToRs (based on the standard ToRs)	NA as the built up area is less than 150000 sqm		
11	Does it attract the general condition? If yes, please specify	NA as it is a construction project		
12	Whether the proposal involves approval/clearance under the Forest (Conservation) Act, 1980	No, as the project is coming on master plan road		
13	Does the project cover under PLPA, 1900	NO		
14	If the project falls within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary. If yes, a. Name of eco-sensitive area/ National park/Wild Life Sanctuary and distance from the project site. b. Status of clearance from the National Board for Wild Life (NBWL).	NO NA		
15	Classification/Land use pattern as per Master Plan	CLU has been issued by department of town & country planning vide letter no 161 CTP(PB) SP- 432 (m) dated 11-01-2010		
16	Cost of the project	75 Cr		
17	Processing Fee details (Amount/NEFT no./dated)	Rs 254448/- through RTGS vide No HDFCR52020052080322211 Dated 20 th May 2020		
18	Detail of various components			
	S.no.	Description	Particulars	Unit
	1	Plot Area (11.42 acres)	46248.24	SQM
	2	Proposed Built Up Area	127592.43	SQM

3	Number of Building Blocks	36 BLOCKS 32 LOWRISE 02 HIGHRISE 01 CLUB 01CONVENIENT SHOPS	NOS
4	Total no of Saleable DU's	465	NOS
5	Max Height of Building	59.6	M
6	Max No of Floors	B+G+19	NOS
7	Expected Population	3580	PERSONS
8	Permissible Ground Coverage Area (30%)	13874.47	SQM
9	Proposed Ground Coverage Area (28.6 %)	11747.84	SQM
10	Permissible FAR Area ()	120774	SQM
11	Proposed FAR Area ()	79863.79	SQM
12	Non-FAR & Other areas	47694.09	SQM
13	Proposed Built Up Area	127592.43	SQM
14	Total Water Requirement	314	KLD
15	Freshwater requirement	209	KLD
16	Wastewater Generation	251	KLD
17	Proposed STP Capacity	400	KLD
18	Treated Water Available for Reuse	236	KLD
19	Recycled Water	331	KLD
20	Surplus treated water	95	KLD
21	Rain Water Harvesting Potential	65.94	CUM
22	Proposed Total Parking	1091	

	23	Surface Parking	109	ECS				
	24	Basement Parking	982	ECS				
	25	Required Green Area (25%) organised Green Area (15%)	11562.06 6937.23	SQM				
	26	Proposed Green Area (29.7%) organised Green Area (15.25%)	13744.03 7051.13	SQM				
	27	Municipal Solid Waste Generation	716	KG/DAY				
	28	Quantity of E-Waste Generation- Kg/Day		KG/DAY				
	29	Quantity of Hazardous Waste Generation		LTS/DAY				
	30	Quantity of Sludge Generated from STP	465 kg approx	KG/DAY				
9.	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)	Into MC Sewer	
	1.	Summer	209	-	105	114	7	236
	2.	Winter	209	-	105	38	83	236
	3.	Rainy	209	-	105	11	120	236
	S.No.	Description	Source of water					
	1.	Domestic	Borewell					
	2.	Flushing purposes	Treated water from STP					
	3.	Green area	Treated water from STP					
20	Details of acknowledgement of application filed to CGWA /Competent Authority for obtaining permission for abstraction of ground water		Submitted a copy of application filled for abstraction of ground water to CGWA for 209 KLD Dated 19/05/2020					
21	Specify block of project site as per CGWA norms (Notified/Non Notified)		Non Notified					

22	Details of Wastewater generation, Treatment facility & its Disposal arrangements in Construction Phase	10 KLD and after treatment through septic tank it will be used for green area																
23	Details of Wastewater generation, Treatment facility & its Disposal arrangements in Operation Phase and if waster water being disposed in MC sewer then also mention the details of NOC from competent authority	<p>Total wastewater generation will be 251 KLD which will be treated in proposed STP of 400 KLD based on SBR technology to be installed within project premises. The details of the breakup of the utilization of wastewater is as under:-</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Season</th> <th>Flushing (KLD)</th> <th>Green area (KLD)</th> <th>MC Sewer (KLD)</th> </tr> </thead> <tbody> <tr> <td>Summer</td> <td>105</td> <td>114</td> <td>7</td> </tr> <tr> <td>Winter</td> <td>105</td> <td>38</td> <td>83</td> </tr> <tr> <td>Monsoon</td> <td>105</td> <td>11</td> <td>120</td> </tr> </tbody> </table>	Season	Flushing (KLD)	Green area (KLD)	MC Sewer (KLD)	Summer	105	114	7	Winter	105	38	83	Monsoon	105	11	120
Season	Flushing (KLD)	Green area (KLD)	MC Sewer (KLD)															
Summer	105	114	7															
Winter	105	38	83															
Monsoon	105	11	120															
24	Details of Rainwater recharging/Harvesting (m ³ /hr) proposal & technology proposed to be adopted	18298 Cum/year																
25	Details of Solid waste generation (Qty), treatment facility and its disposal arrangement	932 Kg/day and a mechanical composter has been purposed.																
26	Details of Hazardous Waste & E- Waste generation (Qty), Treatment facility and its disposal arrangement	Used oil 50 ltr/year and 2 batteries as HW which will be sold to authorized vendors of CPCB. E waste will be sold to authorized Vendors																
27	Detail of DG sets	1X1010 and 1 x 240 KVA DG Sets																
28	Air pollution control device details	DG sets with adequate height of Satck of 3.5 mtrs																
29	Energy Requirements & Saving	Energy required 2500 KW Solar Light 20 No = 30 KWHD • Common area (500) lights replaced with LED = 270KWHD • Total Energy saved/day 30+270 = 300 KWHD																

30	Details of Environmental Management Plan	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sr.No</th> <th style="width: 35%;">Environmental Protection Measures</th> <th style="width: 15%;">Capital Cost Rs. Lakh</th> <th style="width: 15%;">Recurring Cost Rs. Lakh</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Construction phase</td> <td style="text-align: center;">157.50</td> <td style="text-align: center;">14.90</td> <td colspan="2"></td> </tr> <tr> <td style="text-align: center;">2</td> <td>Operation Phase</td> <td></td> <td style="text-align: center;">16.90</td> <td colspan="2"></td> </tr> <tr> <td></td> <td style="text-align: center;">Total</td> <td style="text-align: center;">157.50</td> <td style="text-align: center;">31.80</td> <td colspan="2"></td> </tr> </tbody> </table>					Sr.No	Environmental Protection Measures	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh			1.	Construction phase	157.50	14.90			2	Operation Phase		16.90				Total	157.50	31.80		
Sr.No	Environmental Protection Measures	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh																											
1.	Construction phase	157.50	14.90																											
2	Operation Phase		16.90																											
	Total	157.50	31.80																											
31	<p>a. Details of Corporate Environmental Responsibility (CER) indicating various activities to be undertaken as per the provision of OM dated 01.05.2018</p> <p>b. Details of NOC from the village Sarpanch, Certificate from the School Principal & concerned Govt. Departments etc.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 5%;">S. No</th> <th rowspan="2" style="width: 15%;">Activities</th> <th rowspan="2" style="width: 15%;">Environment Aspect</th> <th rowspan="2" style="width: 10%;">Cost (Rs. Lacs)</th> <th colspan="2" style="width: 35%;">Timeline</th> </tr> <tr> <th style="width: 15%;">Start Date</th> <th style="width: 15%;">End date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Adoption of Ponds</td> <td style="text-align: center;">Environment</td> <td style="text-align: center;">95 Lacs</td> <td style="text-align: center;">September 2022</td> <td style="text-align: center;">Before completion of project</td> </tr> </tbody> </table>					S. No	Activities	Environment Aspect	Cost (Rs. Lacs)	Timeline		Start Date	End date	1.	Adoption of Ponds	Environment	95 Lacs	September 2022	Before completion of project										
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32	<p>Details of green belt development shall include following:</p> <p>a) No. of tree to be planted against the requisite norms.</p> <p>b) Percentage of the area to be developed.</p>	<p>643 Trees will be planted and as per norms 578 trees are required</p> <p>29.7 %</p>																												

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 and to forward the application of the project proponent to SEIAA with the

recommendations to grant Environmental Clearance for the establishment of group housing project namely "Sushma Belleza" having built-up area 1,27,223 sqm in a total land area of 46,248.24 sqm located at Village Nagla, Zirakpur, SAS Nagar, Punjab, as per the details mentioned in the Form 1, 1A, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with, proposed measures, and subject to the following conditions :-

Statutory compliance:

- i) The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment, etc. as per National Building Code including protection measures from lightening, etc.
- iii) The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v) The project proponent shall obtain Consent to Establish / Operate under the provisions of the Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board / Committee.
- vi) The project proponent shall obtain the necessary permission for drawl of ground water/ surface water required for the project from the competent authority.
- vii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix) The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules,2016 and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x) The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi) The project site shall confirm to the suitability as prescribed under the provisions laid down under the master plan of respective city/ town. For that, the project proponent shall either to submit the NOC/ land use conformity certificate from

Deptt. of Town and Country Planning or other concerned Authority under whom jurisdiction, the site falls.

- xii) Besides above, the project proponent shall also comply with siting criteria / guidelines, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of projects.
- xiii) The project proponent shall get the layout plans approved from the Competent Authority for the activities / establishments to be set up at project site in consonance of the project proposal for which this environment clearance is applied.

II. Air quality monitoring and preservation

- i) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii) A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii) The project proponent shall install system to carryout Ambient Air Quality monitoring for common /criterion parameters relevant-to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.
- iv) Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v) Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3m height or 1/3rd of the building height and maximum upto 10m). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi) No Excavation of soil shall be carried out without adequate dust mitigation measures in place.
- vii) No loose soil or sand or construction & demolition waste or any other construction material that causes dust shall be left uncovered.
- viii) No uncovered vehicles carrying construction material and waste shall be permitted
- ix) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.

- x) Grinding and Cutting of building material in open area shall be prohibited. Wet jet shall be provided for grinding and stone cutting.
- xi) Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- xii) All construction and demolition debris shall be stored at the site within earmarked area and road side storage of construction material and waste shall be prohibited. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- xiii) The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xiv) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xv) For indoor air quality the ventilation provisions as per National Building Code of India.
- xvi) Roads leading to or at construction site must be paved and blacktopped (i.e. metallic road)
- xvii) Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.
- xviii) Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measure be notified at the site.

III. Water quality monitoring and preservation

- i) The natural drain system should be maintained for ensuring unrestricted flow of water.
- ii) No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- iii) Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iv) The total water requirement for the project will be 314 KL/day, out of which fresh water demand of 209 KL /day shall be met through ground waters and remaining through recycling of treated waste water from the STP. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- v) a)The total wastewater generation from the project will be 251 KL/day, which will be treated in STP of capacity 400 KL/day to be provided within project premises.

As proposed, reuse of treated wastewater available at the outlet of the STP @ 236 KL/day shall be as under:-

Sr. No.	Season	For Flushing purposes (KLD)	Green Area (KLD)	Into Sewer MC
1.	Summer	105	114	7
2.	Winter	105	38	83
3.	Rainy	105	11	120

- b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes.
- c) During construction phase, the project proponent shall ensure that the waste water being generated from the labour quarters/toilets shall be treated and disposed in environment friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately design septic tanks for the treatment of such waste water and treated effluents shall be utilized for green area/plantation
- vi) The project proponent shall ensure safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided, if required.
- vii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- viii) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- ix) At least 20% of the open spaces as required by the local building bye-Laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- x) Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- xi) The respective project proponent shall discourage the installation of R.O. plants in their projects in order to save the wastage in form of RO reject. However, in case the requirement of installing RO plant is utmost necessary then the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component i.e. (Tower/Mall) or in a common place in the project premises.

- xii) The project proponent shall also adopt the new/innovating technologies like less water discharging taps (faucet with aerators)/urinals with electronic sensor system /water less urinals / twin flush cisterns/ sensor based alarming system for overhead water storage tanks and make it a part of the environmental management plans / building plans so as to reduce the water consumption/ground water abstraction in their Building Construction & Industrial projects.
- xiii) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/ HVAC/ other purposes etc. and colour coding of different pipe lines carrying water/wastewater from different sources / treated wastewater as follows:

Sr.	Nature of the Stream	Color code
a)	Fresh water	Blue
b)	Untreated wastewater from Toilets/ urinal & from Kitchen	Black
c)	Untreated wastewater from Bathing/shower area, hand washing (Washbasin / sinks) and from Cloth Washing	Grey
d)	Reject water streams from RO plants & AC condensate (this is to be implemented wherever centralized AC system and common RO has been proposed in the Project). Further, in case of individual houses/establishment this proposal may also be implemented wherever possible.	White
e)	Treated wastewater (for reuse only for plantation purposes) from the STP treating black water	Green
f)	Treated wastewater (for reuse for flushing purposes or any other activity except plantation) from the STP treating grey water	Green with strips
g)	Storm water	Orange

- xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xv) The CGWA provisions on rain water harvesting should be followed. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. As per the proposal submitted by the project proponent 7 no. rain water harvesting recharge pits /storage tanks shall be provided for ground water recharging as per the CGWB norms. The ground water shall not be withdrawn without approval from the Competent Authority.
- xvi) All recharge should be limited to shallow aquifer.

- xvii) No ground water shall be used during construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and available at site.
- xviii) Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xix) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- xx) Sewage shall be treated in the STP with tertiary treatment. STP shall be installed in a phased manner viz a viz in the module system designed in such a way so as to efficiently treat the wastewater with an increase in its quantity due to rise in occupancy. The treated effluent from STP shall be recycled/reused for flushing, AC make up water and gardening. No treated water shall be disposed of into the municipal storm water drain.
- xxi) No sewage or untreated effluent water would be discharged through storm water drains. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on-site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by the Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xxii) Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxiii) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

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

- ii) Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii) Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

- i) Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii) Outdoor and common area lighting shall be LED.
- iii) Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv) Energy conservation measures like installation of LEDs for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v) Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1 % of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi) Solar power by utilizing at least 30% of the roof top area shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

- i) A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii) Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

- iii) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv) Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed for treatment and disposal of the waste.
- v) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- vi) Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii) Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
- ix) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- x) Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

- i) No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
- ii) At least single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. A minimum of one tree for every 80 sqm of total project land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. The plantation should be provided as per SEIAA guidelines.

- iii) Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1: 10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- iv) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
- v) The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.
- vi) The green belt along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use.

VIII. Transport

- i) A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b) Traffic calming measures.
 - c) Proper design of entry and exit points.
 - d) Parking norms as per local regulation.
- ii) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii) A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road

augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

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

IX. Human health issues

- i) All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii) For indoor air quality the ventilation provisions as per National Building Code of India.
- iii) Emergency preparedness plan based on the Hazard identification and Risk Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv) Occupational health surveillance of the workers shall be done on a regular basis.
- v) A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility

- i) The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least a minimum amount of Rs. 95 Lacs towards the following CER activities. The details are given below: -

S.No.	Activities	Environment Aspect	Cost (Rs. Lacs)	Timeline	
				Start Date	End date
1.	A fund of Rs 57 Lac has been earmarked by the management for the activities stated as above and other related activities	Infrastructure	95 Lacs	Dec 2022	Before completion of project
Total			95 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 and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv) Action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year-wise funds earmarked for environmental protection measures shall be kept in separate accounts and not to be diverted for any other purpose. The project proponent shall spend the minimum amount of Rs 157.50 Lacs towards the capital cost and Rs 14.90 Lacs/annum towards recurring cost in the construction phase of the project including the environmental monitoring cost and shall spend the minimum amount of Rs 16.90 lacs/year towards recurring cost in operation phase of the project including the environmental monitoring cost. The entire cost of the environmental management plan will continue to be borne by the project proponent until the responsibility of the environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year-wise progress of implementation of the action plan shall be reported to the Ministry/Regional Office along with the Six-monthly Compliance Report.

XI. Validity

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

XII. Miscellaneous

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

- iii) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
- iv) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- v) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- vi) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at Environment Clearance portal.
- vii) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- viii) The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- xi) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xii) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiii) The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv) The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

- xv) The Regional Office of this Ministry and Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
- xvi) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvii) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Item No 194.23: Application for Environmental Clearance under EIA notification dated 14.09.2006 for the establishment of building and housing project “Sushma Metropol” located at Village – Nagla, Zirakpur, SAS Nagar (Punjab) (SIA/PB/MIS/153588/2020)

SEAC observed that:

1.0 Present case:

The project proponent has filed an application for obtaining Environment Clearance under EIA notification, 2006 for the establishment of a Group housing project namely “Sushma Metropol” located at Village – Nagla, Zirakpur, SAS Nagar (Punjab) with a proposed built-up area as 86,375 Sqm. The project is covered under Activity 8(a) & Category ‘B2’ as per EIA notification-2006.

The project proponent submitted the Form I, 1A and other additional documents. They have also deposited the processing fee amounting to Rs. 1,72,750/- through NEFT (Fee has been submitted through with UTR no. N139201138247114 dated 18.05.2020).

The application was scrutinized & Essential Details were sought on 08/06/2020, 14/07/2020, 28/07/2020, 30/07/2020, 03/08/2020, 19/08/2020 to which project proponent replied dated 02/07/2020, 15/07/2020, 28/07/2020, 30/07/2020, 11/08/2020 & 29/08/2020 respectively. EDS reply was submitted on 29.08.2020.

Environmental Engineer, PPCB, RO, Mohali was requested vide email dated 08.09.2020 to send the construction status report. A reminder was also given vide email dated 21.09.2020. However, the report was not sent by PPCB till the time of SEAC meeting.

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

The meeting was attended by Sh. Deepak Gupta, Environmental Advisor of the company and Mr. Sital Singh, Environmental Consultant, M/s CPTL, Mohali.

Environmental Consultant of the promoter company was not allowed to make presentation for the proposal before SEAC as the construction status report was not sent by PPCB till the time of the meeting.

Further, SEAC observed that the application submitted by the project proponent/consultant is incomplete and is required to submit the following :

- i. Complete checklist and indexing of the application along with document submitted thereof.
- ii. Land use pattern of the project
- iii. Information against the Activity 1.1 of Form-1 i.e. “Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)”

- iv. Submission of approved layout plan of M/s Shipra Estate Ltd with super imposing the plot area of Sushma Belleza & Sushma Metropol on it
- v. Revised proposal for the disposal of treated waste water as the earlier proposal submitted was not acceptable.
- vi. Rain Water Harvesting proposal with sections of the recharge pits, maintenance plan and details of ponds adopted and its calculation along with NOC of the Gram Panchayat.
- vii. Details of quantity of Hazardous Waste, E-Waste & Sludge generation and its disposal arrangement
- viii. Action plan for green belt development including the capital cost and recurring expenses.
- ix. Complete proposal of CER activities indicating the cost and time schedule to complete the activities as per OM dated 01.05.2018.
- x. Complete Proposals (RWH, CER & EMP) with the applications separately from the Power Point Presentation.

SEAC observed that Environmental Consultant of the promoter company left out the various column blank with answers "No" without justifying any reason in Form-I. However, the reason for the same is required to be provided.

3.0 Recommendations

After detailed deliberations, SEAC decided to defer the case till the construction status report from PPCB is received & the project proponent submits 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 same was annexed as Annexure-D of the agenda.

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

The meeting was attended by Sh. Bupinder Singh, GM Corporate affairs, Sh. Deepak Gupta, Environmental Advisor of the company and Sh. S. Dutta, Environmental Consultant, M/s CPTL, Mohali.

The SEAC was apprised that report form the PPCB has been received vide email dated 23.10.2020 and it was reported that the site of the subject cited project was visited by AEE of Regional Office, SAS Nagar on 08.09.2020 and the status is as under: -

1. The project is opposite another construction project i.e. Sushma Valencia. Further, another proposed residential project Sushma Belleza is on one side of the project and the rest of the boundaries of the project are alongside agriculture fields. The promoter company **has not carried out any construction work at the site** and the site is covered with wild plantation.
2. As per the Master Plan Zirakpur, 2031, the site appears to fall in agriculture zone, however, the exact landuse pattern of the area needs to be confirmed from the concerned authority.

3. There is no air polluting industry such as grinding units /saila plants/rice sheller/hot mix plants/stone crushers/cement plant/brick kiln within the 500m radius of the project. Further there is no air pollution industry within 500m of the project site. Therefore, the site of the project is conforming to the sitting guidelines laid down by the Govt. of Punjab, Department of Science Technology and Environment vide order dated 25/07/2008 as amended on 30/10/2009.
4. The project proponent has not submitted any proposal regarding pollution control measures to be adopted in the projects as such no comments can be given in this regard. However, it is pertinent to mention here that Sukhna Choe, a natural water body flows just adjacent to the project boundary and the project proponent shall develop green area as per norms along the boundary of the Sukhna Choe. This may also be the incorporated in the site/building plan submitted by the project proponent. Moreover, the project proponent shall install STP in opposite directions to the Sukhna Choe.
5. Before allowing the presentation, SEAC perused the reply submitted by the Environment Consultant annexed with the agenda and it was observed that observations of the previous meeting has been attended.

Environmental Consultant of the promoter company presented the salient features of the project as under:

Sr. no.	Description	Details		
1.	Name & Location of the project	Sushma Metropol at Zirakpur		
2.	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	8(a)		
3.	Co-ordinates of all the corners of the project site as per following:	Point	Latitude	Longitude
		A	30.62777 N	76.83750 E
		B	30.62666 N	76.83555 E
		C	30.62611 N	76.83611 E
		D	30.62694 N	76.83694 E
4.	Copy of the Master plan duly marked with the project site	Submitted		

5.	Copy of duly signed Layout plan	Conceptual plan is submitted									
6.	Pre-feasibility report as per Ministry of Environment & Forests, Circular dated 30.12.2010.	NA as it is a construction project									
7.	Proof of ownership of land mentioning Khasra no. & ownership details (Latest Jamabandi or Registry)	276,278,279,284,285,286,287 288, 289, 290,290/1,291, 291/1 (Joint development agreement submitted)									
8.	Details as per CLU certificate like Khasra no., Project area (Existing & after expansion)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Khasra No.</th> <th style="width: 33%;">Area details (In Sqm)</th> <th style="width: 33%;">Ownership/Lease</th> </tr> </thead> <tbody> <tr> <td>276,278,279,284,285,286,287</td> <td>16604</td> <td>Joint development agreement</td> </tr> <tr> <td>288, 289, 290,290/1,291, 291/1</td> <td></td> <td></td> </tr> </tbody> </table>	Khasra No.	Area details (In Sqm)	Ownership/Lease	276,278,279,284,285,286,287	16604	Joint development agreement	288, 289, 290,290/1,291, 291/1		
Khasra No.	Area details (In Sqm)	Ownership/Lease									
276,278,279,284,285,286,287	16604	Joint development agreement									
288, 289, 290,290/1,291, 291/1											
9.	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 a Copy of Memorandum of Article & Association									
10.	Proposed ToRs (based on the standard ToRs)	NA as the built up area is less than 150000 Sqm									
11.	Does it attract the general condition? If yes, please specify	No as it is a construction project									
12.	Whether the proposal involves approval/clearance under	No the site is on master plan road									

	the Forest (Conservation) Act, 1980			
13.	Does the project cover under PLPA, 1900	No		
14.	If the project falls within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary. If yes, a. Name of eco-sensitive area/ National park/Wild Life Sanctuary and distance from the project site. b. Status of clearance from the National Board for Wild Life (NBWL).	No NA		
15.	Classification/Land use pattern as per Master Plan	Copy of CLU is submitted		
16.	Cost of the project	75 Cr		
17.	Processing Fee details (Amount/NEFT no./dated)	Through NEFT vide UTR No N139201138247114 amount Rs 172750/- dated 18 th May 2020		
18.	Detail of various components			
	S.no.	Description	Particulars	Unit
	1.	Plot Area	16604	SQM
	2.	Proposed Built Up Area	86375	SQM
	3.	Number of Building Blocks	1	NOS
	4.	Total no of Saleable units	804	NOS
	5.	Max Height of Building	75.75	M
	6.	Max No of Floors	18	NOS
	7.	Expected Population	6648	PERSONS
	8.	Permissible Ground Coverage Area (40%)	6641.58	SQM

9.	Proposed Ground Coverage Area (30.56%)	5075.424	SQM
10.	Permissible FAR Area ()	NA	SQM
11.	Proposed FAR Area ()	56303.02	SQM
12.	Non-FAR & Other areas (Floors + Basements)	30071.95	SQM
13.	Proposed Built Up Area	86375.00	SQM
14.	Total Water Requirement	131.00	KLD
15.	Freshwater requirement	45.00	KLD
16.	Wastewater Generation	105.00	KLD
17.	Proposed STP Capacity	200.00	KLD
18.	Treated Water Available for Reuse	95.00	KLD
19.	Recycled Water	95.00	KLD
20.	Surplus treated water	0.00	KLD
21.	Rain Water Harvesting Potential	7530	CUM/Year
22.	Proposed Total Parking	1128	
23.	Surface Parking	114	ECS
24.	Basement Parking	1014	ECS
25.	Required Green Area	Nil	SQM
26.	Proposed Green Area	3947	SQM
27.	Municipal Solid Waste Generation	1535	KG/DAY
28.	Quantity of E-Waste Generation-Kg/Day	As per generation	KG/DAY
29.	Quantity of Hazardous Waste Generation	50 ltr	LTS/year

	30.	Quantity of Sludge Generated from STP	13.00	KG/DAY			
19.	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	131.00		86.00	21.00	0
	2.	Winter	131.00		86.00	7.00	0
	3.	Rainy	131.00		86.00	2.00	0
	S.No.		Description		Source of water		
	1.		Domestic		Ground water		
	2.		Flushing purposes		Recycled water from STP		
	3.		Green area		Recycled water from STP		
20.	Details of acknowledgement of application filed to CGWA /Competent Authority for obtaining permission for abstraction of ground water		As per application submitted for 45 KLD fresh water requirement vide application No 21-4/5658/PB/INF/2020 Dated 18/05/2020				
21.	Specify block of project site as per CGWA norms (Notified/Non Notified)		Non Notified				
22.	Details of Wastewater generation, Treatment facility & its Disposal arrangements in Construction Phase		WASTE WATER -105 KLD TREATMENT-SBR				
23.	Details of Wastewater generation, Treatment facility & its Disposal arrangements in Operation Phase and if waster water being disposed in MC sewer then also mention the details of NOC from competent authority		Total wastewater generation will be 105 KLD which will be treated in proposed STP of 200 KLD based on SBR technology to be installed within project premises. The details of the breakup of the utilization of wastewater is as under:-				
	Season		Flushing (KLD)	Green area (KLD)	MC Sewer (KLD)		
	Summer		86.00	9.00	0		

		Winter	86.00	7.00	2		
		Monsoon	86.00	2.00	7		
24.	Details of Rainwater recharging/Harvesting(m ³ /hr) proposal & technology proposed to be adopted	7530 CUM/ Year					
25.	Details of Solid waste generation (Qty), treatment facility and its disposal arrangement	1535 Kg/ day Mechanical Composter will be provided for Bio degradable and recycled will be sold to the vendors and rest will be disposed at approved site					
26.	Details of Hazardous Waste&E- Waste generation (Qty), Treatment facility and its disposal arrangement	50 Ltr / used oil and used battery and will be sold to approved vendors of CPCB					
27.	Detail of DG sets	3 X 1500 KVA, 1 X1000 KVA , 1 X 500 KVA					
28.	Air pollution control device details	DG sets stack height as per norms					
29.	Energy Requirements & Saving	Solar Light 15 No = 37 KWHD • Common area (250) lights replaced with LED = 135 KWHD • Total Energy saved/day = 172 KWHD					
30.	Details of Environmental Management Plan						
		Sr.No	Environmental Protection Measures	Capital Cost Rs. Lakh	Recurring Cost Rs. Lakh		
		1.	Construction phase	119.50	13.90		
		2	Operational phase	-	15.40		
			Total	119.50	29.30		
31.	a. Details of Corporate Environmental Responsibility (CER) indicating various activities to be undertaken as per the provision of OM dated 01.05.2018						
		S.No.	Activities	Environment Aspect	Cost (Rs. Lacs)	Timeline	
						Start Date	End date
		1.	A fund of Rs 57 Lac has been earmarked	Infras tructu re	57 Lacs	Dec 2022	Before comple tion of project

	b. Details of NOC from the village Sarpanch, Certificate from the School Principal & concerned Govt. Departments etc.	by the management for the activities stated as above and other related activities				
		Total		57 Lacs		
32.	<p>Details of green belt development shall include following:</p> <p>a) No. of tree to be planted against the requisite norms.</p> <p>b) Percentage of the area to be developed.</p>	<p>210 trees against 207 trees requirement</p> <p>23.77 %</p>				

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 and to forward the application of the project proponent to SEIAA with the recommendations to grant Environmental Clearance for the establishment of bulding and construction project namely "Sushma Metropol" having built-up area 86,375 sqm in a total land area of 16,604 sqm located at Village Nagla, Zirakpur, SAS Nagar, Punjab, as per the details mentioned in the Form 1, 1A, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with, proposed measures, and subject to the following conditions:-

Statutory compliance:

- i) The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment, etc. as per National Building Code including protection measures from lightening, etc.
- iii) The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v) The project proponent shall obtain Consent to Establish / Operate under the provisions of the Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board / Committee.
- vi) The project proponent shall obtain the necessary permission for drawl of ground water/ surface water required for the project from the competent authority.
- vii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix) The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules, 2016 and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x) The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi) The project site shall confirm to the suitability as prescribed under the provisions laid down under the master plan of respective city/ town. For that, the project proponent shall either to submit the NOC/ land use conformity certificate from Deptt. of Town and Country Planning or other concerned Authority under whom jurisdiction, the site falls.
- xii) Besides above, the project proponent shall also comply with siting criteria / guidelines, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of projects.
- xiii) The project proponent shall get the layout plans approved from the Competent Authority for the activities / establishments to be set up at project site in

consonance of the project proposal for which this environment clearance is applied.

II. Air quality monitoring and preservation

- i) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii) A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii) The project proponent shall install system to carryout Ambient Air Quality monitoring for common /criterion parameters relevant-to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.
- iv) Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v) Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3m height or 1/3rd of the building height and maximum upto 10m). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi) No Excavation of soil shall be carried out without adequate dust mitigation measures in place.
- vii) No loose soil or sand or construction & demolition waste or any other construction material that causes dust shall be left uncovered.
- viii) No uncovered vehicles carrying construction material and waste shall be permitted
- ix) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- x) Grinding and Cutting of building material in open area shall be prohibited. Wet jet shall be provided for grinding and stone cutting.
- xi) Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- xii) All construction and demolition debris shall be stored at the site within earmarked area and road side storage of construction material and waste shall be prohibited.

All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.

- xiii) The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xiv) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xv) For indoor air quality the ventilation provisions as per National Building Code of India.
- xvi) Roads leading to or at construction site must be paved and blacktopped (i.e. metallic road)
- xvii) Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.
- xviii) Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measure be notified at the site.

III. Water quality monitoring and preservation

- i) The natural drain system should be maintained for ensuring unrestricted flow of water.
- ii) No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- iii) Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iv) The total water requirement for the project will be 131 KL/day, out of which fresh water demand of 45 KL /day shall be met through ground waters and remaining through recycling of treated waste water from the STP. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- v) a)The total wastewater generation from the project will be 105 KL/day, which will be treated in STP of capacity 200 KL/day to be provided within project premises. As proposed, reuse of treated wastewater available at the outlet of the STP @ 95 KL/day shall be as under:-

Sr. No.	Season	For Flushing purposes (KLD)	Green Area (KLD)	Into MC Sewer
1.	Summer	86	9	0

2.	Winter	86	7	2
3.	Rainy	86	2	7

- b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes.
- c) During construction phase, the project proponent shall ensure that the waste water being generated from the labour quarters/toilets shall be treated and disposed in environment friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately design septic tanks for the treatment of such waste water and treated effluents shall be utilized for green area/plantation
- vi) The project proponent shall ensure safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided, if required.
- vii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- viii) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
- ix) At least 20% of the open spaces as required by the local building bye-Jaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- x) Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- xi) The respective project proponent shall discourage the installation of R.O. plants in their projects in order to save the wastage in form of RO reject. However, in case the requirement of installing RO plant is utmost necessary then the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component i.e. (Tower/Mall) or in a common place in the project premises.
- xii) The project proponent shall also adopt the new/innovating technologies like less water discharging taps (faucet with aerators)/urinals with electronic sensor system /water less urinals / twin flush cisterns/ sensor based alarming system for overhead water storage tanks and make it a part of the environmental

management plans / building plans so as to reduce the water consumption/ground water abstraction in their Building Construction & Industrial projects.

- xiii) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/ HVAC/ other purposes etc. and colour coding of different pipe lines carrying water/wastewater from different sources / treated wastewater as follows:

Sr.	Nature of the Stream	Color code
a)	Fresh water	Blue
b)	Untreated wastewater from Toilets/ urinal & from Kitchen	Black
c)	Untreated wastewater from Bathing/shower area, hand washing (Washbasin / sinks) and from Cloth Washing	Grey
d)	Reject water streams from RO plants & AC condensate (this is to be implemented wherever centralized AC system and common RO has been proposed in the Project). Further, in case of individual houses/establishment this proposal may also be implemented wherever possible.	White
e)	Treated wastewater (for reuse only for plantation purposes) from the STP treating black water	Green
f)	Treated wastewater (for reuse for flushing purposes or any other activity except plantation) from the STP treating grey water	Green with strips
g)	Storm water	Orange

- xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xxiv) The CGWA provisions on rain water harvesting should be followed. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. As per the proposal submitted by the project proponent 3 no. rain water harvesting recharge pits /storage tanks shall be provided for ground water recharging as per the CGWB norms. The ground water shall not be withdrawn without approval from the Competent Authority.
- xv) All recharge should be limited to shallow aquifer.
- xvi) No ground water shall be used during construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and available at site.

- xvii) Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xviii) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- xix) Sewage shall be treated in the STP with tertiary treatment. STP shall be installed in a phased manner viz a viz in the module system designed in such a way so as to efficiently treat the wastewater with an increase in its quantity due to rise in occupancy. The treated effluent from STP shall be recycled/reused for flushing, AC make up water and gardening. No treated water shall be disposed of into the municipal storm water drain.
- xx) No sewage or untreated effluent water would be discharged through storm water drains. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on-site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by the Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xxi) Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxii) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

- i) Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- ii) Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii) Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures

- i) Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii) Outdoor and common area lighting shall be LED.
- iii) Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased. day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv) Energy conservation measures like installation of LEDs for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v) Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1 % of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi) Solar power by utilizing at least 30% of the roof top area shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management

- i) A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii) Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iii) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv) Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed for treatment and disposal of the waste.
- v) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

- vi) Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii) Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii) Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
- ix) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- x) Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover

- i) No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
- ii) At least single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. A minimum of one tree for every 80 sqm of total project land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. The plantation should be provided as per SEIAA guidelines.
- iii) Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1: 10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- iv) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

- v) The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.
- vi) The green belt along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use.

VIII. Transport

- i) A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b) Traffic calming measures.
 - c) Proper design of entry and exit points.
 - d) Parking norms as per local regulation.
- ii) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii) A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- iv) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.

IX. Human health issues

- i) All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii) For indoor air quality the ventilation provisions as per National Building Code of India.

- iii) Emergency preparedness plan based on the Hazard identification and Risk Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv) Occupational health surveillance of the workers shall be done on a regular basis.
- v) A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility

- i) The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least a minimum amount of Rs.57 Lacs towards the following CER activities. The details are given below: -

S.No.	Activities	Environment Aspect	Cost (Rs. Lacs)	Timeline	
				Start Date	End date
1.	A fund of Rs 57 Lac has been earmarked by the management for the activities stated as above and other related activities	Infrastructure	57 Lacs	Dec 2022	Before completion of project
Total			57 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 and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv) Action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved

by competent authority. The year-wise funds earmarked for environmental protection measures shall be kept in separate accounts and not to be diverted for any other purpose. The project proponent shall spend the minimum amount of Rs 119.50 Lacs towards the capital cost and Rs 13.90 Lacs/annum towards recurring cost in the construction phase of the project including the environmental monitoring cost and shall spend the minimum amount of Rs 15.40 lacs/year towards recurring cost in operation phase of the project including the environmental monitoring cost. The entire cost of the environmental management plan will continue to be borne by the project proponent until the responsibility of the environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year-wise progress of implementation of the action plan shall be reported to the Ministry/Regional Office along with the Six-monthly Compliance Report.

XI. Validity

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

XII. Miscellaneous

- i) The project proponent before allowing any occupancy shall obtain completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab.
- ii) The project proponent shall comply with the conditions of CLU.
- iii) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
- iv) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- v) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- vi) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at Environment Clearance portal.
- vii) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

- viii) The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- xi) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xii) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiii) The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv) The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xv) The Regional Office of this Ministry and Punjab Pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
- xvi) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvii) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Item no. 194.24: Application for amendment in earlier Environmental clearance issued vide letter no. 8538 dated 01.02.2014 under EIA Notification dated 14.09.2006 regarding ammendement by installation of individual neutralizer in their Premises for the Neutralization of excess chlorine/ acid vapour evolved from process in the existing Industrial Plant located in the revenue estate of Village Khadauli, Tehsil Rajpura, District Patiala by M/s Shiva Exim Enterprises.

1.0 Background :

Earlier, M/s Shiva Exim Enterprises has obtained environmental clearance under EIA Notification dated 14.09.2006 for increase in the production capacity of Chlorinated Paraffin from 5040 MTA to 14400 MTA and hydrochloric acid from 10080 MTA to 28800 MTA in the existing Industrial Plant located in the revenue estate of Village Khadauli, Tehsil Rajpura, District Patiala. The project pertains to category 5 (f) of the Schedule appended to the said Notification. The case was considered in 91st meeting of SEAC on 25.01.2014, wherein, the committee awarded Silver Grading for screening of the project proposal. Thereafter, The case was considered by SEIAA in its 60th meeting held on 29.01.2014 and granted Environmental Clearance vide letter no. SEIAA/2014/8538 dated 01.02.2014. Following are the salient parameters granted in the above EC:

1. Increase in the production capacity of chlorinated paraffin wax from 5040 MTA to 14400 MTA and hydrochloric acid from 10080 MTA to 28800 MTA.
2. The industry shall use HNP/NP/LNP and liquid chlorine as raw material for manufacturing of above mentioned products.
3. The total water requirement of the project will be 95 KLD, which will be met from canal water supply. Out of which, 3 KLD will be used for domestic purpose, 90 KLD will be used in the process and 2 KLD will be used for cooling purpose.
4. About 2.4 KLD of domestic effluent will be generated, which will be treated in an existing septic tank. The treated wastewater will be discharged on to land for irrigation.
5. *The excess chlorine to be evolved from the process will be neutralized in the common neutralizer installed in the premises of SIEL*
6. Green belt will be developed in an area of 1416 sq. m. and the same will be irrigated with treated domestic effluent.
7. The existing power requirement available is 124.75 KW and about 75.25 KW additional power required. Total power requirement will be 200 KW after expansion.
8. D.G. set of 200 KVA will be installed as standby arrangement of power supply.
9. No forest land falls in the project site and there is no National Park and Wild life Sanctuary within a radius of 10 Km from the project site.

2.0 Present Case:

Now, the project proponent has applied dated 02.10.2020 for Amendment in earlier Environmental clearance issued dated 01.02.2014 under EIA Notification dated 14.09.2006 in the existing Industrial Plant located in the revenue estate of Village Khadauli, Tehsil Rajpura, District Patiala. During Manufacturing of chlorinated parffin, excess chlorine/acid vapours evolved from the process are being neutralized in the common neutralizer (Alkali scrubber) installed in the premises of SIEL Chemical complex. Project Proponent informed that whenever, there is shutdown in caustic soda plant (SIEL) or in caustic neutralization system of SIEL Chemical Complex our Chlorinated paraffin plant becomes non operative. Therefore, requested that they shall be allowed to install individual neutralizer in their Premises for the Neutralization of excess chlorine/ acid vapour evolved from process. Further, committed that there will be neither any change in the manufacturing process nor any increase of production capacity of the existing unit.

3.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was again considered by the SEAC in its 194th meeting held on 23.10.20 and was attended by the following:

- i) Sh. Ajay Tripathi, Director of the promotor company.
- ii) Mr. S. Dutta, EIA coordinator from M/s Chandigarh Pollution Testing Lab

Environmental Consultant of the promoter company made the presentation for ammendment before SEAC. After the discussions, SEAC made certain observations to which project proponent replied as under:

Sr. No.	Query	Reply
1.	Whether their will be any change or increase in any of the product or by product manufacture by the industry.	Project Proponent submitted an undertaking to the effect that there will be no change in any of the product or by product as per earlier issued EC letter no.-SEIAA/2014/8538/2014 dated 1/2/2014. Further, committed that only individual neutralizer will be installed in the premises.

SEAC was satisfied with the presentation and reply given to the above observation & took the same on record.

4.0 Recommendations

After detailed deliberations, SEAC decided to forward the application to SEIAA with the recommendation to issue an ammendment in the earlier EC for installation of individual neutralizer in the premises for the Neutralization of exess chlorine/ acid vapour evolved from process in the existing Industrial Plant located in the revenue estate of Village Khadauli, Tehsil Rajpura, District Patiala by M/s Shiva Exim Enterprises. As per the details mentioned in the Form 4 & subsequent presentation /clarifications made by the project proponent and his consultant following amendment will be made: -

Amnedment in the earlier EC:

S.no.	Particulars	Capacity MTA Before Amendment	Capacity MTA After Amendment
1.	Chlorinated paraffin vax	14400	14400
2.	Hydrochloric Acid	28800	28800
3.	Water Consumption (KLD)	95	95
4.	APCD (Alkali Scrubber)	Excess chlorine to be evolved from the process will be neutralized in the common neutralizer installed in the premises of SIEL	Installation of purposed individual neutralizer in their Premises for the Neutralization of exess chlorine/ acid vapour evolved from process.

Item No.194.25: Application for obtaining Environmental Clearance (under Cat- B2) for ‘Expansion’ of API and Intermediate Bulk Drug Pharmaceutical manufacturing unit by “M/s Sourav Chemicals Limited” at Village Bhagwanpura Tehsil-Derabassi SAS Nagar, Punjab-140507 (Proposal no SIA/PB/IND2 / 174361 /2020)

1.0 Background

The project proponent submitted application for obtaining Environmental Clearance under EIA Notification, 2006 for setting up 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 so as to ensure drug availability or production to reduce the impact of Novel Corona virus. The company is involved in the manufacturing of various categories of active pharmaceuticals ingredients and its intermediate with a total production capacity of 4.60 MTPM.

2.0 Present Case

The unit proposes to manufacture various bulk drugs and drug intermediates with a production capacity of 233.7 MTPM. The project proponent has submitted the EIA report and was scrutinized, EDS was raised on 15.10.2020 to which the project proponent replied online on 21.10.2020. Further, the Project proponent has deposited EC processing fee of Rs.6,70,000/- through NEFT Ref ID. N262201248928835 dated 18.09.2020. Thereafter, the application for obtaining EC was accepted online on 21.10.2020. Project Proponent has submitted compliance report from MoEF & CC dated 01.05.2019 along with EIA report. In the report two major observations were not complied i.e (NOC from CGWA has not been renewed and application was pending at the level of CGWA and the unit has not rain water harvesting structures. The unit has taken exemption from PPCB as it is a chemical industry).

In compliance to above observations at first point, project proponent submitted EDS reply dated 21.10.2020, mentioning CGWA letter dated 14.06.2011 regarding renewal of permission for ground water abstraction for existing and proposed requirement (125 KLD), stating CGWA has decided that NOC would be issued only once and renewal is discontinued. Further, there would be random site inspection of selected industries by CGWA and in case the industry is found to be defaulter in adhering to the laid down terms and conditions, the NOC will be cancelled. Further, has attached copy of email correspondence regarding renewal to CGWA dated 22.12.2018, 21.01.2019, 24.06.2020, 10.08.2020 and 11.08.2020. Whereas, for the second point PP submitted rain water harvesting proposal for outside the premises by adopting Pond at village Fatehpur for ground water recharge of 1,06,260 m³/annum.

3.0 Deliberations during the 194th meeting of SEAC held on 23.10.2020

The case was considered by the SEAC in its 194th meeting held on 23.10.20 and was attended by the following:

- i) Sh. Pritmohinder Singh, Chief of Operation from the promoter company
- ii) Mr. S. Dutta, EIA coordinator from M/s Chandigarh Pollution Testing Lab

SEAC was apprised that the project proponent has submitted certified compliance report dated 01.05.2019 of MoEF&CC, Northern Regional Office, Chandigarh. SEAC perused the said compliance report and observed that some of the conditions of Environmental Clearance was not complied/partially complied. To this, the project proponent informed that they had already submitted the action taken report vide letter no. 576 dated 01.06.2019 to the Ministry and most of the observations have now been complied with.

Environmental Consultant of the promoter company made the presentation for proposal before SEAC. After the discussions, SEAC made certain observations to which project proponent replied as under:

S. No.	Query	Reply
1.	Submit revised CER activities	Submitted revised CER activities
2.	Submit copy of Renewal Application submitted to CGWA for water abstraction	Project proponent submitted following documents: 1) Submitted copy of application for renewal of NOC applied to regional office CGWB vide letter dated 5 th June 2017 2) Submitted old NOC granted to Industry by Central Ground Water Board vide letter dated 4 th June 2011. 3) PP informed that CGWB Officials visited their site on 7 th September 2018 and the observations raised during the visit were duly complied & submitted to CGWB vide letter dated 14 th September 2018 and email dated 22 nd December 2018 (Copy of correspondence submitted) 4) Submitted further compliance of CGWB direction made vide email dated 18 th July 2019

The salient features of the project after considering the aforesaid reply is as under:-

1.	Name of the project	M/s Saurav Chemicals Private Limited
2.	Online Proposal No.	SIA/PB/IND2/174361/2020
3.	Nature of project	EC for Expansion

4.	Category & Activity	5 (f) 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 30 th September 2020, shall be appraised as Category 'B2'		
5.	Whether the project falls in the critical polluted area notified by MoEF&CC/CPCB.	No		
6.	Expansion Cost (In Crores) :	Rs. 67 Crores		
7.	Amount of EC Processing Fee	Submitted		
8.	Details of technology proposed for control of emissions & effluents generated from project	Particulars	Capacity	Technology
		Effluent Treatment Plant	100 m ³ /day	MBBR Technology
		Evaporation of HTDS effluent	30 KLD	MEE/MVR Technology
		APCD	----	Multicyclone & scrubbers
		Incinerator	100 kg/hr	Pyrolysis Technology
9.	Co-ordinates	Point	Latitude	Longitude
		A	76°53' 32.46"E	30°34' 31.56"N
		B	76°53' 39.29"E	30°34' 41.48"N
10.	Zoning as per master plan	The Project Proponent has submitted NOC from PPCB vide letter dated 02.08.2004 and an undertaking that there was no requirement of change in land use at the time of establishment of the unit in the year 2004. Further, has submitted notification regarding uniformity in the zoning regulations of the State of Punjab. EDS reply submitted dated 21.10.2020		
11.	Details of valid consent to operate under Air & Water Act	Consent to Operate under the Water (Prevention & Control of Pollution) Act, 1974; valid till 30.09.2024 and under the Air (Prevention & Control of Pollution) Act, 1981; valid till 31.03.2021.		
12.	Verified compliance report from MoEF & CC	Submitted		

13.	Production Capacity of existing and proposed products :	S. No.	Products	Production
		Existing(Kg/m)		
		1.	Atorvastatin	102.6
		2.	Fexofenadine hydrochloride	2000
		3.	Pentazocinhydrochloride	1000
		4.	Serteraline hydrochloride	1500
		Proposed (TPM)		
		1	Alpha Lipoic Acid	2.50
		2	Amiodarone Hydrochloride	0.83
		3	Atropine Sulphate	0.02
		4	Chlorzoxazone	3.33
		5	ClopiBsylate	2.50
		6	Clopi Form-2	2.50
		7	Clopi Form-1	2.50
		8	D-Cycloserene	2.50
		9	Dexketoprofen trometamol	3.33
		10	Diethylcarbamazine Citrate	5.00
		11	Febuxostat	2.50
		12	Homatropine Hydrobromide	0.08
		13	Homatropine MethylBromide	0.42
		14	Ketorolac Tromethamine	0.29
		15	Levofloxacin hemihydrates	3.33
		16	Loxoprofen Sodium	8.33
		17	Pregabalin	2.50
		18	Rabeprazole Sodium	0.83
		19	Rebamipide	8.33
		20	Atorvastatin	2.50
		21	Celecoxib	4.17
		22	Clarithromycin	4.17
		23	Flurbiprofen	0.83
		24	Rosuvastatin	0.83
		25	Strontium Ranelate	1.67
		26	Ketoprofen From CEBA	3.33
		27	Ketprofen from Keto Nitrile	3.33
		28	Sertraline Hydrochloride	2.50
		29	Tris Buffer	0.83
		30	Vidagliptin	2.50
31	Acetoxy EthylBromide	41.67		
32	BromoButyric Acid	2.50		
33	CLA	2.50		
34	Mono-P-Nitrobenzyl malonate magnesium salt	4.17		
35	Para Nitro Benzyl Alcohol(PNBA)	8.33		
36	HBr 48%	41.67		
37	Para nitro benzyl bromide (PNBB)	41.67		

		38	Para Nitrobenzyldehyde(PNBD)	0.42
		39	4-Bromomethyl quinolone-2(1H)-one(BMQ)	8.33
		40	4-Bromomethyl -2cynobiphenyl(BMC)	4.17
		Total Production(TPM)		233.7
14.	Details of Emissions (After expansion)	<p>During the manufacture various drugs products, traces HCL, SO₂ gas shall be generated. These gases shall be absorbed in caustic lye solution. The absorber system is designed for absorbing HCL, SO₂. Further, project proponent submitted that boiler ash of 1TPD generated will be treated in multicyclone followed by scrubber and boiler ash will be sent to brick manufacturer.</p> <p style="text-align: center;">EDS reply submitted dated 21.10.2020</p>		
15.	Hazardous/Non-Hazardous Waste Generation details & their storage, utilization and its disposal. Copy of Agreement clearly mentioning the Quantity			
	Category	Type of Hazardous Waste	Expected quantity	Disposal Methods
	5.1	Used/spent oil	7.0 KL/year	Will be sold to Bharat Oil Company (BOCL), and Aggarwal Manufacturing Co.
	28.1	Process Residue and wastes	950 MT/year	Will be sent to Green Gene Enviro Protection and Infrastructure Private Limited (GGEPI)
	28.2& 28.3	Spent catalyst/Spent carbon	10 MT /year	Will be sent to Green Gene Enviro Protection and Infrastructure Private Limited (GGEPI)
	28.4 & 28.5	Off Specification products/date expired products	2500 Kg/year	Will be sold to Bharat Oil Company
	28.6	Spent solvents	2000 KL/Year	Will be sold to Bharat Oil Company
	33.1	Discarded containers / barrels /liners used for hazardous wastes/ chemicals	20000 No. /Year	Will be sent to Enviro Clean, Mohali
	33.1	Discarded containers / barrels /liners used for hazardous wastes/ chemicals	1000 Kg. /Year	Will be sent to Enviro Clean, Mohali
	35.3	Chemical Sludge from wastewater treatment	2190 MT/Year	Will be disposed to Government approved land fill site M/s Ramky Enviro Engineers Limited (REEL), Nimbua for further treatment & disposal.

	36.1	Any Process or Distillation Residue		Will be sent to Green Gene Enviro Protection and Infrastructure Private Limited (GGEPI)/ BOCL																																								
	36.2	Spent carbon or filter medium	8500 Kg/Year	Will be sent to Green Gene Enviro Protection and Infrastructure Private Limited (GGEPI)/ BOCL																																								
	37.2	Ash from incinerator	500 MT/year	Will be sent to TSDF-Nimbua																																								
	37.3	Concentration or evaporation residue	150 MT/year	Will be sent to TSDF – Niimbua/ BOCL																																								
<p>EDS reply submitted dated 21.10.2020 that the industry is having proper agreement with all the above mentioned coprocessors/ recyclers.</p>																																												
16.	Details of the block as per CGWA guideline	Dera bassi Block Non-Notified, Over exploited																																										
17.	Breakup of Water Requirements & its source in Operation Phase	<p>Sources of water:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th colspan="2">Requirement</th> </tr> </thead> <tbody> <tr> <td colspan="4">Source of Water –Ground Water, & Treated waste water from STP</td> </tr> <tr> <td colspan="2"></td> <th>Existing</th> <th>After Expansion</th> </tr> <tr> <td>1</td> <td>Process water</td> <td>8 KLD</td> <td>15.0KLD</td> </tr> <tr> <td>2</td> <td>Washing</td> <td>25 KLD</td> <td>35.0 KL</td> </tr> <tr> <td>3</td> <td>Cooling Tower</td> <td>7 KLD</td> <td>40.0KLD</td> </tr> <tr> <td>4</td> <td>Domestic uses</td> <td>7 KLD</td> <td>10.0KLD</td> </tr> <tr> <td>5</td> <td>Green Belt</td> <td>10 KLD</td> <td>25 KLD</td> </tr> <tr> <td colspan="2">Total</td> <td>57 KLD</td> <td>125 KLD</td> </tr> <tr> <td colspan="3">*Additional water requirement for green belt during Summer season</td> <td>44 KLD</td> </tr> </tbody> </table> <p>*For additional 44 KLD water, NOC from GMADA vide letter no. 1908 dated 22.10.2020 for getting treated waste water supply of 4 MLD has been obtained & Submitted</p>			S. No.	Description	Requirement		Source of Water –Ground Water, & Treated waste water from STP						Existing	After Expansion	1	Process water	8 KLD	15.0KLD	2	Washing	25 KLD	35.0 KL	3	Cooling Tower	7 KLD	40.0KLD	4	Domestic uses	7 KLD	10.0KLD	5	Green Belt	10 KLD	25 KLD	Total		57 KLD	125 KLD	*Additional water requirement for green belt during Summer season			44 KLD
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18.	Copy of Renewal Application submitted to	Submitted copy of application for renewal of NOC applied to regional office CGWB vide letter dated 5 th June 2017 for abstraction of 125 KLD ground water.																																										

	CGWA for water abstraction	Submitted as reply to observation of SEAC dated 23.10.2020																				
19.	Water balance chart for Summer, Rainy and Winter seasons	Submitted																				
20.	Rain Water utilization proposal during monsoons	Submitted																				
21.	Rain Water Harvesting proposal	<p>Outside: - For RWH, a pond of Fatehpur village is adopted. In the pond, three filling will be done and total 106260m³ water will be recharged. All the waste water of nearby Fatehpur village which will be directed towards the village ponds will be first treated in trenches through CSIR-NEERI's Phytorid waste water treatment technology and overflow water will be discharged into the pond. NOC for RWH from concerned Panchyat has been obtained.</p> <p>Inside:- As per PPCB letter no.- EE(ZP-1)/2007/PTA/LM/124/10735 dated 05/09/2007 issued to industry, being Pharmaceutical unit highly, the industry cannot be allowed to construct rain water harvesting system inside the premises.</p> <p>EDS reply submitted 21.10.2020</p>																				
22.	Blockwise details of no. of trees to be planted in proposed greenbelt area	<p>As per guidelines they need to plant 1872 numbers of trees. More than 1200 numbers of trees has already been planted, and rest 672 plants will be planted in monsoon of year 2021 and 2022.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S.No.</th> <th>Description</th> <th>Area (m²)</th> <th>No.of plants</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>A Block Green area</td> <td>4850</td> <td>720</td> </tr> <tr> <td>2</td> <td>B Block Green area</td> <td>2400</td> <td>360</td> </tr> <tr> <td>3</td> <td>C Block Green area</td> <td>5296</td> <td>792</td> </tr> <tr> <td></td> <td>Total</td> <td>12546</td> <td>1872</td> </tr> </tbody> </table> <p>EDS reply submitted dated 21.10.2020</p>	S.No.	Description	Area (m ²)	No.of plants	1.	A Block Green area	4850	720	2	B Block Green area	2400	360	3	C Block Green area	5296	792		Total	12546	1872
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	<p>within industry:</p>	<p>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: - Load Distribution: 1. Total Internal Lighting Load = 150 KW 2. Outer Lighting Load = 50 KW 3. Other Power load = 2800 KW Total Load = 3000 KW</p> <p>Saving: By using 20 W LED against 40 W tube lights (50%) = 75 KW By using solar energy for outer Lighting (50%) = 50 KW TOTAL = 125 KW Percentage (125/3000X100) = 4.2%</p>																									
<p>24.</p>	<p>a. EMP Budget details b. Details of Environment Management Cell (EMC) responsible for implementation of EMP</p>	<p>a. Revised EMP budget details :</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Particulars</th> <th>Approx . Capital Cost (Crore)</th> <th>Approx. Recurring Cost Annually (Lac)</th> <th>Parameters Covered</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Multi-Cyclone & Scrubbers</td> <td>Rs 2.50</td> <td>Rs 2.5</td> <td>SPM,CO₂, NO_x, and ACID MIST</td> </tr> <tr> <td>2.</td> <td>Multi Effect Evaporator (mee)</td> <td>Rs 3.00</td> <td>Rs 1.5</td> <td>----</td> </tr> <tr> <td>3.</td> <td>Incinerator</td> <td>Rs 1.50</td> <td>Rs 1.5</td> <td>SPM, CO, ACID MIST</td> </tr> <tr> <td>4.</td> <td>Effluent Treatment Plant</td> <td>Rs 1.40</td> <td>Rs 2.0</td> <td>pH, TSS, TDS, COD, BOD, O/G, Phenolic Compound, Ammonical Nitrogen & Bio-assay</td> </tr> </tbody> </table>	Sr. No.	Particulars	Approx . Capital Cost (Crore)	Approx. Recurring Cost Annually (Lac)	Parameters Covered	1.	Multi-Cyclone & Scrubbers	Rs 2.50	Rs 2.5	SPM,CO ₂ , NO _x , and ACID MIST	2.	Multi Effect Evaporator (mee)	Rs 3.00	Rs 1.5	----	3.	Incinerator	Rs 1.50	Rs 1.5	SPM, CO, ACID MIST	4.	Effluent Treatment Plant	Rs 1.40	Rs 2.0	pH, TSS, TDS, COD, BOD, O/G, Phenolic Compound, Ammonical Nitrogen & Bio-assay
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		5.	Green Belt Development	Rs. 0.1	Rs.0.5	Saplings, transportation, fertilizers, horticulturist etc.	
		TOTAL		Rs. 8.5	Rs 8.0	----	
<p>b. Details of Environment Management Cell (EMC) responsible for implementation of EMP: Submitted.</p> <ul style="list-style-type: none"> • Managing Director • Factory Manager or Operations Manager • Executive Environment • Officer Environment <p>EDS reply submitted dated 21.10.2020</p>							
25.	<p>The company will be responsible for implementation of Corporate Environment Responsibility with in 5 year of time. As the project cost is Rs 67.0 Crores, therefore 1% of project cost i.e. Rs 67 Lacs needs to be reserved for CER activity as per office memorandum of CER dated 01-05-2018. Every year the company will spend 13.4 lacs. The activities cover is as under:</p>						
		DESCRIPTION	ACTIVITY PROPOSED	ENVIRONMENT ASPECT	COST	Timeline	
						Start	End
		1. Govt. Middle School Saidpura	Water coolers in school	Sanitation	Rs 2.5 Lacs	May 2021	--
		2. Govt. Middle School Rampur Sainia	Plantation of trees all around the boundary wall of schools	Aesthetic & Pollution Control	Rs 2.5 Lacs	June 2021	June 2023
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			Health and environment camps	Education	2.5 Lacs	June 2021	June 2023
			Other requirements	---	2.5 Lacs	---	---
		Kheri Jatan	Water Treatment plant, and pipeline for	Sanitation	Rs 23.0 Lacs	June 2020	June 2021

			agricultural field			
		Cleaning of Pond	Rain water harvesting	Rs 10.0 Lac	June 2020	June 2021
		Total		67 Lacs		
Submitted with reply to the observation of SEAC dated 23.10.20						

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

4.0 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 Bhagwanpura, Tehsil- Derabassi, District - SAS Nagar, Punjab, by " M/s Sourav Chemicals Limited" as per the details mentioned in the Form 2, EIA report, EMP & subsequent presentation /clarifications made by the project proponent and his consultant during SEAC meeting, with aforesaid salient features and conditions as under: -

Conditions to be imposed in the Environmental Clearance:

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 125 KLD. Prior permission shall be obtained from the concerned regulatory authority/CGWA with regard to renewal of NOC. Further, additional 44 KLD water requirement for green belt shall be met from GMADA STP as treated waste water of 4 MLD as per agreement.
- 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

More than 1200 numbers of trees has already been planted, and rest 672 plants will be planted in monsoon of year 2021 and 2022.

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 1872 trees to be planted without accounting the shrubs and protect the same with tree guard made of concrete. More than 1200 numbers of trees has already been planted and rest 672 plants will be planted in monsoon of year 2021 and 2022.

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

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 company will be responsible for implementation of Corporate Environment Responsibility with in 5 year of time. As the project cost is Rs 67.0 Crores, therefore 1% of project cost i.e. Rs 67 Lacs needs to be reserved for CER activity as per office memorandum of CER dated 01-05-2018. The activities cover is as under:

DESCRIPTION	ACTIVITY PROPOSED	ENVIRONMENT ASPECT	COST	Timeline	
				Start	End
	Water coolers in school	Sanitation	Rs 2.5 Lacs	May 2021	--

"Proceedings of 194th meeting of SEAC
held on 23.10.2020"

1. Govt. Middle School Saidpura	Plantation of trees all around the boundary wall of schools	Aesthetic & Pollution Control	Rs 2.5 Lacs	June 2021	June 2023
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2. Govt. Middle School Rampur Sainia	Separate Toilets for boys and girls in school	Sanitation	Rs. 12.0 Lacs	May 2022	June 2022
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Kheri Jatan	Water Treatment plant, and pipeline for agricultural field	Sanitation	Rs 23.0 Lacs	June 2020	June 2021
	Cleaning of Pond	Rain harvesting water	Rs 10.0 Lac	June 2020	June 2021
	Total		67 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.

- i. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/ forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions to all shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by 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. 8.5 Crore

as a Capital expenditure and Rs. 8 lacs per annum as recurring expenditure as proposed in the EMP as under:

Sr. No.	Particulars	Approx. Capital Cost (Crore)	Approx. Recurring Cost Annually (Lac)	Parameters Covered
1.	Multi-Cyclone & Scrubbers	Rs 2.50	Rs 2.5	SPM, CO ₂ , NO _x , and ACID MIST
2.	Multi Effect Evaporator (mee)	Rs 3.00	Rs 1.5	----
3.	Incinerator	Rs 1.50	Rs 1.5	SPM, CO, ACID MIST
4.	Effluent Treatment Plant	Rs 1.40	Rs 2.0	pH, TSS, TDS, COD, BOD, O/G, Phenolic Compound, Ammonical Nitrogen & Bio-assay
5.	Green Belt Development	Rs. 0.1	Rs.0.5	Saplings, transportation, fertilizers, horticulturist etc.
TOTAL		Rs. 8.5	Rs 8.0	----

- iv. 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.

XI. ADDITIONAL CONDITIONS:

- i. As proposed, the project proponent shall provide effluent treatment plan to treat the high TDS stream with MEE. The treated waste water will be used in the process for core/non-core activities within the premises to achieve the Zero Liquid Discharge.
- ii. The project proponent shall provide STP of adequate capacity for the treatment of domestic effluent / sewage and shall utilize whole of this treated effluent for horticulture, plantation and green area.
- iii. 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.
- iv. 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.
- v. 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.
- vi. 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.

- vii. The project proponent shall practice rainwater harvesting to maximum possible extent outside premises. For this 1 village pond having volume @ 106260m³, located at Village Fatehpur, 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 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.
- viii. The project proponent shall conduct the following studies and submit the same to SEIAA, Punjab, Regional Office of MOEF, Chandigarh and PPCB with the six monthly report:-
- The project proponent shall conduct AAQ data (except monsoon) at 8 locations for PM₁₀, PM_{2.5}, SO₂, NO_x, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based on CPCB guidelines and take into account the pre dominant wind direction, population zone and sensitive receptors including reserved forests. AAQ data should also include VOC, other process specific pollutants like NH₃, Chlorine, HCL, HBr, H₂S, HF etc.
 - The project proponent shall conduct AAQ measurement for 12 weeks of all stations as per frequency given in the NAQPM Notification of Nov. 2009 along with min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations.
 - The project proponent shall monitor surface water quality of nearby River (60m upstream and downstream) and other surface drains at 8 locations as per CPCB/MoEF&CC guidelines.
 - The project proponent shall monitor the Ground water for heavy metals in addition to routine parameters pre-monsoon and post monsoon. At least 3 samples i.e one from within the premises and two from outside the premises of the project shall be taken.
 - The project proponent shall conduct Noise levels monitoring report at 8 locations within the study area.
 - The project proponent shall conduct Soil Characteristic as per CPCB guidelines.
 - The project proponent shall conduct 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.

The meeting ended with vote of thanks to the Chair.
