

**Proceedings of 257<sup>th</sup> meeting of State Expert Appraisal Committee (SEAC) held on 28.08.2023 at 11:00 AM in the Conference Hall no. 2, MGSIPA Complex, Sector-26, Chandigarh.**

Following were present:

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

**Item No. 01: Confirmation of the proceedings of 255<sup>th</sup> meeting of State Level Expert Appraisal Committee held on 14.08.2023.**

The proceedings of 255<sup>th</sup> meeting of SEAC held on 14.08.2023 were prepared and circulated through email to all the Members. The comments of Sh. K.L Malhotra, Member SEAC received through e-mail on 17.08.2023, were incorporated in the proceedings. SEAC noted the same and confirmed the proceedings of the 255<sup>th</sup> meeting.

**Item No. 02: Action taken on the proceedings of the 255th meeting of State Level Expert Appraisal Committee held on 14.08.2023.**

The action taken on the decisions of 255th meeting of SEAC held on 14.08.2023 have been completed. SEAC noted the same.

**Table Item:                   Representations received from M/s Navyug Company and from President, Ludhiana Tippers Association requesting change in conditions imposed by SEIAA for semi-mechanized mining.**

SEIAA vide letter No. 1131 dated 23.08.2023 forwarded the request letter No. NC/Mining/2023.24/007 (e-mail dated 27.06.2023) of M/s Navyug Company and from President, Ludhiana Tippers Association for change in the conditions mentioned in the amendment letter, while granting amendment in Environmental Clearance to M/s Mahadev Enclave Pvt Ltd are not practical and would hamper mining operations at the site.

**During deliberations 257<sup>th</sup> meeting of SEAC held on 28.08.2023**

The Committee perused letter No. NC/Mining/2023.24/007 dated 23.06.2023 of M/s Navyug Company forwarded by SEIAA vide letter No. SEIAA/MS/2023/1131 dated 23.08.2023 requesting change in conditions imposed by SEIAA for semi-mechanized mining.

The Committee observed that in this case, the Environmental Clearance was given to M/s Mahadev Enclave Pvt. Ltd. by SEIAA vide letter No. SEIAA/MS/2020/1219 dated 16.01.2020. After detailed deliberations, the Committee decided that any request regarding amendment in Environmental Clearance should be given by the Project Proponent through the Department of Mines & Geology, Govt. of Punjab along with their comments on the proposal.

**Item No. 257.01: Application for Environmental Clearance for carrying out mining of minor minerals (sand) at Village Khanpur, Tehsil Baba Bakala , District Amritsar, Punjab, by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Amritsar. (Proposal No. SIA/PB/MIN/440113/2023).**

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Amritsar Division has applied for obtaining Environmental Clearance under category B2 and 1(a) of the Schedule appended with the EIA notification dated 14.09.2006 for carrying out mining of minor minerals (sand) in an area of 2.02 Ha at Village Khanpur (**Agriculture Site & PMS**), Tehsil Baba Bakala , District Amritsar, Punjab.

The Department has deposited requisite fee of Rs. 4040/- paid online for obtaining Environmental Clearance for carrying out mining in the above mining site. The adequacy & deposition of the requisite fee by the applicant has been checked & verified by the supporting staff of SEIAA. The Mining Plan was approved by Assistant Geologist, Punjab vide Letter No. Glg/Pb/M.P/khanpur/1701 dated 09.06.2023.

**Deliberations during 257<sup>th</sup> meeting of SEAC held on 28.08.2023.**

The meeting was attended by the following:

- (i) Mr. Paras Mahajan, Asst. Geologist.
- (ii) Sh. Gurbir Singh, DMO, Amritsar.
- (iii) Sh. Gurmeet Singh, SDO, Amritsar, Department of Mines & Geology.
- (iv) Mr. Arshad Shaik, Senior Executive Technical M/s Right Source Industrial Solutions Pvt Ltd.

The Committee allowed the Environmental Consultant to present the salient features of the application proposal. Thereafter, the Environmental Consultant presented the case as under:

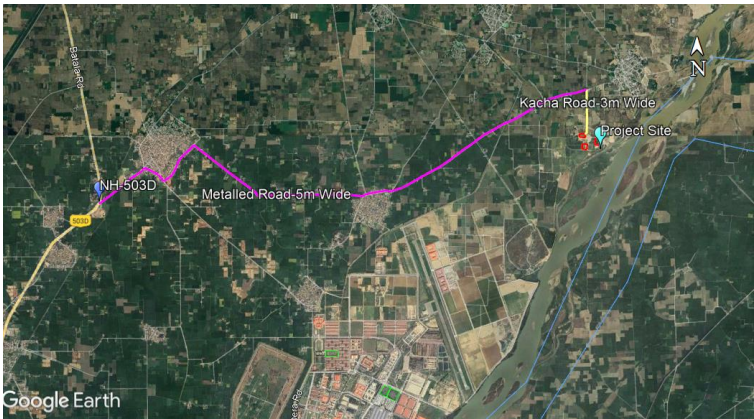
i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	Gurbir Singh, Executive Engineer- cum- District Mining Officer Amritsar, Punjab  9464918920 ee.miningasr@punjab.gov.in
ii)	Name of Environmental Consultant Mobile No. Email ID	Right Source Industrial Solutions Pvt. Ltd  8977495343 eiaemp@rightsource.co.in
iii)	Online Proposal No.	SIA/PB/MIN/440113/2023

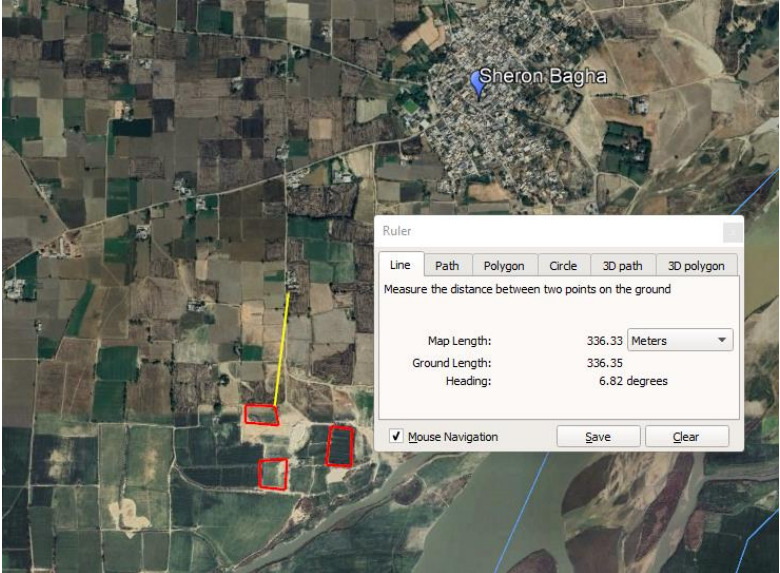
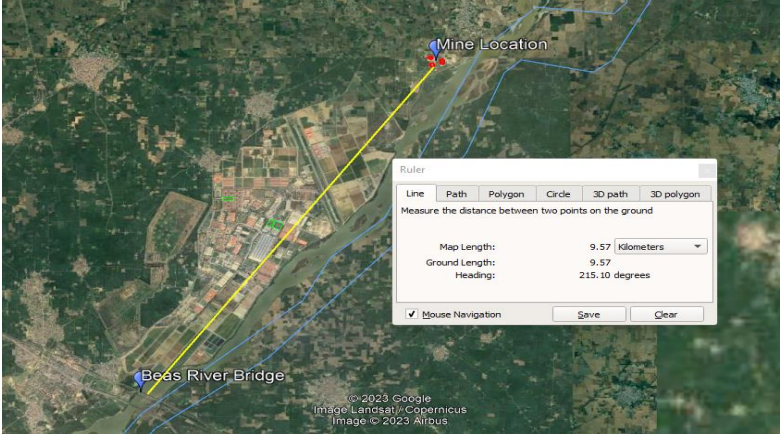
iv)	Project Name & Location	Khanpur Sand Mining Project Village: Khanpur Tehsil- Baba Bakala District- Amritsar, State Punjab
v)	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006.	1(a) Mining of Minor Minerals

**Basic Details of the Case:**

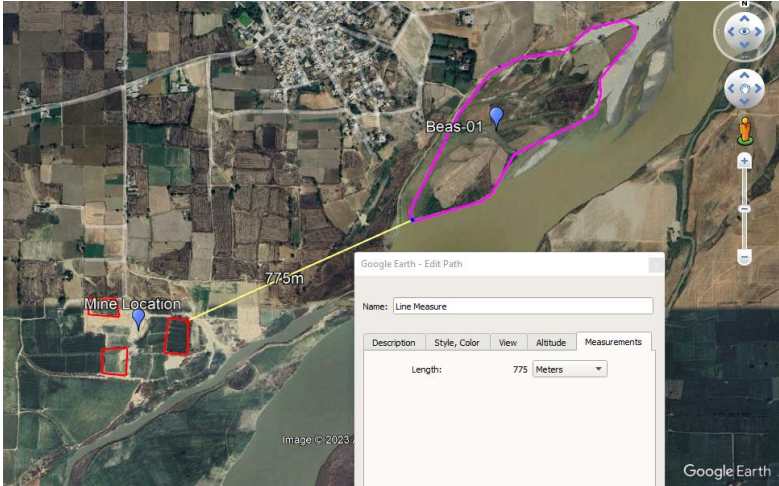
S.No	Item	Details			
i.	Category of the Project as per the EIA notification dated 14.09.2006	B2			
ii.	Hadbast No. of the Village	3			
iii.	Details of Khasra No. as under:				
	<b>Khasra No. as per proposal</b>	<b>Khasra No. as per DSR</b>	<b>Khasra No. as per consent of land</b>	<b>Name of owner of the land as per land NOC, DSR and Jamabandi</b>	
	206//7, 8/1, 16/2, 24, 205//12, <b>19/1</b> , 19/2, 19/3, 19/4, 20	206//7, 8/1, 16/2, 24, 205//12, <b>19/1</b> , 19/2, 19/3, 19/4, 20	206//24, 205//19/2, 19/3, 19/4, 20, 206//7,8/1,205//12	Sukhwinder Singh, Balwinder Singh	
iv.	Whether the mining area is less than area mentioned in the DSR, (If yes) the proposed mining area shall be earmarked in the KML file with different color.	The Khanpur sand mining area mentioned in the DSR is same as per the proposal submitted i.e. 2.02 Ha			
v.	Area & Quantity details as per Mining plan and proposal	2.02 Ha and 25,517.30 MT (As per Proposal)			
		2.02 Ha and 45,828.14 MT (As per DSR)			

	Area and permissible quantity details as per DSR																																														
vi.	Details as per Mining plan	Approved by: Assistant Geologist, Punjab bearing Letter no Glg/Pb/M.P/khanpur/1701. Date of Approval: 09.06.2023 Approved Mining Lease Area: 2.02 Ha. Approved Mining Quantity: 25517.30 TPA																																													
vii.	Longitude & Latitude of the mining site.	<table border="1"> <thead> <tr> <th colspan="3">Geo-Coordinates of the Lease Area</th> </tr> <tr> <th>Pillar No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>RP</td> <td>31°35'9.00"N</td> <td>75°21'54.20"E</td> </tr> <tr> <td>A-1</td> <td>31°35'7.86"N</td> <td>75°21'53.18"E</td> </tr> <tr> <td>A-2</td> <td>31°35'9.69"N</td> <td>75°21'52.75"E</td> </tr> <tr> <td>A-3</td> <td>31°35'9.76"N</td> <td>75°21'49.47"E</td> </tr> <tr> <td>A-4</td> <td>31°35'8.12"N</td> <td>75°21'49.48"E</td> </tr> <tr> <td>B-1</td> <td>31°35'4.67"N</td> <td>75°21'54.10"E</td> </tr> <tr> <td>B-2</td> <td>31°35'4.48"N</td> <td>75°21'51.07"E</td> </tr> <tr> <td>B-3</td> <td>31°35'2.05"N</td> <td>75°21'51.11"E</td> </tr> <tr> <td>B-4</td> <td>31°35'1.81"N</td> <td>75°21'53.94"E</td> </tr> <tr> <td>C-1</td> <td>31°35'4.16"N</td> <td>75°21'58.49"E</td> </tr> <tr> <td>C-2</td> <td>31°35'3.98"N</td> <td>75°22'1.23"E</td> </tr> <tr> <td>C-3</td> <td>31°35'7.50"N</td> <td>75°22'1.35"E</td> </tr> <tr> <td>C-4</td> <td>31°35'7.76"N</td> <td>75°21'59.02"E</td> </tr> </tbody> </table>	Geo-Coordinates of the Lease Area			Pillar No.	Latitude	Longitude	RP	31°35'9.00"N	75°21'54.20"E	A-1	31°35'7.86"N	75°21'53.18"E	A-2	31°35'9.69"N	75°21'52.75"E	A-3	31°35'9.76"N	75°21'49.47"E	A-4	31°35'8.12"N	75°21'49.48"E	B-1	31°35'4.67"N	75°21'54.10"E	B-2	31°35'4.48"N	75°21'51.07"E	B-3	31°35'2.05"N	75°21'51.11"E	B-4	31°35'1.81"N	75°21'53.94"E	C-1	31°35'4.16"N	75°21'58.49"E	C-2	31°35'3.98"N	75°22'1.23"E	C-3	31°35'7.50"N	75°22'1.35"E	C-4	31°35'7.76"N	75°21'59.02"E
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viii.	Details of cluster formation	Submitted																																													
ix.	Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)	Land NOC for the proposed mining site has been obtained from the respective land owners by Project Proponent.																																													
x.	Whether demarcation/erection of boundary pillars on the site has been done.	Submitted.																																													
xi.	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be	In the Sub divisional Committee Report included in the approved DSR, Divisional Forest Officer, Department of Forests and Wildlife Prevention Punjab specified that the land of the above said sand mining site is <u>neither included in Areas notified u/s 4 &amp; 5 of PLPA Act, 1900 nor in Areas falling in the Eco-Sensitive Zones of Wildlife Sanctuary &amp; Conservation</u>																																													

		<u>Reserves cover under Wildlife Protection Act, 1972 and Punjab Wildlife Preservation Act, 1959. This land of above said sand mining site is not forest land and there is no objection in this regard.</u>
xii.	Salient features of approved mining plans.	Approved by: Assistant Geologist, Punjab bearing Letter no Glg/Pb/M.P/khanpur/1701. Date of Approval: 09.06.2023 Approved Mining Lease Area: 2.02 Ha. Approved Mining Quantity: 25517.30 TPA
xiii.	Method of mining.	Opencast Semi-mechanized
xiv.	No. of workers on the site when fully operational.	20
xv.	Total water requirement for domestic and other usage and its source.	Domestic: 0.50 KLD Dust Suppression: 1.00 KLD Green Belt: 1.10 KLD Total: 2.60 KLD
xvi.	Waste water generation and its disposal	Mobile toilet with Septic tank followed by Soak pit.
xvii.	Information regarding nos. of truck/trolleys per day for carrying the excavated material on the proforma prescribed in the DSR and map showing the transportation route with proper earmarking of katcha, pakka road and ROW.	Transportation of sand from mine will be done by dumpers having carriage capacity of appx. 20 tonnes or as per availability of trucks and trolleys.  Transportation route map submitted 
xviii.	Activities to be undertaken under EMP along with its cost.	Submitted.
xix.	Whether any Litigation is pending against the proposed mining site, if	Self-Declaration certifying that No litigation is pending against the proposed mining site has been submitted by the Project Proponent.

	yes the details, thereof, be provided.	
xx.	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	No trees would be felled during mining activity
xxi.	The Department shall earmark, on the KML file, the distance from the habitation area from sand mining site. The Department shall certify that the same is in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.	<p>Sheron Bagha is the nearest village at a distance of 336m towards North direction.</p> 
xxii.	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	<p>Beas River Bridge- 9.57 Km towards SW from the mine lease area.</p> 



xxiii.	In case, the proposed mining site does not include in a cluster, the Department shall earmark on the KML file, the distance from the nearest mining site.	Beas-01 Sand Mine is at a Distance of 775m towards NE from the Mine lease area. 																							
xxiv.	The Department/ Project Proponent shall include in the EMP, the additional environmental activities to be undertaken by incurring expenditure @ Rs. 0.50/ton of the total quantity permitted for mining in ECs in case of manual mining and @ Rs. 1.50/ton in case of semi-mechanized mining. Any of the following additional environmental activities may be undertaken as a part of EMP:	<table border="1" data-bbox="644 819 1439 1420"> <thead> <tr> <th data-bbox="644 819 719 898">S.No.</th> <th data-bbox="719 819 1251 898">Proposed Activities</th> <th data-bbox="1251 819 1439 898">Capital Cost (in Rs.)</th> </tr> </thead> <tbody> <tr> <td data-bbox="644 898 719 976">1</td> <td data-bbox="719 898 1251 976">Solar Lamp distribution in nearby villages</td> <td data-bbox="1251 898 1439 976" rowspan="5">30,000/-</td> </tr> <tr> <td data-bbox="644 976 719 1055">2</td> <td data-bbox="719 976 1251 1055">Provide drinking water in nearby schools</td> </tr> <tr> <td data-bbox="644 1055 719 1133">3</td> <td data-bbox="719 1055 1251 1133">Constructions of sitting benches in Village streets</td> </tr> <tr> <td data-bbox="644 1133 719 1211">4</td> <td data-bbox="719 1133 1251 1211">Plantation of trees with tree guards</td> </tr> <tr> <td data-bbox="644 1211 719 1290">5</td> <td data-bbox="719 1211 1251 1290">Distribution of wheel chairs for the handicapped students</td> </tr> <tr> <td data-bbox="644 1290 719 1368">6.</td> <td data-bbox="719 1290 1251 1368">Additional Environment Activities (12579 Tons) @ Rs 1.5 per ton for Semi-Mechanized Mining</td> <td data-bbox="1251 1290 1439 1368">1.5*12579*2 = 38,277/-</td> </tr> <tr> <td data-bbox="644 1368 719 1420"></td> <td data-bbox="719 1368 1251 1420">Total</td> <td data-bbox="1251 1368 1439 1420">68,277/-</td> </tr> </tbody> </table>				S.No.	Proposed Activities	Capital Cost (in Rs.)	1	Solar Lamp distribution in nearby villages	30,000/-	2	Provide drinking water in nearby schools	3	Constructions of sitting benches in Village streets	4	Plantation of trees with tree guards	5	Distribution of wheel chairs for the handicapped students	6.	Additional Environment Activities (12579 Tons) @ Rs 1.5 per ton for Semi-Mechanized Mining	1.5*12579*2 = 38,277/-		Total	68,277/-
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xxv.	<b>Additional details as under:</b>																								
<b>S.No.</b>		<b>Item</b>																							
1.	a. Capacity of Mine as per the EC application/DSR/Mining plan in MT and TPA	Description	As per the EC application	As per the approved DSR	As per the Mining Plan																				
		Mine Capacity in MT	25517.30	45828.14	25517.30																				

	b. Area of the Mine as per EC application/DSR/Mining plan	Mine Capacity in TPA	12758.65	--	12758.65
		Mining Area on mining in HA	2.02	2.02	2.02
	c. Depth of mining as per EC application/DSR/Mining plan	Depth of Mining in m	2.76	2.76	2.76
		Note: EC cannot be appraised more than quantity and area mentioned in the approved DSR			
2.	Details of Final District Survey Report	Approved by :- SEIAA Reference No: 637 Date of Issue: 18.04.2023			
3.	Cost of the project	Rs. 35,08,629/-			
4.	Environment Management Plan along with Budgetary breakup and responsibility to implement	The Project Proponent Shall submit an undertaking, authorizing an Officer/personnel who will be responsible for the implementation of EMP till the mining activities closed as per the mining plan.			

The Committee observed that the Project Proponent has applied for less quantity of mining i.e., 25517.30 MT in comparison to the permissible mining quantity as approved in the DSR i.e., 45828.14 MT without change in the land area i.e., 2.02 Ha. The Committee asked the Project Proponent to explain the same.

The Project Proponent informed that the proposed area of mining site has been reduced as compared to area mentioned in the application proposal because they are not getting the NOCs for the total land area from the land owners. In such case, the Committee asked the Project Proponent to revise the proposal as well as the Mining Plan. The Department agreed to the same. After detailed deliberations, SEAC decided to defer the case till the reply of the below mentioned observations:

- (i) The Project Proponent shall submit the revised proposal along with revised Mining Plan.
- (ii) The Project Proponent shall submit the layout plan by superimposing the proposed mining area with the area approved in the DSR in different colors.
- (iii) The Project Proponent shall submit the revised Environment Management Plan.
- (iv) The Project Proponent shall revise the proposal for carrying out the transportation of the mining material through tippers of capacity not exceeding 10 Tons.

- (v) The Project Proponent shall submit an undertaking duly signed by the DMO to the effect that the khasra Nos & area mentioned in the application proposal are as per the land NOC and latest jamabandi of proposed mining site.

**Item No. 257.02:** Application for Environmental Clearance for carrying out mining of minor minerals (sand) at Village Khanwal, Tehsil Ajnala , District Amritsar, Punjab., by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Amritsar. (Proposal No. SIA/PB/MIN/440296/2023).

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Amritsar Division has applied for obtaining Environmental Clearance under category B2 and 1(a) of the Schedule appended with the EIA notification dated 14.09.2006 for carrying out mining of minor minerals (sand) in an area of 1.60 Ha at Village Khanwal (**Agriculture Site & PMS**), Tehsil Ajnala, District Amritsar, Punjab.

The Department has deposited requisite fee of Rs. 3200/- paid online for obtaining Environmental Clearance for carrying out mining in the above mining site. The adequacy & deposition of the requisite fee by the applicant has been checked & verified by the supporting staff of SEIAA. The Mining Plan was approved by Assistant Geologist, Punjab vide Letter No. Glg/Pb/M.P./khanwal/1907 dated 07.07.2023.

**Deliberations during 257<sup>th</sup> meeting of SEAC held on 28.08.2023.**

The meeting was attended by the following:

- (i) Mr. Paras Mahajan, Asst. Geologist.
- (ii) Sh. Gurbir Singh, DMO, Amritsar.
- (iii) Sh. Gurmeet Singh, SDO, Amritsar, Department of Mines & Geology.
- (iv) Mr. Arshad Shaik, Senior Executive Technical M/s Right Source Industrial Solutions Pvt Ltd.

The Committee allowed the Environmental Consultant to present the salient features of the application proposal. Thereafter, the Environmental Consultant presented the case as under:

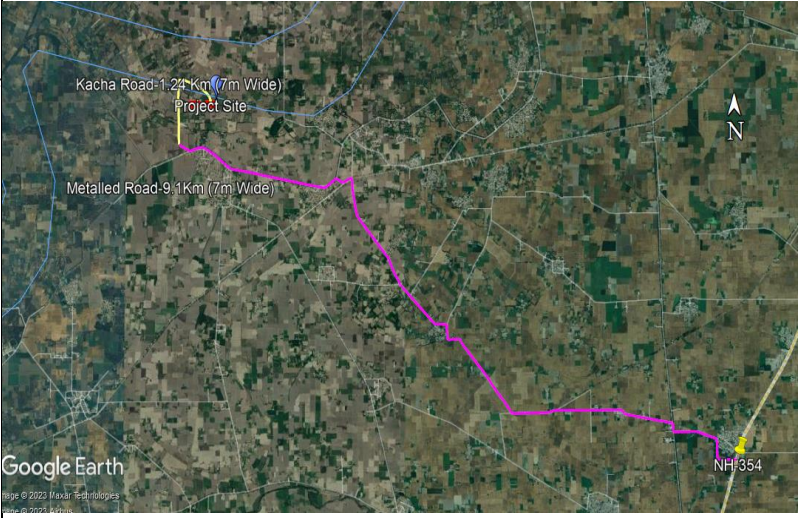
i)	Name of Applicant & Correspondence address:  Mobile No: Email ID:	Gurbir Singh, Executive Engineer- cum- District Mining Officer Amritsar, Punjab 9464918920 ee.mining@punjab.gov.in
ii)	Name of Environmental Consultant Mobile No. Email ID	Right Source Industrial Solutions Pvt. Ltd 8977495343 eiaemp@rightsource.co.in
iii)	Online Proposal No.	SIA/PB/MIN/440296/2023
iv)	Project Name & Location	Khanwal Sand Mining Project Village: Khanwal Tehsil- Ajnala District- Amritsar, State Punjab

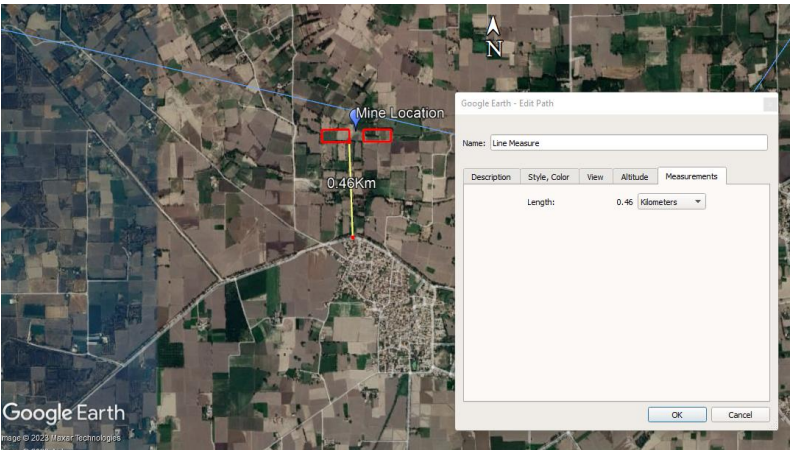
v)	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals
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**Basic Details of the Case:**

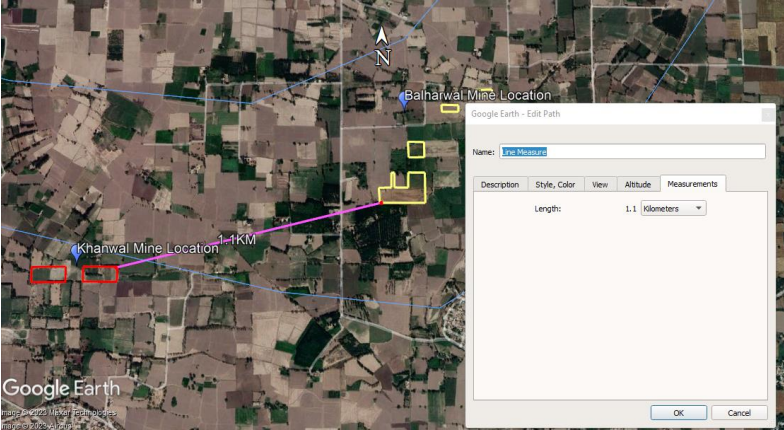
S.No	Item	Details	
i.	Category of the Project as per the EIA notification dated 14.09.2006	B2	
ii.	Hadbast No. of the Village	43	
iii.	Details of Khasra No. as under:		
	<b>Khasra No. as per proposal</b>	<b>Khasra No. as per DSR</b>	<b>Khasra No. as per consent of land</b>
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Name of owner of the land as per land NOC, DSR and Jamabandi	Amar Singh, S/o Kartar Singh		
	iv.	Whether the mining area is less than area mentioned in the DSR, (If yes) the proposed mining area shall be earmarked in the KML file with different color.	As per DSR, Khanwal Mining area is 1.92 Hect. As per Proposal, Khanwal Mining area is 1.60 Hect.
v.	Area & Quantity details as per Mining plan and proposal	1.60 Ha and 38,419.2 MT (As per Proposal)	
	Area and permissible quantity details as per DSR	1.92 Ha and 46,103.04 MT (As per DSR)	
vi.	Details as per Mining plan	Approved by: Assistant Geologist, Punjab bearing Letter no Glg/Pb/M.P/khanwal/1907.	

		Date of Approval: 07.07.2023 Approved Mining Lease Area: 1.60 Ha. Approved Mining Quantity:38419.2 MT																														
vii.	Longitude & Latitude of the mining site.	<table border="1"> <thead> <tr> <th colspan="3">Geo-Coordinates of the Lease Area</th> </tr> <tr> <th>Pillar No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A1</td> <td>31°54'8.20"N</td> <td>74°41'38.67" E</td> </tr> <tr> <td>A2</td> <td>31°54'10.12"N</td> <td>74°41'38.67"E</td> </tr> <tr> <td>A3</td> <td>31°54'10.18"N</td> <td>74°41'43.75"E</td> </tr> <tr> <td>A4</td> <td>31°54'8.22"N</td> <td>74°41'43.77"E</td> </tr> <tr> <td>B1</td> <td>31°54'8.25"N</td> <td>74°41'46.34"E</td> </tr> <tr> <td>B2</td> <td>31°54'10.17"N</td> <td>74°41'46.34" E</td> </tr> <tr> <td>B3</td> <td>31°54'10.18"N</td> <td>74°41'51.42"E</td> </tr> <tr> <td>B4</td> <td>31°54'8.25"N</td> <td>74°41'51.42"E</td> </tr> </tbody> </table>	Geo-Coordinates of the Lease Area			Pillar No.	Latitude	Longitude	A1	31°54'8.20"N	74°41'38.67" E	A2	31°54'10.12"N	74°41'38.67"E	A3	31°54'10.18"N	74°41'43.75"E	A4	31°54'8.22"N	74°41'43.77"E	B1	31°54'8.25"N	74°41'46.34"E	B2	31°54'10.17"N	74°41'46.34" E	B3	31°54'10.18"N	74°41'51.42"E	B4	31°54'8.25"N	74°41'51.42"E
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viii.	Details of cluster formation	An undertaking has been submitted by the Project Proponent stating that there is no cluster formation within 500m of the proposed mining site.																														
ix.	Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)	Land NOC for the proposed mining site has been obtained from the respective land owners.																														
x.	Whether demarcation/erection of boundary pillars on the site has been done.	Demarcation report has been submitted.																														
xi.	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be	In the Sub divisional Committee Report included in the approved DSR, Divisional Forest Officer, Department of Forests and Wildlife Prevention Punjab specified that the land of the above said sand mining site is <u>neither included in Areas notified u/s 4 &amp; 5 of PLPA Act, 1900 nor in Areas falling in the Eco-Sensitive Zones of Wildlife Sanctuary &amp; Conservation Reserves cover under Wildlife Protection Act, 1972 and Punjab Wildlife Preservation Act, 1959. This land of above said sand mining site is not forest land and there is no objection in this regard.</u>																														
xii.	Salient features of approved mining plans.	Approved by: Assistant Geologist, Punjab bearing Letter no Glg/Pb/M.P/khanwal/1907. Date of Approval: 07.07.2023 Approved Mining Lease Area: 1.60 Ha. Approved Mining Quantity:38419.2 MT (19209.6 TPA)																														
xiii.	Method of mining.	Opencast Semi-mechanized																														

xiv.	No. of workers on the site when fully operational.	20			
xv.	Total water requirement for domestic and other usage and its source.	Domestic: 1.10 KLD Dust Suppression: 0.50 KLD Green Belt: 1.00 KLD Total: 2.60 KLD			
xvi.	Waste water generation and its disposal	Mobile toilet with Septic tank followed by Soak pit.			
xvii.	Information regarding nos. of truck/trolleys per day for carrying the excavated material on the proforma prescribed in the DSR and map showing the transportation route with proper earmarking of katcha, pakka road and ROW.	Transportation of sand from mine will be done by dumpers having carriage capacity of appx. 20 tonnes or as per availability of trucks and trolleys. Transportation route map submitted			
					
viii.	Activities to be undertaken under EMP along with its cost.	<b>Sr. No.</b>	<b>Environment mitigation measure</b>	<b>Capital Cost (In Lacs)</b>	<b>Recurring Cost (Lacs/ annum)</b>
		1.	Env. Monitoring for Air, Water, Noise & Soil	-	1.00
		2.	Haul Road Maintenance including water sprinkling on road for dust suppression	-	0.50

		3.	Greenbelt development Plantation of 80 saplings (1.60 ha mining lease area @50 plants/ha and Rs 1000 per sapling for plantation + Rs 1000/ sapling for maintenance)	5.87	2.93
		4.	Mobile Toilet	0.4	-
		5.	Tarpaulin Cover	0.3	-
		6.	Safety Shoe, Dust Masks, Ear Plugs	0.7	-
		7.	First Aid Kit	0.5	-
		8.	Man Power cost for environmental cell	0.5	-
		<b>Total</b>		<b>8.27</b>	<b>4.43</b>
xix.	Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.	Self-Declaration certifying that No litigation is pending against the proposed mining site has been submitted by the Project Proponent.			
xx.	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	No trees would be felled during mining activity			
xxi.	The Department shall earmark, on the KML file, the distance from the habitation area from sand mining site. The Department shall certify that the same is in consonance with the existing guidelines allowing the Department for carrying out the	Khanwal is the nearest village at a distance of 0.46Km towards South direction.			
					



	mining near the habitation area.																					
xxii.	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	The sand mine falls in agricultural land, so that there is no nearest rail or road bridge over the concerned River, Rivulet, Nala etc. No such facility within the 10km Radius.																				
xxiii.	In case, the proposed mining site does not include in a cluster, the Department shall earmark on the KML file, the distance from the nearest mining site.	Balharwal Sand Mine is at a Distance of 1.1 Km towards ENE from the Khanwal Mine lease area. 																				
xxiv.	The Department/ Project Proponent shall include in the EMP, the additional environmental activities to be undertaken by incurring expenditure @ Rs. 0.50/ton of the total quantity permitted for mining in ECs in case of manual mining and @ Rs. 1.50/ton in case of semi-mechanized mining. Any of the following additional environmental activities may be undertaken as a part of EMP:	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Proposed Activities</th> <th>Capital Cost (inRs.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Solar Lamp distribution in nearby villages</td> <td rowspan="5">40,000/-</td> </tr> <tr> <td>2</td> <td>Provide drinking water in nearby schools</td> </tr> <tr> <td>3</td> <td>Constructions of sitting benches in Village streets</td> </tr> <tr> <td>4</td> <td>Plantation of trees with tree guards</td> </tr> <tr> <td>5</td> <td>Distribution of wheel chairs for the handicapped students</td> </tr> <tr> <td>6.</td> <td>Additional Environment Activities (38,419.2 Tons @ Rs 1.5 per ton for Semi-Mechanized Mining</td> <td>57,629/-</td> </tr> <tr> <td></td> <td>Total</td> <td>97629</td> </tr> </tbody> </table>	S.No.	Proposed Activities	Capital Cost (inRs.)	1	Solar Lamp distribution in nearby villages	40,000/-	2	Provide drinking water in nearby schools	3	Constructions of sitting benches in Village streets	4	Plantation of trees with tree guards	5	Distribution of wheel chairs for the handicapped students	6.	Additional Environment Activities (38,419.2 Tons @ Rs 1.5 per ton for Semi-Mechanized Mining	57,629/-		Total	97629
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1.	a.	Capacity of Mine as per the EC application/DSR/Mining plan in MT and TPA	Description	As per the EC application	As per the approved DSR	As per the Mining Plan
			Mine Capacity in MT	38419.2	76838.40	38419.2
	b.	Area of the Mine as per EC application/DSR/Mining plan	Mine Capacity in TPA	19209.6	--	19209.6
	c.	Depth of mining as per EC application/DSR/Mining plan	Mining Area on mining in HA	1.60	1.92	1.60
			Depth of Mining in m	2.76	2.76	2.76
2.	Details of Final District Survey Report		Approved by :- SEIAA Reference No: 637 Date of Issue: 18.04.2023			
3.	Cost of the project		Not mentioned			
4.	Environment Management Plan along with Budgetary breakup and responsibility to implement		Submitted			

During meeting, the Project Proponent presented the KML file by superimposing the proposed site as per the application proposal and as approved in the DSR of District Amritsar. As per the said KML file, the proposed area of mining site measuring 1.60 Ha falls within the area of mining site approved in the DSR. The Committee noted the same.

The Committee further asked the Project Proponent that the amount allocated for the green belt development be deposited with Forest Department for utilization. The Project Proponent agreed to the same and submitted the revised EMP as under:

Sr. No.	EMP Budget Capital & Recurring	Capital Cost (INR)	Recurring Cost (INR)
1	Repairing of road for transport of mining material and its subsequent maintenances	10,000	5,000
2	Water Sprinkling Measures	10,000	5,000
3	Drinking water facility, Septic Tank & Mobile toilet and Solid Waste Management	20,000	5,000
4	Safety Shoes/Dust Masks/Ear Plugs/First aid kit.	10,000	4,000
	<b>Additional Env. Activities</b>		
1	(Green Belt Development Amount will be deposited to forest department for utilization for development of greenbelt)	32,016	16008

	<b>Total</b>	<b>82016</b>	<b>35008</b>
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After detailed deliberations, SEAC decided to forward the application proposal to SEIAA with the recommendation to grant Environment Clearance under EIA Notification dated 14.09.2006 for carrying out mining of minor minerals (sand) in the area of 1.60 Ha for the quantity of 38,419.2 MT, which shall not exceed the quantity of 46,103.04 MT as per the approved DSR at Village Khanwal, Tehsil Ajnala, District Amritsar, Punjab subject to the conditions attached as **Annexure-2**.

**Item No. 257.03: Application for Environmental Clearance for carrying out mining of minor minerals (sand) at Village Dollowal, Tehsil and District Roopnagar, Punjab, by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Roopnagar. (Proposal No. SIA/PB/MIN/427705/2023).**

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Roopnagar Division has applied for obtaining Environmental Clearance under category B2 and 1(a) of the Schedule appended with the EIA notification dated 14.09.2006 for carrying out mining of minor minerals (sand) in an area of 2.09 Ha at Village Dollowal (**Agricultural & CMS**) Tehsil & District Rupnagar, Punjab.

The Department has deposited requisite fee of Rs. 4,180/- paid online for obtaining Environmental Clearance for carrying out mining in the above mining site. The adequacy & deposition of the requisite fee by the applicant has been checked & verified by the supporting staff of SEIAA. The Mining Plan was approved by Assistant Geologist, Punjab vide Letter No. Glg/Pb/M.P/Dolowal /1174 dated 19.04.2023.

**Deliberations during 257<sup>th</sup> meeting of SEAC held on 28.08.2023.**

The meeting was attended by the following:

- (i) Mr. Paras Mahajan, Asst. Geologist.
- (ii) Sh. Harshant Kumar, XEN, Drainage Cum-Mining Divisional Ropar.
- (iii) Sh. Harpreet Singh, SDO, Drainage Cum-Mining Divisional Ropar.
- (iv) Dr. Sandeep Garg, EC-Coordinator M/s Eco Paryavaran Laboratory Pvt Ltd.

The Committee allowed the Environmental Consultant to present the salient features of the application proposal. Thereafter, the Environmental Consultant presented the case as under:

i)	Name of Applicant & Correspondence address:  Mobile No:Email ID:	XEN/DMO, Drainage-um-mining and Geology Division, WRD,, Punjab, Room No. 145, D.C. Complex, Mini Secretariat, Rupnagar, 9878688998 rupinder.p@punjab.gov.in
ii)	Name of Environmental Consultant  Mobile No. Email ID	Eco Paryavaran Laboratories & Consultants Pvt. Ltd. (formerly Eco Laboratories & Consultants Pvt. Ltd.) 8872043178 md@ecoparyavaran.org
iii)	Online Single window no.	SW/127353/2023
iv)	Project Name & Location	RBM Sand Mining Project Village: Dollowal Tehsil & District- Rupnagar,

		State Punjab
v)	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals

**1.0 The details of the mining project are as under:**

S.No.	Item	Details		
a.	Category of the Project as per the EIA notification dated 14.09.2006	B2		
b.	Hadbast No. of the Village	344		
c.	Details of Khasra No. as under:			
	<b>Khasra No. as per proposal</b>	<b>Khasra No. as per DSR</b>	<b>Khasra No. as per consent of land</b>	<b>Name of owner of the land per land NOC, DSR and Jamabandi</b>
	531/2	1896/531(55-18)	1896/531(55-18)	Tejinder Singh
d.	Whether the mining area is less than area mentioned in the DSR,(If yes) the proposed mining area shall be earmarked in the KML file with different colour.	Yes		
d.1	(i) Area & Quantity details as per Mining plan and proposal	(i) 2.09 Ha and 40825 MT		
	(ii) Area and permissible quantity details as per DSR	(ii) 2.09 Ha and 40825 MT		
e	Longitude & Latitude of the mining site	<b>Pillar No.</b>	<b>Latitude</b>	<b>Longitude</b>
		1	31°12'0.54"N	76°34'42.17"E
		2	31°11'59.54"N	76°34'46.18"E
		3	31°11'53.48"N	76°34'48.05"E
		4	31°11'53.86"N	76°34'43.76"E
f.	Details of cluster formation	No cluster is formed. An undertaking in this regard submitted.		

g.	Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)	Land NOC submitted.
h.	Whether demarcation/erection of boundary pillars on the site has been done.	Demarcation Report submitted.
i.	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be	In the Sub divisional Committee Report included in the approved DSR, Divisional Forest Officer, Department of Forests and Wildlife Prevention Punjab specified that the land of the above said sand mining site is <u>neither included in Areas notified u/s 4 &amp; 5 of PLPA Act, 1900 nor in Areas falling in the Eco-Sensitive Zones of Wildlife Sanctuary &amp; Conservation Reserves cover under Wildlife Protection Act, 1972 and Punjab Wildlife Preservation Act, 1959. This land of above said sand mining site is not forest land and there is no objection in this regard.</u>
j.	Salient features of approved mining plans	Salient features of approved mining plan are presented in Pre-feasibility Report (PFR) and Environment Management Plan (EMP) submitted.
k.	Method of mining	Open cast semi-mechanized
l.	No. of workers on the site when fully operational	9
m.	Total water requirement for domestic and other usage and its source	Domestic: 0.50 KLD Dust Suppression: 2.2 KLD Green Belt: 0.4 KLD (recycled) <b>Total: 2.70KLD</b>
n.	Waste water generation and its disposal	Mobile toilet with Septic tank followed by Soak pit.
o.	Information regarding no. of truck/trolleys per day for carrying the excavated material on the proforma prescribed in the DSR and map showing the transportation route with proper earmarking of katcha, pakka road and ROW.	Transportation of gravel from mine will be done by dumpers having carriage capacity of appx. 10 tonnes or as per availability of trucks and trolleys. Transportation route map will be presented before Committee.
p.	Activities to be undertaken under <b>EMP</b> along with its cost.	

S. No.	Description	Total Cost to be Incurred (in Rs)	Recurring cost (Rs.)
1	Water Sprinkling Measures to be done on haul road to suppress dust	1,50,000	70,000
2	Haul Road and other Roads Repair	2,00,000	1,00,000
3	Septic tank & Mobile toilets and Solid Waste	65,000	20,000
4	Greenbelt Development (with tree guards) (Plantation cost 2.09 Ha x 50 saplings/Ha= 104.5 saplings @ Rs.1000 per sapling)	1,04,500	50,000
5	Management Safety shoes/ Masks/ Earplugs/ First Aid Kit etc.	20,000	5,000
6	Additional Environmental Responsibilities (Rs. 1.5 per MT of Total quantity= 40875*1.5)	61,300	-
	<b>TOTAL</b>	<b>6,00,800</b>	<b>2,45,000</b>
q.	Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.	No litigation is pending against the proposed mining site Self-Declaration certificate submitted	

i)	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	No trees would be felled during mining activity
ii)	The Department shall earmark, on the KML file, the distance from the habitation area from sand mining site. The Department shall certify that the same is in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.	Distance from nearest habitation is 450 m. The same has been incorporated in the KML file and will be presented before the committee.
iii)	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Nearest Bridge is 1.46 Km from the project site in West direction

iv)	In case, the proposed mining site does not include in a cluster, the Department shall earmark on the KML file, the distance from the nearest mining site.	Not Applicable				
v)	The Department shall outline the environmental impact of the mining operations carried out at site. The Department shall also mention the mitigation measures proposed for mitigating the environmental impacts	The key impact areas for mining operations are: Air, land, water, noise etc. Impacts identified for the said mining site along with the proposed mitigation measures are enclosed in EMP submitted.				
vi)	<b>Additional details as under:</b>					
	<b>S.No.</b>	<b>Item</b>	<b>Details</b>			
	1.	a. Capacity of Mine as per the EC application/DSR/Mining plan in MT and TPA	Description	As per the EC application	As per the approved DSR	As per the Mining Plan
			Mine Capacity in MT	40875	69372	40875
		b. Area of the Mine as per EC application/DSR/Mining plan	Mine Capacity in TPA	13625	--	13625
		c. Depth of mining as per EC application/DSR/Mining plan	Mining Area on mining in HA	2.09	2.82	2.09
			Depth of Mining in m	2.50	2.50	2.50
	2.	Details of Final District Survey Report	Approved by:- SEIAA Reference No: 1086 Date of Issue: 17.08.2023			
	3.	Cost of the project	Rs. 57,22,500/-			
	4.	Environment Management Plan along with Budgetary breakup and responsibility to implement	The Project Proponent Shall submit an undertaking, authorizing an Officer/personnel who will be responsible for the implementation of EMP till the mining activities closed as per the mining plan.			

During meeting, the Project Proponent presented the KML file by superimposing the area of proposed site as per the application proposal and as per the approved DSR of District Roopnagar.



As per the said KML file, the proposed area of mining site measuring 2.09 Ha falls within the area of mining site approved in the DSR. The Committee noted the same.

The Committee further asked the Project Proponent that the amount allocated for the green belt development be deposited with Forest Department. The Project Proponent agreed to the same and submitted the revised EMP as under:

Sr. No.	Environment mitigation measure	Capital Cost (In Lacs)	Recurring Cost (Lacs/Annum)
1	Repairing of road for transport of mining material and its subsequent maintenance	1,50,000	60,000
2	Water Sprinkling Measures	50,000	50,000
3	Drinking water facility, Septic Tank & Mobile toilets and solid waste management	65,000	20,000
4	Safety shoes/masks/earplugs/ first aid kit etc	20,000	5,000
	<b>Additional Environment Activities</b>		
5	Rs. 1.5 per MT of Total quantity= 40875*1.5) (The amount will be deposited to Forest Department for utilization of the same for development of green area(s)/belt(s))	61,300	-
6	Regular health check-up camps for the workers engaged in mines shall be organized.	104,500	50,000
7	Environmental Monitoring (Air, Water Soil etc.).	1,50,000	75,000
	<b>Total</b>	<b>6,00,800</b>	<b>2,60,000</b>

After detailed deliberations, SEAC decided to forward the application proposal to SEIAA with the recommendation to grant Environment Clearance under EIA Notification dated 14.09.2006 for carrying out mining of minor minerals (sand) in the area of 2.09 Ha for the quantity of 40825 MT, which shall not exceed the quantity of 40825 MT as per the approved DSR at Village Dollowal, Tehsil and District Roopnagar, Punjab subject to the conditions attached as **Annexure-2**.

**Item No. 257.04: Application for Environmental Clearance under EIA Notification dated 14.09.2006 for establishment of Residential Group Housing Project namely “Pavitra Luxury Residences” at Village Nabha, Zirakpur, Distt. SAS Nagar, Punjab by M/s Pavitra Homes (Proposal No. SIA/PB/INFRA2/438091/2023)**

The project proponent has applied for Environmental Clearance for establishment of Residential Group Housing Project namely “Pavitra Luxury Residences” at Village Nabha, Zirakpur, Distt. SAS Nagar, Punjab.

The land area of the project is 23,926.115 (5.910 acres) having built-up area 1,12,850.882 sq.m. The project is covered under category 8(a) of the schedule appended with EIA notification dated 14.09.2006.

The project proponent has submitted conceptual plan, Form I, Form IA and other additional documents through Parivesh portal. He has also deposited Rs. 2,25,702 vide NEFT No. KKBKH23195632286 dated 14.07.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

The project site was visited by Punjab pollution control board on 07/08/2023 and it was observed as under:

1. *As per the Site shown by representative, no site development work has been started at the site and the site is empty plot.*
2. *As physically observed, the distance of the proposed site from the various approved existing operational industries /units ( for which specific siting guidelines has been issued by the board for time to time), is more then the required distance as per the sitting criteria given as under:*

<b>Sr.No.</b>	<b>Type of Industrial unit</b>	<b>Required Distance as per sitting Criteria</b>
1.	<i>Cement plant /Grinding Unit</i>	<i>300m</i>
2.	<i>Rice Sheller / Salla Plant</i>	<i>500m</i>
3.	<i>Stone Crushing /Screening Cum Washing Plant</i>	<i>500m</i>
4.	<i>Hot Mix Plant</i>	<i>300m</i>
5.	<i>Brick Kiln</i>	<i>300m</i>
6.	<i>CBWTF</i>	<i>500m</i>
7.	<i>Poultry farm</i>	<i>500m</i>
8.	<i>Jaggery Unit</i>	<i>200m</i>

3. *There is no drain, river, eco-sensitive structure within 500m boundary of the project site.*

4. The site is complying with general siting criteria as per policy dated 30.04.2013 and specific sitting guidelines as per the Department of Science, Technology & Environment, Govt of Punjab notification No. 3/6/07/STE(4)/2274 dated 25/7/2008.

**Deliberations during 257<sup>th</sup> meeting of SEAC held on 28.08.2023.**

The meeting was attended by the following:

- (i) Mr. Lakshit Gupta, Partner M/s Pavitra Homes
- (ii) Dr. Sandeep Garg, EC-Coordinator M/s Eco Paryavaran Laboratory Pvt Ltd.

The Committee allowed the Environmental Consultant to present the salient features of the application proposal. Thereafter, the Environmental Consultant presented the case as under:

Sr. No.	Description	Details
<b>1</b>	<b>Basic Details</b>	
1.1	Name of Project & Project Proponent:	Residential Group Housing Project namely "Pavitra Luxury Residences" by M/s Pavitra Homes
1.2	Proposal:	SIA/PB/INFRA2/438091/2023
1.3	Location of Project:	Village Nabha, Zirakpur, Distt. SAS Nagar, Punjab
1.4	Details of Land area & Built up area:	Project Plot Area = 23,926.115 sqm (5.910 acres) Net Plot Area = 23,231.877 sq.m. (5.739 acres) Built-up Area = 1,12,850.882 sq.m
1.5	Category under EIA notification dated 14.09.2006	The project falls under S.No. 8(a) 'Building & Construction Project' as the built-up area of the proposed project will be 1,12,850.882 sq.m.
1.6	Cost of the project	Rs. 80 Crores
<b>2.</b>	<b>Site Suitability Characteristics</b>	
2.1	Whether project is suitable as per the provisions of Master Plan:	Yes. The project falls in Residential zone as per Master Plan of Zirakpur. Copy of Master Plan of Zirakpur showing the project location is attached along with application.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	Approval for change in land use has been obtained from Local Government, Punjab for 23,926.115 sq.m. (5.910 acres) of land vide Memo No. PB/CLU/SAS/ZIRAK/3022 dated 06.02.2023 and is attached along with application.
<b>3</b>	<b>Forest, Wildlife and Green Area</b>	

3.1	Whether the project required clearance under the provisions of Forest Conservations Act 1980 or not:	No forest land is involved in the project. Self-declaration in this regard is attached along with application.																																				
3.2	Whether the project required clearance under the provisions of Punjab Land Preservation Act (PLPA), 1900.	Project is not covered under PLPA, 1900. Self-declaration in this regard is attached along with application.																																				
3.3	Whether project required clearance under the provisions of Wildlife Protection Act 1972 or not:	No. The project does not require clearance under Wildlife Protection Act, 1972. Self-declaration in this regard is attached along with application.																																				
3.4	Whether the project falls within the influence of Eco-Sensitive Zone or not.	No. The project falls outside eco-sensitive zone of City Bird Sanctuary and Sukhna Wildlife Sanctuary.																																				
3.5	Green area requirement and proposed No. of trees:	Total proposed green area = 6,423.129 sq.m. No. of trees required = 502 trees No. of trees proposed = 503 trees																																				
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**Tower wise area details**

Description	No. of Floors	No. of Dwelling Units	FAR (in sq.m.)	Non-FAR (in sq.m.)
<b>Residential Towers</b>				
● Tower 1	S+16	504	7,587.702	2,886.076
● Tower 2	S+16		7,379.067	2,830.541
● Tower 3	S+16		7,379.067	2,830.541
● Tower 4	S+16		7,379.067	2,830.541
● Tower 5	S+16		7,379.067	2,830.541
● Tower 6	S+16		7,587.702	2,886.076
● Tower 7	S+16		7,587.702	2,886.076
● Tower 8	S+16		7,587.702	2,886.076
● Tower 9	S+9	36	2,255.896	1,009.146
● Tower 10	S+9		2,255.896	1,009.146
● Tower 11 (EWS)	S+14	54	3,854.590	1,945.321
<b>Total</b>		<b>594 DUs</b>	<b>68,233.458</b>	<b>26,830.081</b>
<b>Commercial Shopping</b>	G+1	18 Nos.	736.64	27.598
<b>Community Centre-01</b>	G	1 No.	712.394	38.745
<b>Basement</b>	--	--	--	16,271.966
<b>Grand Total</b>			<b>69,682.492</b>	<b>43,168.390</b>

Details of the total land area, FAR area and green area mentioned above are as per the approval layout plan.

**Built up area details**

S. No.	Details	Built-up Area (in sq.m.)
1.	Residential Towers	95,063.539
2.	Commercial Shopping	764.238
3.	Community Centre-01	751.139
4.	Basement Area	16,271.966
<b>Total</b>		<b>1,12,850.882 m<sup>2</sup></b>

## 4.2 Population details

**Table 4: Population details**

Description	Factors as per NBC (Number of people)	Dwelling units / Area (in sq.m.)	Population
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<b>RESIDENTIAL TOWERS</b>																																																											
3 BHK	6 persons per DU	540	3,240																																																								
2 BHK	5 persons per DU	54	270																																																								
<b>TOTAL</b>				<b>3,510</b>																																																							
Visitors	@ 10%	-	-	351																																																							
Staff	Lumpsum	-	-	10																																																							
<b>Sub Total</b>				<b>3,871</b>																																																							
<b>COMMERCIAL SHOPS (G+1)</b>																																																											
1. Ground Floor	3 m <sup>2</sup> /person	368.928	123																																																								
2. First Floor	6 m <sup>2</sup> /person	367.712	61																																																								
<b>Sub Total</b>				<b>184</b>																																																							
<b>Staff (@ 10%)</b>				<b>18</b>																																																							
<b>Visitors (@ 90%)</b>				<b>166</b>																																																							
<b>COMMUNITY CENTRE 01</b>																																																											
Community Centre 1	1.4 m <sup>2</sup> /person	712.39	509																																																								
<b>Sub Total</b>				<b>509</b>																																																							
<b>STAFF (@ 10%)</b>				<b>50</b>																																																							
<b>VISITORS (@ 90%)</b>				<b>459</b>																																																							
<b>TOTAL POPULATION = 4,564 Persons</b>																																																											
<b>5</b>	<b>Water</b>																																																										
5.1	<p>Total fresh water requirement:  Fresh water during summer season = 323 KLD. Water demand calculations are given below:  <b><u>Water demand &amp; wastewater generation calculations</u></b></p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Details</th> <th>Population</th> <th>Criteria</th> <th>Water Demand (KLD)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Residential population</td> <td>3,510</td> <td>@ 135 lpcd</td> <td>474</td> </tr> <tr> <td>2.</td> <td>Staff</td> <td>78</td> <td>@ 45 lpcd</td> <td>3.5</td> </tr> <tr> <td>3.</td> <td>Visitors</td> <td>976</td> <td>@ 15 lpcd</td> <td>14.6</td> </tr> <tr> <td>4.</td> <td colspan="3"><b>Water Requirement</b></td> <td><b>492</b></td> </tr> <tr> <td>5.</td> <td colspan="3">Wastewater Generation (@ 80% of water requirement)</td> <td>394</td> </tr> <tr> <td>6.</td> <td colspan="3">Treated Sewage (@ 98%)</td> <td>386</td> </tr> <tr> <td>7.</td> <td colspan="3">Flushing Water Requirement (@ 45 lpcd for residential population, @ 20 lpcd for floating population &amp; @ 10 lpcd for visitors)</td> <td>158+1.6+9.8 =169</td> </tr> <tr> <td>8.</td> <td colspan="3"><b>Total Fresh Water Demand</b></td> <td><b>492 – 169 = 323 KLD</b></td> </tr> <tr> <td>9.</td> <td colspan="3"><b>Green area water req. for 6423.129 sq.m.</b></td> <td></td> </tr> <tr> <td></td> <td colspan="3">• Summer (@ 5.5 lt./m<sup>2</sup>/day)</td> <td>35</td> </tr> </tbody> </table>				Sr. No.	Details	Population	Criteria	Water Demand (KLD)	1.	Residential population	3,510	@ 135 lpcd	474	2.	Staff	78	@ 45 lpcd	3.5	3.	Visitors	976	@ 15 lpcd	14.6	4.	<b>Water Requirement</b>			<b>492</b>	5.	Wastewater Generation (@ 80% of water requirement)			394	6.	Treated Sewage (@ 98%)			386	7.	Flushing Water Requirement (@ 45 lpcd for residential population, @ 20 lpcd for floating population & @ 10 lpcd for visitors)			158+1.6+9.8 =169	8.	<b>Total Fresh Water Demand</b>			<b>492 – 169 = 323 KLD</b>	9.	<b>Green area water req. for 6423.129 sq.m.</b>					• Summer (@ 5.5 lt./m <sup>2</sup> /day)			35
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	<ul style="list-style-type: none"> <li>• Winter (@ 1.8 lt./m<sup>2</sup>/day)</li> </ul>	12														
	<ul style="list-style-type: none"> <li>• Monsoon (@ 0.5 lt./m<sup>2</sup>/day)</li> </ul>	3														
5.2	Source:	Borewells (2 Nos.)														
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) <i>Details thereof</i>	No, permission from Punjab Water Regulation and Development Authority (PWRDA) for extraction of groundwater is not required as water will be exclusively used for domestic & drinking purposes only.														
5.4	Total wastewater generation:	394 KLD														
5.5	Treatment methodology: <i>(STP capacity, technology &amp; components)</i>	Proposed STP of 500 KLD capacity based on MBBR Technology followed by UF.														
5.6	Treated wastewater for flushing purpose:	Total treated water for flushing = 169 KLD														
5.7	Treated wastewater for green area in summer, winter and rainy season:	Summer: 35 KLD Winter: 12 KLD Monsoon: 3 KLD														
5.8	Utilization/Disposal of excess treated wastewater.	Excess treated wastewater will be disposed off to MC sewer. Permission for connecting the sewer line of the project with the main sewer line of the MC, Zirakpur issued by EO, Zirakpur vide letter No. 796 dated 12.06.2023.														
5.9	Cumulative Details:															
	<table border="1"> <thead> <tr> <th>S.No</th> <th>Total water Requirement KLD</th> <th>Total wastewater generated KLD</th> <th>Treated wastewater KLD</th> <th>Flushing water requirement KLD</th> <th>Green area requirement KLD</th> <th>Into sewer KLD</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>492 KLD</td> <td>394 KLD</td> <td>386 KLD</td> <td>169 KLD</td> <td>Summer-35 KLD Winter-12 KLD Monsoon-3 KLD</td> <td>Summer-182 Winter-205 KLD Monsoon-214 KLD</td> </tr> </tbody> </table>	S.No	Total water Requirement KLD	Total wastewater generated KLD	Treated wastewater KLD	Flushing water requirement KLD	Green area requirement KLD	Into sewer KLD	1.	492 KLD	394 KLD	386 KLD	169 KLD	Summer-35 KLD Winter-12 KLD Monsoon-3 KLD	Summer-182 Winter-205 KLD Monsoon-214 KLD	
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1.	492 KLD	394 KLD	386 KLD	169 KLD	Summer-35 KLD Winter-12 KLD Monsoon-3 KLD	Summer-182 Winter-205 KLD Monsoon-214 KLD										
5.10	Rain water harvesting proposal:	06 Rain water recharging pits have been proposed for artificial rain water recharging within the project premises. Layout showing 06 rain water recharging pits is enclosed along with application.														
6	<b>Air</b>															

6.1	Details of Air Polluting machinery:	5 Nos. of DG sets of capacity – 3 Nos. of 750 kVA & 2 Nos. 500 kVA each.			
6.2	Measures to be adopted to contain particulate emission/Air Pollution	DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.			
7	<b>Waste Management</b>				
7.1	Total quantity of solid waste generation	Total solid waste generation = 1,615 kg/day			
7.2	Whether Solid Waste Management layout plan by earmarking the location as well as area designated for installation of Mechanical Composter and Material Recovery Facility submitted or not	Yes. Biodegradable waste will be converted into manure using 2 Composters (500 kg & 250 kg each). Non-biodegradable waste (recyclable waste) will be disposed off through authorized recycler vendor. STP sludge will be dried and used as manure for green area development within the project. Layout plan showing solid waste segregation area is attached along with application. NOC from MC, Zirakpur for solid waste disposal is attached along with application.			
7.3	Details of management of plastic waste generated from project	Plastic waste will be handled as per Plastic Waste Management Rules, 2016.			
7.4	Whether agreement executed with Municipal Council for lifting of plastic waste (Y/N)	Not yet.			
7.5	Details of management of Hazardous Waste.	Hazardous Waste in the form of used oil from DG sets will be generated which will be managed & disposed off to authorized vendor as per the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and its amendments.			
8	<b>Energy Saving &amp; EMP</b>				
8.1	Power Consumption:	Total Power load = 3,055 KW			
8.2	Energy saving measures:	Solar panels have been proposed on the roof top of the towers. The total area covered by solar panels will be 1,474 sq.m. which is @ 30% of roof top area which will generate 165.24 KW of power generation. Details of energy savings is attached along with the application.			
8.3	Details of activities under Environment Management Plan.				
	<b>Sr. No.</b>	<b>Title</b>	<b>Capital Cost (In Lakhs)</b>	<b>Recurring cost (In Lakhs/Annum)</b>	
				<b>Construction phase</b>	<b>Operation Phase</b>



1	Air & Noise Pollution Management (Acoustic enclosure for DG sets, tarpaulin sheets/ barricading, water sprinklers, Maintenance of machinery & PPE's, anti-smog guns, etc.)	20	5	4
2	Water Pollution Control (STP of 500 KLD capacity based on MBBR technology followed by UF)	50	4	10
3	Landscaping (planting & maintenance of 503 trees)	7	2	8
4	Solid Waste Management (2 Composters of 500 kg & 250 kg)	20	2	7
5	Rain water Harvesting (6 pits)	15	2	4
6	Energy Conservation (LED lights in common areas, solar panel, etc.)	70	1	5
7	Miscellaneous (Environment monitoring cost, Management of Environment Cell, etc.)	2	2	5
	<b>Total</b>	<b>184</b>	<b>18</b>	<b>43</b>

In addition, Rs. 80 Lakhs (i.e., 1% of total project cost) has been reserved for undertaking additional Environment activities. Details of the same are given below in Table 7:

**Table 7: Additional Environment Activities**

Sr. No.	Activities	Cost (In Lakhs)
1	Adoption of Govt. Primary School in Village Nabha Sahib, Block Banur, Distt. SAS Nagar. <ul style="list-style-type: none"> <li>To carry out repair/renovation work in the said school's premises.</li> <li>To plant trees, create and maintain park in school.</li> <li>To provide new furniture.</li> <li>To get school walls painted.</li> <li>To provide LED bulbs to school</li> <li>To install solar panels on the roof top of school.</li> <li>To conduct environmental awareness workshops.</li> <li>To provide rain water harvesting system.</li> </ul>	30
2.	Adoption of Village Nabha Sahib, Block Banur, Distt. SAS Nagar, Punjab for undertaking following activities: <ul style="list-style-type: none"> <li>To carry out repair/renovation work/re-carpeting of village roads.</li> </ul>	25 + 15 + 10 = 50

	<ul style="list-style-type: none"> <li>To plant trees, create and maintain parks and common landscape areas in the village.</li> <li>To install solar lights and street lights and poles along village roads and common areas in the village.</li> </ul>	
	<b>Total Amount to be spent under additional environment activities</b>	<b>Rs. 80 Lakhs</b>

The Committee, on perusal of letter No. 796 dated 12.06.2023 issued by E.O, Zirakpur regarding disposal of excess treated waste water to MC, Sewer, asked the project proponent to provide the alternative scheme for disposal of excess treated waste water till the time the project sewer is connected with MC, sewer.

In this regard, the Project Proponent submitted letter dated 28.08.2023 during the meeting and apprised the Committee that he shall carry out the construction of the project in phases. The project proponent proposed to construct Tower-2 to Tower-10 in first phase and Tower-1 & Tower-11 (EWS) in the second phase. He further submitted that he shall not carry out the construction of the second phase till the time the project sewer is connected with the MC, sewer, as the land reserved for these Towers along with other land are proposed to be developed under Karnal Technology for utilization of treated waste water. The population estimation and water demand has been revised accordingly with details as under:

### First Phase

#### **(A) Estimation of Population & Water Demand**

Sr. No.	Description	Population (No. of Persons)	Criteria for water demand	Water demand (KLD)	Flushing Water Criteria	Flushing Water Requirement
1	Residential Towers (Tower-2 to Tower-10) – 476 DUs @ 5 Persons/DU	2380	135 LPCD	321	45 LPCD	107
2	Staff	50	45 LPCD	2	20 LPCD	1
3	Shops	36	45 LPCD	2	20 LPCD	1
	<b>Total</b>	<b>2466</b>		<b>325</b>		<b>109</b>

#### **(B) Cumulative details:**

S.No.	Total water Requirement KLD	Total wastewater generated KLD	Treated wastewater KLD	Flushing water requirement KLD	Green area requirement KLD	Into sewer KLD

1.	325 KLD	260 KLD	255 KLD	109 KLD	Summer-35 KLD Winter-12 KLD Monsoon-3 KLD	Summer- 111 Winter- 134 KLD Monsoon- 143 KLD
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The Project Proponent proposed to develop the land area of 1.20 acres under Karnal Technology to utilize the excess treated wastewater till the time the project sewer is connected with MC, sewer as a stop gap arrangement. The Project Proponent submitted the layout plan by earmarking the area to be developed under Karnal Technology.

The Committee was satisfied with the revised proposal submitted by the Project Proponent and after detailed deliberations decided to award silver grading and forward the case to SEIAA with a recommendation to grant Environmental Clearance for establishment of Residential Group Housing Project namely "Pavitra Luxury Residencies" at Village – Nabha, Zirakpur, Distt. SAS Nagar, Punjab by M/s Pavitra Homes subject to the standard & specific conditions:

**Specific Condition:**

- (i) The Project Proponent shall not carry out the construction of the second phase i.e Tower-1 & Tower-11 (EWS) and shall maintain the area to be developed under Karnal Technology till the final outlet of the project carrying surplus treated wastewater is connected with the MC, sewer.

**I. Statutory compliances:**

- i) The project proponent shall obtain all necessary clearances/ permissions from all relevant agencies including the town planning authority before commencement of work. All the construction shall be done in accordance with the local building bye laws.
- ii) The approval of the Competent Authority shall be obtained for the structural safety of buildings due to earthquakes, adequacy of firefighting equipment, etc. as per the National Building Code including protection measures from lightning, etc.
- iii) The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes is involved in the project.
- iv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v) The project proponent shall obtain Consent to Establish / Operate under the provisions of the Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Punjab Pollution Control Board.

- vi) The project proponent shall obtain the necessary permission for the abstraction of groundwater/ surface water required for the project from the competent authority.
- vii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii) All other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire Department, and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix) The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x) The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi) The project site shall conform to the suitability as prescribed under the provisions laid down under the master plan of the respective city/ town. For that, the project proponent shall submit the NOC/ land use conformity certificate from Deptt. of Town and Country Planning or other concerned Authority under whose jurisdiction, the site falls.
- xii) Besides the above, the project proponent shall also comply with siting criteria/guidelines, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such types of projects.
- xiii) The project proponent shall construct the buildings as per the layout plan approved from the Competent Authority and in consonance of the project proposal for which this environment clearance is being granted.

## **II. Air quality monitoring and preservation**

- i) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii) A management plan shall be drawn up and implemented to contain the current exceedance in the ambient air quality at the site.
- iii) The project proponent shall install a system to undertake Ambient Air Quality monitoring for common /criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5) covering upwind and downwind directions during the construction period.
- iv) Diesel power generating sets proposed as a source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel would be the preferred option. The location of the DG sets may be decided in consultation with Punjab Pollution Control Board.

- v) Construction site shall be adequately barricaded before the construction begins. Dust, smoke and other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, and continuous dust/ wind-breaking walls all around the site (at least 3 m height or 1/3rd of the building height and maximum up to 10 m). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, 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 and demolition waste or any other construction material that causes dust shall be left uncovered.
- viii) No uncovered vehicles carrying construction material and waste shall be permitted.
- ix) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- x) Grinding and cutting of building material in open areas shall be prohibited. A wet jet shall be provided for grinding and stone cutting.
- xi) Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- xii) All construction and demolition debris shall be stored at the site within the earmarked area and roadside storage of construction material and waste shall be prohibited. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- xiii) The diesel generator sets to be used during the construction phase shall be low sulphur diesel type and shall conform to the norms and regulations prescribed under air and noise emission standards.
- xiv) The gaseous emissions from the DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xv) For indoor air quality, the ventilation provisions as per the National Building Code of India shall be complied with.
- xvi) Roads leading to or at the construction site must be paved and blacktopped (i.e., metallic roads should be built and used).
- xvii) Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.
- xviii) Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measures will be notified at the site

### III. Water quality monitoring and preservation

- i) The natural drainage system should be maintained for ensuring unrestricted flow of water.
- ii) No construction shall be allowed which obstructs the natural drainage through the site, in wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
- iii) Buildings shall be designed to follow the natural topography as far as possible. Minimum cutting and filling should be done.
- iv) The total freshwater use shall not exceed the proposed requirement as mentioned in the application proposal.
- v) 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.
- vi) During the construction phase, the project proponent shall ensure that the wastewater generated from the labour quarters/toilets shall be treated and disposed of in an environment-friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately designed septic tanks for the treatment of such wastewater and treated effluents shall be utilized for green area/plantation.
- vii) The project proponent shall ensure a safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided, if required.
- viii) The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA along with six-monthly monitoring reports.
- ix) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration, and the balance of water available. This should be specified separately for groundwater and surface water sources, ensuring that there is no impact on other users.
- x) 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.
- xi) Dual pipe plumbing shall be installed for supplying fresh water for drinking, cooking and bathing, etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, air conditioning etc.
- xii) Installation of R.O. plants in the project will be discouraged in order to reduce water wastage in form of RO reject. However, in case the requirement of installing RO plant is unavoidable,

the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component or in a common place in the project premises.

- xiii) The project proponent shall also adopt the new/innovative technologies like low water discharging taps (faucet with aerators) /urinals with electronic sensor system /waterless urinals/twin flush cisterns/ sensor-based alarm system for overhead water storage tanks and make them a part of the environmental management plans/building plans so as to reduce the water consumption/groundwater abstraction.
- xiv) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/other purposes etc. and will colour code the different pipelines carrying water/wastewater from different sources / treated wastewater as follows:

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

- xv) Water demand during construction should be reduced by the use of pre-mixed concrete, curing agents, and adopting other best practices.
- xvi) The CGWA provisions on rainwater harvesting should be followed. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of the plot area and a storage capacity of a minimum of one day of the total freshwater requirement shall be provided. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. The groundwater shall not be withdrawn without approval from the Competent Authority.
- xvii) All recharge should be limited to shallow aquifers.

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

#### **IV. Noise monitoring and prevention**

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



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

**V. Energy Conservation measures**

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

**VI. Waste Management**

- i) A certificate from the competent authority handling municipal solid waste, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from the project shall be obtained.
- ii) The Project Proponent shall install Mechanical Composter of adequate capacity to treat wet component of the Solid Waste.
- iii) Disposal of muck during the construction phase should not create any adverse effect on the neighbouring communities and should be safely disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of the competent authority.

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

## **VII. Green Cover**

- i) No naturally growing tree should be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department.
- ii) At least a single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. The project proponent shall ensure the planting of trees in the project area at the identified location, as the per proposal submitted, with plants of native species preferably having broad leaves. The size of the plant thus planted should not be less than 6 ft and each plant shall be protected with a fence and properly maintained. The project proponent shall make adequate provisions of funds to ensure maintenance of the plants for a further period of three years and thereafter, protected throughout the entire lifetime of the Project. The species with heavy foliage, broad leaves, and wide canopy cover are desirable. Water intensive and/or invasive species should not be

used for landscaping. The plantation should be undertaken as per SEIAA guidelines. The plantation to be carried out under Karnal Technology shall be in addition to the green area plantation of the project.

- iii) The Project Proponent shall develop a green belt with native tree species (having canopy type structure and especially trees, and not grass) before the completion of the project. The greenbelt shall inter alia cover the entire periphery of the unit provided that the number of trees to be planted should not be less than one tree per 80 sqm of the total land area. The canopy trees shall also be planted around the parking area to provide shade to the parked vehicles.
- iv) Where the trees need to be cut with prior permission from the concerned local Authority, a compensatory plantation in the ratio of 1: 10 (i.e. planting of 10 saplings of the same species for every tree that is cut) shall be done and the newly planted saplings will be maintained for at least 5 years. Green belt development shall be undertaken as per the details provided in the project document.
- v) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during the plantation of the proposed vegetation on site.
- vi) The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.
- vii) The green belt along the periphery of the plot shall achieve an attenuation factor conforming to the day and night noise standards prescribed for commercial land use.
- viii) The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report.

#### **VIII. Transport**

- i) A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
  - a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b) Traffic calming measures.
  - c) Proper design of entry and exit points.
  - d) Parking norms as per local regulations.
- ii) Vehicles hired for bringing construction material to the site should be in good condition and should have a valid pollution check certificate, conform to applicable air and noise emission standards, and should be operated only during non-peak hours.

- iii) A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 km radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on the cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies within this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
- iv) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.

#### **IX. Human health issues**

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

#### **X. Environment Management Plan**

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

- ii) A separate Environmental Cell both at the project and company headquarters level, with qualified personnel shall be set up under the control of senior Executive, who will report directly to the head of the organization.
- iii) An action plan for implementing following activities under EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority.

Sr. No.	Title	Capital Cost (In Lakhs)	Recurring cost (In Lakhs/Annum)	
			Construction phase	Operation Phase
1	Air & Noise Pollution Management (Acoustic enclosure for DG sets, tarpaulin sheets/ barricading, water sprinklers, Maintenance of machinery & PPE's, anti-smog guns, etc.)	20	5	4
2	Water Pollution Control (STP of 500 KLD capacity based on MBBR technology followed by UF)	50	4	10
3	Landscaping (planting & maintenance of 503 trees)	7	2	8
4	Solid Waste Management (2 Composters of 500 kg & 250 kg)	20	2	7
5	Rain water Harvesting (6 pits)	15	2	4
6	Energy Conservation (LED lights in common areas, solar panel, etc.)	70	1	5
7	Miscellaneous (Environment monitoring cost, Management of Environment Cell, etc.)	2	2	5
	<b>Total</b>	<b>184</b>	<b>18</b>	<b>43</b>

**Additional Environment activities.**

Sr. No.	Activities	Cost (In Lakhs)
1	Adoption of Govt. Primary School in Village Nabha Sahib, Block Banur, Distt. SAS Nagar. <ul style="list-style-type: none"> <li>To carry out repair/renovation work in the said school's premises.</li> <li>To plant trees, create and maintain park in school.</li> <li>To provide new furniture.</li> </ul>	30

	<ul style="list-style-type: none"> <li>• To get school walls painted.</li> <li>• To provide LED bulbs to school</li> <li>• To install solar panels on the roof top of school.</li> <li>• To conduct environmental awareness workshops.</li> <li>• To provide rain water harvesting system.</li> </ul>	
2.	<p>Adoption of Village Nabha Sahib, Block Banur, Distt. SAS Nagar, Punjab for undertaking following activities:</p> <ul style="list-style-type: none"> <li>• To carry out repair/renovation work/re-carpeting of village roads.</li> <li>• To plant trees, create and maintain parks and common landscape areas in the village.</li> <li>• To install solar lights and street lights and poles along village roads and common areas in the village.</li> </ul>	<p>25 + 15 + 10 = 50</p>
	<b>Total Amount to be spent under additional environment activities</b>	<b>Rs. 80 Lakhs</b>

#### **XI. Validity**

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

#### **XII. Miscellaneous**

- i) The project proponent shall obtain a completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab before allowing any occupancy.
- ii) The project proponent shall comply with the conditions of CLU, if obtained.
- iii) The project proponent shall prominently advertise in at least two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- iv) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn have to publicly display the same for 30 days from the date of receipt.
- v) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on a half-yearly basis.
- vi) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment,

Forest and Climate Change at the Environment Clearance portal and submit a copy of the same to SEIAA.

- vii) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put the same on the website of the company.
- viii) The project proponent shall inform the Regional Office as well as SEIAA Punjab, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during public hearing and also those made to SEIAA / SEAC during their presentation.
- xi) No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- xii) The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/ SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/ information/monitoring reports.
- xiii) This Environmental Clearance is granted subject to final outcome of pending related cases in the Hon'ble Supreme Court of India, Hon'ble High Courts, Hon'ble NGT and any other Court of Law as may be applicable to this project.

### **XIII. Additional Conditions**

- i) The approval is based on the conceptual plan/drawings submitted with the application. In case, there is variation in built-up area/green area/ any other details in the drawings approved by the competent authority, the Project Proponent shall obtain the revised Environmental Clearance.
- ii) The Project Proponent shall ensure that the natural drainage channels in the project site including streams, drains, choes, creeks, rivulets, etc. are not disturbed so that the natural flow of rainwater, etc is not impeded or disrupted in any manner.

- iii) Authorization from Punjab Pollution Control Board shall be obtained as applicable under the Bio-Medical Waste Management Rules 2016 as amended from time to time.
- iv) The solid waste other than Bio-Medical Waste & Hazardous Waste (dry as well as wet garbage) generated should be properly collected and segregated before disposal to Municipal Authorities in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2000. No municipal waste should be disposed off outside the premises in contravention of relevant rules and by-laws. Adequate measures should be taken to prevent any malodour in and around the Project premises.
- v) In the event that the project proponent decides to abandon/close the Project at any stage, he shall submit an application in the prescribed form along with requisite documents through Parivesh to SEIAA for surrendering the Environmental Clearance as per the procedure prescribed in OM dated 29.03.2022 issued by the MoEF&CC. The project proponent shall be accountable for adherence/compliance of the EC conditions till such time as the project is finally closed by SEIAA, based upon the certified closure report of Integrated Regional Offices (IROs) of MoEF&CC, Chandigarh/PPCB.
- vi) This Environmental Clearance is liable to be revoked without any further notice to the Project Proponent in case of failure to comply with condition (v) above.
- vii) 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.
- viii) The Project Proponent shall manage the solid waste generated from the project as per the sub-rule-7 of rule-4 of SWM Rules 2016.
- ix) The Ministry reserves the right to stipulate additional conditions if found necessary. The Promoter Company in a time bound manner shall implement these conditions.
- x) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.
- xi) Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



**Item No. 257.05: Application for Environmental Clearance for expansion of residential housing project namely “AGI Sky Villas” in the revenue estate of Village Dad, Pakhowal road, Tehsil Ludhiana West & District Ludhiana (Proposal No. SIA/PB/INFRA2/430419/2023).**

The Project Proponent was granted Environmental Clearance vide letter No. EC22B038PB135689 dated 13.07.2022 for establishment of a residential housing project namely “AGI Sky Villas” having built up area of 1,48,406 sqm in a total land area of 49800.2 sqm. The project was covered under category 8(a) of the schedule appended with the EIA Notification dated 14.09.2006. The said Environmental Clearance was granted for carryout the construction of 9 towers having 448 No. of flats.

The Project Proponent was granted Terms of Reference vide letter No. 59 dated 16.01.2023 for expansion of construction of a residential housing project namely “AGI Sky Villas” at revenue estate of Village Dad, Pakhowal road, Tehsil Ludhiana West & District Ludhiana.

The Project Proponent has applied for obtaining Environmental Clearance for expansion of residential housing project namely “AGI Sky Villas” at revenue estate of Village Dad, Pakhowal road, Tehsil Ludhiana West & District Ludhiana. The land area of the project is 49800.2 sqm having built up area increase from 1,48,406 sqm to 3,28,282.93 sqm. The project is now covered under category 8(b) of the schedule appended with the EIA Notification dated 14.09.2006.

The Project Proponent proposed to carryout expansion in vertical manner and addition of one new tower. After expansion, there will be 815 No. of flats in 10 towers.

The Project Proponent has submitted compliance of Terms of Reference and Certified compliance report issued by MoEF&CC vide dated 26.04.2023, PFR & other relevant documents through Parivesh Portal. He has also deposited Rs. 7195/- UTR No. PUNBH22364125451 dated 28.12.2022 and Rs. 37,775/- vide UTR No. PUNBH23006347377 dated 06.01.2023 and Rs. 1,34,907/- vide UTR No. PUNBH23139017589 dated 19.05.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

The latest construction status report furnished by Punjab Pollution Control Board vide letter No. 4773 dated 21.08.2023 is as under:

*“The proposed site of the subject cited project was visited by officer of the Board on 10.08.2023.*

*The point wise reply of the comments sought by SEIAA from this office relating to the proposal of the subject, is given under:*

<b>Sr. No.</b>	<b>Report of point sought by SEIAA</b>	<b>Remarks</b>
1.	Construction status of the proposal. Please send the clear-cut report as to whether construction for the project has	<ol style="list-style-type: none"> <li>1. The proposed site is located at village Daad.</li> <li>2. The project proponent has started construction activity related to project. During visit it was observed that the project proponent has constructed raft foundation of few blocks and was</li> </ol>

	<i>been started for the project except for securing the land.</i>	<i>undergoing construction of first and second floor of few blocks. During visit the project proponent has not carried out any construction of 10<sup>th</sup> tower.</i>
2.	<i>Status of physical structures within 500 m radius of the site including the status of industries, drain, river, eco-sensitive structure, if any.</i>	<p><i>The following units are located within 500 m radius of the unit:</i></p> <ol style="list-style-type: none"> <li><i>1. No rice shelter/ stone crusher/ hot mix plant/ cement grinding unit/ brick kiln exist within 500 m from the proposed site.</i></li> <li><i>2. There is no jaggery, exist within 100m of the site.</i></li> <li><i>3. There is no drain passing within or adjoining the site.</i></li> <li><i>4. There is no common bio-medical treatment facility within 500m.</i></li> <li><i>5. There is no eco-sensitive zone within 500m</i></li> <li><i>6. There is no MAH industry existing within 250m.</i></li> <li><i>7. There is no petroleum outlet exist adjoining the proposed site and boundary wall of the proposed site within 100m radius.</i></li> </ol>
3.	<i>Whether the site meets with the prescribed criteria for setting up of such projects.</i>	<i>The proposed site is complying with the sitting guidelines farmed by the Government of Punjab for such project.</i>

*The comparison (Land area, Build-up area, Waste Water generation and waste water discharge into sewer) of previous granted EC to the project proponent (3<sup>rd</sup> EC) with the current EC application is as under:-*

<b>Components</b>	<b>Environment Clearance</b>	
	<b>Previous EC Obtained</b>	<b>Proposal as per EC</b>
<i>Land Area</i>	<i>49800.2 sqm</i>	<i>49800.2 sqm</i>
<i>Build-up area</i>	<i>148406 sqm</i>	<i>328282.93 sqm</i>
<i>Total No of Flats</i>	<i>448</i>	<i>815</i>
<i>Waste Water Generation</i>	<i>178 KLD</i>	<i>460</i>
<i>STP Purposed</i>	<i>400 KLD</i>	<i>650</i>
<i>Waste Water Discharge into Sewer</i>	<i>125 KLD into sewer</i>	<i>265 KLD into sewer</i>

*It is estimated that the PP has given undertaking as under:1. That we will connect the sewer of our residential colony for discharge of its effluent of STP to the main sewer line of GLADA at Pakhowal*

Road at our own cost as per the condition of NOC issued by the GLADA, after obtaining the NOC from respective departments.2.That,all the dues have since been paid to GLADA in lump sum on account of EDC, which includes charges on account of sewerage connection to the project.3.That,in case, the permission for discharge of effluent into the sewer line of GLADA and/ or its disposal to the terminal is denied by the concerned authority/ respective department at any stage, we will obtain fresh "Consent to Establish" (NOC) from pollution angle along with concrete proof for alternate mode of disposal of treated effluent , like availability of adequate land for utilizing treated effluents for plantation or to adopt other environmentally sound effluent disposal arrangement."

**Deliberations during 257<sup>th</sup> meeting of SEAC held on 28.08.2023.**

The meeting was attended by the following:

- (i) Sh. BS Sandhva, Authorized signatory M/s AGI Sky Villas.
- (ii) Sh. Sital Singh, Environmental Consultant M/s CPTL.
- (iii) Dr. Rajnish Sharma, Environmental Consultant M/s CPTL.

The Committee allowed the Environmental Consultant to present the salient features of the application proposal. Thereafter, the Environmental Consultant presented the case as under:

Sr. No.	Description	Details			
1	Basic Details				
1.1	Name of Project & Project Proponent:	'AGI Sky Villas' by M/s AGI Infra Ltd. Sh. Balvinder Singh Sandha Chief Financial Officer			
1.2	Proposal:	Expansion			
1.3	Location of Industry:	Village- Dad, Pakhowal road, Tehsil & District- Ludhiana, Punjab			
1.4	Details of Land area & Built up area:	Details of Land area & Built up area:			
		<b>Description</b>	<b>As Per EC</b>	<b>Proposed</b>	<b>After Expansion</b>
		Land Area	49800.2 m <sup>2</sup>	Nil	49800.2 m <sup>2</sup>
		Builtup Area	1,48,406 m <sup>2</sup>	1,79,876.93 m <sup>2</sup>	3,28,282.93 m <sup>2</sup>
1.5	Category under EIA notification dated 14.09.2006	8(b)			
1.6	Cost of the project	<b>Details</b>	<b>As Per EC</b>	<b>Proposed</b>	<b>After Expansion</b>
		Cost	Rs. 197.5	Rs. 56.5	Rs. 254
1.7	Compliance of Public Hearing Proceedings	NA			
<b>2.</b>	<b>Site Suitability Characteristics</b>				

2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	Not submitted.			
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	A copy of the letter for permission for change of land use vide letter No.321 dated 16.03.2023 issued by GLADA for total land measuring of 12.306 acres for residential group housing submitted.			
<b>3</b>	<b>Forest, Wildlife and Green Area</b>				
3.1	Whether the industry required clearance under the provisions of Forest Conservation Act 1980 or not:	No, in this regard, the promoter company has submitted an undertaking in the prescribed proforma.			
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, in this regard, the promoter company has submitted an undertaking in the prescribed proforma.			
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No, in this regard, the promoter company has submitted an undertaking in the prescribed proforma.			
3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. (Specify the distance from the nearest Eco sensitive zone)	No, the project does not fall within any eco-sensitive zone.			
3.6	Green area requirement and proposed No. of trees:	<b>Details</b>	<b>As Per EC</b>	<b>Proposed</b>	<b>After Expansion</b>
			12526 m <sup>2</sup>	Nil	12526 m <sup>2</sup>
		No. of trees to be planted in $49800.2 \text{ m}^2 = 49800.2/80 = 623$ plants			
4.	<b>Proposal &amp; Configuration</b>				

Area Statement					
<b>S. No.</b>	<b>DESCRIPTION</b>	<b>As Per EC</b>	<b>Proposed</b>	<b>After Expansion</b>	
1.	Land area, net (m <sup>2</sup> )	49800.2 m <sup>2</sup>	Nil	49800.2 m <sup>2</sup>	
2.	Total built-up area (m <sup>2</sup> )	1,48,406 m <sup>2</sup>	1,79,876.93 m <sup>2</sup>	3,28,282.93 m <sup>2</sup>	
3.	No. of flats	448	367	815 (5BHK flats- 61 and 4 BHK-754).	
Tower wise bifurcation of 815 No. of flats as per approved layout plan.					
<b>Details of Dwelling Units :-</b>					
1)	Tower-A	5 BHK+Pent House	61 D.U		
2)	Tower – B&D	4BHK+Pent House	208 D.U		
3)	Tower-C	4 BHK+Pent House	104 D.U		
4)	Tower- E,F,H,I,J	4BHK, 5BHK+Pent House	390 D.U		
5)	Tower-G	4BHK+Pent House	52 D.U		
<b>Total D.U</b>			<b>815 D.U</b>		
The above said details are as per approved plan.					
4	<b>Population</b>				
4.2	Population details	<b>Details</b>	<b>As Per EC</b>	<b>Proposed</b>	<b>After Expansion</b>
		<b>Population</b>	<b>3190</b>	<b>1,435</b>	<b>4625</b>
Population of flats along with School & Maintenance has been considered.					
5	<b>Water</b>				
5.1	Total water requirement:				
	<b>Sr. No.</b>	<b>Season</b>	<b>Flushing(KLD)</b>	<b>Green Area (KLD)</b>	<b>Into Sewer (KLD)</b>
<b>As per previous EC</b>					
	1.	Summer	47	69	62
	2.	Winter	47	23	108
	3.	Rainy	47	6	125
<b>As per Proposal</b>					
	1.	Summer	189	69	202
	2.	Winter	189	23	248
	3.	Rainy	189	6	265
5.2	Source:	Ground Water			
5.3	Whether Permission obtained for abstraction/supply	Application has been filed to PWRDA for obtaining permission for the abstraction of groundwater for project. Complete set of application filed to PWRDA along with acknowledgment submitted.			

	of the fresh water from the Competent Authority (Y/N) Details thereof				
5.4.1	Total wastewater generation:	<b>Details</b>	<b>As Per EC</b>	<b>Proposed</b>	<b>After Expansion</b>
		Wastewater generation	<b>178</b>	<b>282</b>	<b>460</b>
5.4.2	Treatment methodology for domestic wastewater: (STP capacity, technology & components)	460 KLD of waste water from the project will be taken to S.T.P. of 650 KLD through underground delivery system and treated to tertiary level			
5.5	Total water requirement	<b>Details</b>	<b>As Per EC</b>	<b>Proposed</b>	<b>After Expansion</b>
		<b>Total water</b>	<b>223</b>	<b>352</b>	<b>575</b>
5.5.1	Treatment methodology for industrial wastewater: (ETP capacity, technology & components)	460 KLD of waste water from the project will be taken to S.T.P. of 650 KLD through underground delivery system and treated to tertiary level			
5.8	Rain water harvesting proposal:	Rain water harvesting system have been proposed for artificial rain water recharge within the project premises.			
<b>6</b>	<b>Air</b>				
6.1	Details of Air Polluting Machinery and APCDs installed are as under:	NA			
<b>7</b>	<b>Waste Management</b>				
7.1	Total quantity of solid waste generation	<b>Details</b>	<b>As per EC</b>	<b>Proposed</b>	<b>After Expansion</b>
		<b>Solid Waste</b>	<b>1151 kg/day</b>	<b>766 kg/day</b>	<b>1917 kg/day</b>
		Solid waste to the tune of about 1917 Kg / day will be generated from the project after its full occupancy, which will be segregated into bio-degradable and non-biodegradable component of the solid waste by the respective household by providing Colored bins as per the SWM Rule, 2016.			
7.2	Details of management and disposal of solid waste (Mechanical Composter/Compost pits)	The bio-degradable component of the solid would be treated by providing an on-site composting facility. The non-biodegradable would be sent to the Material Recovery Facility of MC, Ludhiana.			
<b>8</b>	<b>Energy Saving &amp; EMP</b>				

8.1	Power Consumption:	<b>Details</b>	As per EC	Proposed	After Expansion																																													
		<b>Power (KW)</b>	<b>2239</b>	<b>2100</b>	<b>4339</b>																																													
Total power demand for the proposed project will be 4339 KW which will be provided by Punjab State Power Corporation Limited (PSPCL).																																																		
8.2	Energy saving measures:	<ul style="list-style-type: none"> <li>• Saving on light point by using 30W LED instead of 40 W tubes @ 25% = 175 KW</li> <li>• By using solar energy for outer Lighting= 75 KW</li> <li>• Solar Panel for power generation (roof top 500 KW) = 500 KW</li> </ul> <p>Total = 750 KW</p>																																																
8.3	<p>Details of activities under Environment Management Plan.</p> <p><b>Constructional Phase-</b></p> <table border="1"> <thead> <tr> <th>SR. NO.</th> <th>PARTICULARS</th> <th>APPROX. CAPITAL COST (Rs LAC)</th> <th>APPROX. RECURRING COST (Rs LAC)</th> <th>ITEMS COVERED</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Medical Cum First Aid</td> <td>2.5</td> <td>1.0</td> <td>First aid medical facility with first aid kit</td> </tr> <tr> <td>2.</td> <td>Toilets for workers</td> <td>2.0</td> <td>0.5</td> <td>Toilets with septic tank</td> </tr> <tr> <td>3.</td> <td>Wind breaking curtains</td> <td>5.0</td> <td>0.5</td> <td>Wind breaking walls at vulnerable areas</td> </tr> <tr> <td>4.</td> <td>Sprinklers for suppression of dust</td> <td>3.0</td> <td>1.0</td> <td>Sprinklers, Pipeline</td> </tr> <tr> <td>5.</td> <td>Sewage Treatment Plant</td> <td>110.0</td> <td>---</td> <td>Construction of STP</td> </tr> <tr> <td>6.</td> <td>Solid waste Management</td> <td>20.0</td> <td>--</td> <td>Making arrangement for solid waste segregation &amp; disposal</td> </tr> <tr> <td>7.</td> <td>Green belt development</td> <td>7.0</td> <td>--</td> <td>Land scaping &amp; tree plantation</td> </tr> <tr> <td>8.</td> <td>Rain water harvesting</td> <td>20.0</td> <td>--</td> <td>Construction rain water</td> </tr> </tbody> </table>					SR. NO.	PARTICULARS	APPROX. CAPITAL COST (Rs LAC)	APPROX. RECURRING COST (Rs LAC)	ITEMS COVERED	1.	Medical Cum First Aid	2.5	1.0	First aid medical facility with first aid kit	2.	Toilets for workers	2.0	0.5	Toilets with septic tank	3.	Wind breaking curtains	5.0	0.5	Wind breaking walls at vulnerable areas	4.	Sprinklers for suppression of dust	3.0	1.0	Sprinklers, Pipeline	5.	Sewage Treatment Plant	110.0	---	Construction of STP	6.	Solid waste Management	20.0	--	Making arrangement for solid waste segregation & disposal	7.	Green belt development	7.0	--	Land scaping & tree plantation	8.	Rain water harvesting	20.0	--	Construction rain water
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				harvesting well & channel
<b>TOTAL COST</b>		<b>Rs 169.5</b>	<b>Rs 3.0</b>	
<b>OPERATION PHASE:</b>				
<b>SR. NO.</b>	<b>PARTICULARS</b>	<b>RECURRING COST (Rs. LAC)</b>	<b>ITEMS COVERED</b>	
1.	Sewage Treatment Plant	10.0	Operation & maintenance of sewage treatment plant including salary of operators	
2.	Solid Waste segregation & disposal	8.0	Colored Bins at appropriate Locations	
3.	Green Belt including Lawns coverage	7.0	Development of green belt, watering & manuring	
4	RWH	5.0	Cleaning of channels & harvesting pits	
<b>TOTAL</b>		<b>Rs. 30.0</b>		

During meeting, the Committee perused the Certified Compliance report submitted by the Regional Office of MoEF&CC and observed that the said office vide letter dated 26.04.2023 addressed to Member Secretary, SEIAA raised certain observations related to the project and asked to take appropriate action. In this regard, the Committee asked the Project Proponent to submit the compliance of the observations raised by the MoEF&CC. The Project Proponent submitted the point wise compliance of the said observations as under:

<b>Sr. No.</b>	<b>Observations</b>	<b>Action Taken/Reply</b>
1.	PP has not submitted a valid copy of CTE	Consent to establish issued vide letter No. PBIP/1/576139/2023 dated 07.06.2023 for group housing project namely "AGI Sky Villas" submitted.
2.	PP has not submitted the approval of the Competent Authority for the	Regarding the safety of structure, a copy of the structural safety certificate given by LIVEHOOAH



	structural safety of the whole structure.	technology (P) limited Gurugram Haryana is submitted.
3.	PP has not submitted installed a system to carryout ambient air quality monitoring yet.	The Project Proponent placed the order for installation to ambient air quality monitoring system & will install within month. The Project Proponent also made an agreement with NABL approved laboratory for monitoring of ambient air quality of the site monthly bases.
4.	PP has not uploaded a copy of EC conditions, including the results of monitoring data on the PP's website.	Copy of EC with conditions including the results of monitoring data has been uploaded on the website on the below mentioned link. <a href="https://www.agiinfra.com/agi-sky-garden/">https://www.agiinfra.com/agi-sky-garden/</a>

The Committee was satisfied with the presentation and subsequent reply given by the Project Proponent and after detailed deliberations, the Committee decided to award '**Silver Grading**' to the project proposal and decided to forward the application of the project proponent to SEIAA with the recommendation to grant Environmental Clearance for expansion of residential housing project namely "AGI Sky Villas" in the revenue estate of Village Dad, Pakhowal road, Tehsil Ludhiana West & District Ludhiana, subject to the following standard conditions:

**I. Statutory compliances:**

- i) The project proponent shall obtain all necessary clearances/ permissions from all relevant agencies including the town planning authority before commencement of work. All the construction shall be done in accordance with the local building bye laws.
- ii) The approval of the Competent Authority shall be obtained for the structural safety of buildings due to earthquakes, adequacy of firefighting equipment, etc. as per the National Building Code including protection measures from lightning, etc.
- iii) The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes is involved in the project.
- iv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v) The project proponent shall obtain Consent to Establish / Operate under the provisions of the Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Punjab Pollution Control Board.
- vi) The project proponent shall obtain the necessary permission for the abstraction of groundwater/ surface water required for the project from the competent authority.
- vii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.

- viii) All other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire Department, and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix) The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x) The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi) The project site shall conform to the suitability as prescribed under the provisions laid down under the master plan of the respective city/ town. For that, the project proponent shall submit the NOC/ land use conformity certificate from Deptt. of Town and Country Planning or other concerned Authority under whose jurisdiction, the site falls.
- xii) Besides the above, the project proponent shall also comply with siting criteria/guidelines, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such types of projects.
- xiii) The project proponent shall construct the buildings as per the layout plan approved from the Competent Authority and in consonance of the project proposal for which this environment clearance is being granted.

## **II. Air quality monitoring and preservation**

- i) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii) A management plan shall be drawn up and implemented to contain the current exceedance in the ambient air quality at the site.
- iii) The project proponent shall install a system to undertake Ambient Air Quality monitoring for common /criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5) covering upwind and downwind directions during the construction period.
- iv) Diesel power generating sets proposed as a source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel would be the preferred option. The location of the DG sets may be decided in consultation with Punjab Pollution Control Board.
- v) Construction site shall be adequately barricaded before the construction begins. Dust, smoke and other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, and continuous dust/ wind-breaking walls all around the site (at least 3 m height or 1/3rd of the building height and maximum up to 10 m). Plastic/tarpaulin sheet covers shall be provided

for vehicles bringing in sand, cement, 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 and demolition waste or any other construction material that causes dust shall be left uncovered.
- viii) No uncovered vehicles carrying construction material and waste shall be permitted.
- ix) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- x) Grinding and cutting of building material in open areas shall be prohibited. A wet jet shall be provided for grinding and stone cutting.
- xi) Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- xii) All construction and demolition debris shall be stored at the site within the earmarked area and roadside storage of construction material and waste shall be prohibited. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- xiii) The diesel generator sets to be used during the construction phase shall be low sulphur diesel type and shall conform to the norms and regulations prescribed under air and noise emission standards.
- xiv) The gaseous emissions from the DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xv) For indoor air quality, the ventilation provisions as per the National Building Code of India shall be complied with.
- xvi) Roads leading to or at the construction site must be paved and blacktopped (i.e., metallic roads should be built and used).
- xvii) Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.
- xviii) Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measures will be notified at the site

### **III. Water quality monitoring and preservation**

- i) The natural drainage system should be maintained for ensuring unrestricted flow of water.
- ii) No construction shall be allowed which obstructs the natural drainage through the site, in wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban

drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.

- iii) Buildings shall be designed to follow the natural topography as far as possible. Minimum cutting and filling should be done.
- iv) The total freshwater use shall not exceed the proposed requirement as mentioned in the application proposal.
- v) 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.
- vi) During the construction phase, the project proponent shall ensure that the wastewater generated from the labour quarters/toilets shall be treated and disposed of in an environment-friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately designed septic tanks for the treatment of such wastewater and treated effluents shall be utilized for green area/plantation.
- vii) The project proponent shall ensure a safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided, if required.
- viii) The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA along with six-monthly monitoring reports.
- ix) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration, and the balance of water available. This should be specified separately for groundwater and surface water sources, ensuring that there is no impact on other users.
- x) 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.
- xi) Dual pipe plumbing shall be installed for supplying fresh water for drinking, cooking and bathing, etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, air conditioning etc.
- xii) Installation of R.O. plants in the project will be discouraged in order to reduce water wastage in form of RO reject. However, in case the requirement of installing RO plant is unavoidable, the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component or in a common place in the project premises.
- xiii) The project proponent shall also adopt the new/innovative technologies like low water discharging taps (faucet with aerators) /urinals with electronic sensor system /waterless

urinals/twin flush cisterns/ sensor-based alarm system for overhead water storage tanks and make them a part of the environmental management plans/building plans so as to reduce the water consumption/groundwater abstraction.

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

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

- xv) Water demand during construction should be reduced by the use of pre-mixed concrete, curing agents, and adopting other best practices.
- xvi) The CGWA provisions on rainwater harvesting should be followed. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of the plot area and a storage capacity of a minimum of one day of the total freshwater requirement shall be provided. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. The groundwater shall not be withdrawn without approval from the Competent Authority.
- xvii) All recharge should be limited to shallow aquifers.
- xviii) No groundwater shall be used during the construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and should be available at the site.
- xix) Any groundwater dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any groundwater abstraction or dewatering.

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

#### **IV. Noise monitoring and prevention**

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

#### **V. Energy Conservation measures**

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

## **VI. Waste Management**

- i) A certificate from the competent authority handling municipal solid waste, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from the project shall be obtained.
- ii) The Project Proponent shall install Mechanical Composter of adequate capacity to treat wet component of the Solid Waste.
- iii) Disposal of muck during the construction phase should not create any adverse effect on the neighbouring communities and should be safely disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of the competent authority.
- iv) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating the segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- v) Organic waste compost/ Vermiculture pit/ Organic Waste Converter/Mechanical Composter within the premises must be installed for treatment and disposal of the solid waste.

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

## **VII. Green Cover**

- i) No naturally growing tree should be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department.
- ii) At least a single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. The project proponent shall ensure the planting of trees in the project area at the identified location, as the per proposal submitted, with plants of native species preferably having broad leaves. The size of the plant thus planted should not be less than 6 ft and each plant shall be protected with a fence and properly maintained. The project proponent shall make adequate provisions of funds to ensure maintenance of the plants for a further period of three years and thereafter, protected throughout the entire lifetime of the Project. The species with heavy foliage, broad leaves, and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. The plantation should be undertaken as per SEIAA guidelines. The plantation to be carried out under Karnal Technology shall be in addition to the green area plantation of the project.
- iii) The Project Proponent shall develop a green belt with native tree species (having canopy type structure and especially trees, and not grass) before the completion of the project. The greenbelt shall inter alia cover the entire periphery of the unit provided that the number of



trees to be planted should not be less than one tree per 80 sqm of the total land area. The canopy trees shall also be planted around the parking area to provide shade to the parked vehicles.

- iv) Where the trees need to be cut with prior permission from the concerned local Authority, a compensatory plantation in the ratio of 1: 10 (i.e. planting of 10 saplings of the same species for every tree that is cut) shall be done and the newly planted saplings will be maintained for at least 5 years. Green belt development shall be undertaken as per the details provided in the project document.
- v) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during the plantation of the proposed vegetation on site.
- vi) The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.
- vii) The green belt along the periphery of the plot shall achieve an attenuation factor conforming to the day and night noise standards prescribed for commercial land use.
- viii) The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report.

#### **VIII. Transport**

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

P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

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

#### **IX. Human health issues**

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

#### **X. Environment Management Plan**

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

**Constructional Phase-**

SR. NO.	PARTICULARS	APPROX. CAPITAL COST (Rs LAC)	APPROX. RECURRING COST (Rs LAC)	ITEMS COVERED
1.	Medical Cum First Aid	2.5	1.0	First aid medical facility with first aid kit
2.	Toilets for workers	2.0	0.5	Toilets with septic tank
3.	Wind breaking curtains	5.0	0.5	Wind breaking walls at vulnerable areas
4.	Sprinklers for suppression of dust	3.0	1.0	Sprinklers, Pipeline
5.	Sewage Treatment Plant	110.0	---	Construction of STP
6.	Solid waste Management	20.0	--	Making arrangement for solid waste segregation & disposal
7.	Green belt development	7.0	--	Land scaping & tree plantation
8.	Rain water harvesting	20.0	--	Construction rain water harvesting well & channel
<b>TOTAL COST</b>		<b>Rs 169.5</b>	<b>Rs 3.0</b>	

**OPERATION PHASE:**

SR. NO.	PARTICULARS	RECURRING COST (Rs. LAC)	ITEMS COVERED
1.	Sewage Treatment Plant	10.0	Operation & maintenance of sewage treatment plant including salary of operators

2.	Solid Waste segregation & disposal	8.0	Colored Bins at appropriate Locations
3.	Green Belt including Lawns coverage	7.0	Development of green belt, watering & manuring
4	RWH	5.0	Cleaning of channels & harvesting pits
<b>TOTAL</b>		<b>Rs. 30.0</b>	

#### **XI. Validity**

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

#### **XII. Miscellaneous**

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

Environment (Protection) Rules, 1986, as amended subsequently and put the same on the website of the company.

- viii) The project proponent shall inform the Regional Office as well as SEIAA Punjab, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during public hearing and also those made to SEIAA / SEAC during their presentation.
- xi) No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- xii) The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/ information/monitoring reports.
- xiii) This Environmental Clearance is granted subject to final outcome of pending related cases in the Hon'ble Supreme Court of India, Hon'ble High Courts, Hon'ble NGT and any other Court of Law as may be applicable to this project.

### **XIII. Additional Conditions**

- i) The approval is based on the conceptual plan/drawings submitted with the application. In case, there is variation in built-up area/green area/ any other details in the drawings approved by the competent authority, the Project Proponent shall obtain the revised Environmental Clearance.
- ii) The Project Proponent shall ensure that the natural drainage channels in the project site including streams, drains, choes, creeks, rivulets, etc. are not disturbed so that the natural flow of rainwater, etc is not impeded or disrupted in any manner.
- iii) Authorization from Punjab Pollution Control Board shall be obtained as applicable under the Bio-Medical Waste Management Rules 2016 as amended from time to time.
- iv) The solid waste other than Bio-Medical Waste & Hazardous Waste (dry as well as wet garbage) generated should be properly collected and segregated before disposal to Municipal Authorities in accordance with the Municipal Solid Waste (Management &

Handling) Rules, 2000. No municipal waste should be disposed off outside the premises in contravention of relevant rules and by-laws. Adequate measures should be taken to prevent any malodour in and around the Project premises.

- v) In the event that the project proponent decides to abandon/close the Project at any stage, he shall submit an application in the prescribed form along with requisite documents through Parivesh to SEIAA for surrendering the Environmental Clearance as per the procedure prescribed in OM dated 29.03.2022 issued by the MoEF&CC. The project proponent shall be accountable for adherence/compliance of the EC conditions till such time as the project is finally closed by SEIAA, based upon the certified closure report of Integrated Regional Offices (IROs) of MoEF&CC, Chandigarh/PPCB.
- vi) This Environmental Clearance is liable to be revoked without any further notice to the Project Proponent in case of failure to comply with condition (v) above.
- vii) 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.
- viii) The Project Proponent shall manage the solid waste generated from the project as per the sub-rule-7 of rule-4 of SWM Rules 2016.
- ix) The Ministry reserves the right to stipulate additional conditions if found necessary. The Promoter Company in a time bound manner shall implement these conditions.
- x) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.
- xi) Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**Item No. 257.06: Application for amendment in Terms of Reference (TOR) of existing Steel manufacturing unit namely “M/s Lord Mahaveer Industries Pvt. Ltd.” located at GT Road (Sirhind Side), Near Gian TMT Mills, Mandi Gobindgarh, Distt. Fatehgarh Sahib, Punjab. (SIA/PB/IND/302870/2023).**

The industry was granted consent to operate under the provisions of the Water Act 1974 and Air Act 1981 for the manufacturing of steel ingots/billets/MS flats bars @ 84 MTD, which are valid up to 30.09.2023.

The industry was granted Terms of Reference vide Letter no. SEIAA/MS/2022/5132 dated 02.03.2022 for installation of one Induction Furnace of capacity 10 TPH after replacing existing Induction Furnace of capacity 7 TPH.

The industry has applied for amendment in Terms of Reference for change of planning to install Induction Furnace of capacity 20 TPH instead of 10 TPH Induction furnace. The industry has submitted Form-I & Pre-Feasibility Report and other relevant documents through Parivesh Portal. The total cost of the project is Rs. 19.372 Crores. The industry had deposited Rs. 48,430/- (@ 25% of applicable fees) vide NEFT No. CBINH22019174610 dated 19.01.2022. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

**Deliberations during 257<sup>th</sup> meeting of SEAC held on 28.08.2023.**

The meeting was attended by the following:

- (i) Mr. Balram Gupta, Director M/s Lord Mahaveer Industries Pvt Ltd.
- (ii) Dr. Sandeep Garg, EC-Coordinator M/s Eco Paryavaran Laboratory Pvt Ltd.

The Committee was satisfied with the presentation given by the Project Proponent and after detailed deliberations, SEAC decided to forward the application proposal to SEIAA with recommendation to grant proposed amendment in Terms of Reference.

**Item No. 257.07: Application for amendment in Environmental clearance under EIA notification dated 14.09.2006 for the expansion of group housing project namely "Sushma Crescent" in the revenue estate of Zirakpur, Tehsil Derabassi, Distt. Mohali by M/s Sushma Buildtech Ltd (Proposal No. SIA/PB/MIS/300744/2023).**

The Project Proponent was granted Environmental Clearance vide letter No. SEIAA/2446 dated 25.05.2016 for the expansion of group housing project namely "Sushma Crescent" in the revenue estate of Zirakpur, Tehsil Derabassi, Distt. Mohali by M/s Sushma Buildtech Ltd. (Proposal no. SIA/PB/NCP/32360/2015). The total land area of the project is 10.309 acres and built up area of 97,966 sqm.

The Project Proponent has applied for amendment in Environmental Clearance under EIA notification dated 14.09.2006 namely "Sushma Crescent" in the revenue estate of Zirakpur, Tehsil Derabassi, Distt. Mohali. The total land area of the project is 10.309 acres having increase in the built-up area from 97,966 sqm to 99899 sqm. The project is covered under category 8(a) of the schedule appended with the EIA Notification dated 14.09.2006.

The Project Proponent has submitted Form-4, Covering letter, conceptual plan & six-monthly through Parivesh Portal. He has also deposited Rs. 3905/- vide UTR No. IMPS/P2A/320716213827 dated 26.07.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

**Deliberations during 257<sup>th</sup> meeting of SEAC held on 28.08.2023.**

The meeting was attended by the following:

- (i) Mr. Akashdeep Sethi, Authorized signatory M/s Sushma Buildtech Ltd.
- (ii) Mr. Deepak Gupta, Environmental Advisor.
- (iii) Dr. Rajnish Sharma, Environmental Consultant M/s CPTL.

The Committee allowed the Environmental Consultant to present the salient features of the amendment proposal. Thereafter, the Environmental Consultant presented the case as under:

Sr. No.	Description	As per previous EC	As per amendment proposal
1.	Built up area	97966 sqm	99899 sqm
2.	Flats	765	764
3.	Shops	Not mentioned in EC	6 No.
4.	Fresh water required	631 KLD	344 KLD
5.	Domestic water required	765 KLD	516 KLD
6.	Wastewater generation	612 KLD	413 KLD
6.	Green area (Rainy season)	Nil	3 KLD



6.	Flushing water required	134 KLD	172 KLD
7.	Discharge in to sewer	478 KLD	238 KLD
8.	MSW	1533 Kg/day	1531 Kg/day

The Committee asked the Project Proponent to explain the increase in built-up area of the project despite decrease in the No of flats. In this regard, the Project Proponent apprised the Committee that the size of the flats has been increased which leads to overall increase in the built-up area.

The Project Proponent further apprised the Committee that the water demand was considered @200 lpcd for estimating the total water requirement of the project as per the earlier granted Environmental Clearance has been revised @135 lpcd. As per earlier EC, the total water requirement comes out to be 765 KLD (765 flats x 5 person/flat x 200 lpcd) which has been revised to 516 KLD (764 Flats x 5 person/flat x 135 lpcd). The wastewater generation, treated wastewater utilization for green area and excess treated wastewater discharged into sewer have also been revised accordingly. The Committee noted the same and was satisfied with the clarification given by the Project Proponent.

After detailed deliberations, SEAC decided to forward the case to SEIAA with recommendation to grant to proposed amendment in Environmental Clearance.

**Item No. 257.08: Application for amendment in Environmental Clearance under EIA Notification dated 14.09.2006 for manufacturing of steel unit located at Village Khumna, Amloh Road, Mandi Gobindgarh, District Fatehgarh Sahib by M/s Har Har Mahadev Concast, (Proposal No. SIA/PB/IND/303059/2023).**

The industry is an existing unit and was granted Consent to Operate under the provisions of Water Act, 1974 & Air Act, 1981, which was valid up to 19.01.2023.

The industry was granted Environment Clearance, MoEF&CC vide letter No. J-11011/194/2011-IA-II(I) dated 26.09.2012 for carrying out expansion of Induction furnace (54 TPD to 294 TPD) and rolling mill (100 TPD to 200 TPD) to manufacture 294 MTD of MS Ingots/billets/castings and 200 MTD of rolled products at Village Khumna, Amloh Road, District Fatehgarh Sahib in the name of M/s Neelkanth Concast Steel Pvt Ltd. The industry has proposed to install induction furnace of capacity 20 TPH in addition to the existing induction furnace of capacity 4.5 TPH.

Further, the industry was granted transfer of Environmental Clearance under EIA Notification dated 14.09.2006 vide SEIAA letter No. SEIAA/2018/1445 dated 03.12.2018 in the name of M/s Har Har Mahadev Concast subject to the same conditions as mentioned in the earlier Environmental Clearance granted to it.

As per the application proposal for amendment, the industry has already upgraded the induction furnace capacity of 4.5 TPH to 6 TPH and installed induction furnace of capacity 10 TPH instead of 20 TPH. Further, the industry has proposed to upgrade the existing 6TPH Induction Furnace to 10TPH.

The industry is covered under category 3(a) of the schedule appended with the EIA Notification dated 14.09.2006. The industry has submitted Form-4, PFR and other relevant documents through Parivesh Portal. The total cost of the project is Rs. 15 Crore. In this regard, the industry has also deposited Rs. 1,50,000/- vide UTR no.- N177232517734575 dated 26.06.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

The industry was granted Environmental Clearance by MoEF&CC subject to the specific conditions. As per the specific condition at (i), the industry shall install bag filter etc to control the particulate emissions below 50 mg/Nm<sup>3</sup>. The industry has mentioned in the proposal that the said standard is not application to the said unit due to the following reasons:-

1. The MOEF&CC, New Delhi vide notification no. GSR 742(E) dated 30.08.1990 has laid down emission standards of 150mg/Nm<sup>3</sup> for Induction Furnaces in respect of Particulate Matter.
2. Mandi Gobindgarh city (within MC limits) has been declared as non-attainment city by the CPCB and in the action plan for control of air pollution within the MC limits of Mandi Gobindgarh, an action plan has been prepared wherein it has been mentioned to achieve emission standards of 150mg/Nm<sup>3</sup> in respect of Particulate matter.
3. The unit is located at a distance of 3.4km from MC limits of Mandi Gobindgarh.

Therefore, the emission standards to be achieved in respect of PM for our unit should be 150mg/Nm<sup>3</sup> instead of 50mg/Nm<sup>3</sup>.

**Deliberations during 257<sup>th</sup> meeting of SEAC held on 28.08.2023.**

The meeting was attended by the following:

- (i) Sh. Sukhwinder Singh, Manager M/s Har Har Mahadev Concast.
- (ii) Dr. Rajnish Sharma, Environmental Consultant M/s CPTL.

The Committee was satisfied with the presentation and subsequent reply given by the Project Proponent and after detailed deliberations, SEAC decided to forward the application proposal to SEIAA with recommendation to grant proposed amendment in Environment Clearance.

**Item No. 257.09: Application for Environmental Clearance for carrying out mining of minor minerals (sand) at Village Mehlanwali, Tehsil & District Hoshiarpur by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Hoshiarpur Division. (Proposal No.SIA/PB/MIN/423947/2023).**

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Hoshiarpur Division has applied for obtaining Environmental Clearance under category B2 and 1(a) of the Schedule appended with the EIA notification dated 14.09.2006 for carrying out mining of minor minerals (sand) at the mining site of Village Mehlanwali, Tehsil & District Hoshiarpur. The proposed site falls under River Bed mining site.

The Department has deposited requisite fee of Rs. 5000/-vide reference no. N088232390730705 dated 29.03.2023 for obtaining Environmental Clearance for carrying out mining in the above mining site. The adequacy & deposition of the requisite fee by the applicant has been checked & verified by the supporting staff of SEIAA. The Mining Plan was approved by Assistant Geologist, Punjab vide Letter No. Glg/Pb/M.P/Mahlanwali/907 dated 22.03.2023 for the permissible limit of extraction as per the said plan is 6819 TPA.

**Deliberations during 248<sup>th</sup> meeting of SEAC held on 27.05.2023.**

The meeting was attended by the following:

- (iii) Mr. Arshad Shaik, Senior Executive Technical M/s Right Source Industrial Solutions Pvt Ltd (Through VC).
- (iv) Mr. Paras Mahajan, Asst. Geologist.
- (v) Mr. Sandeep Kumar, SDO, Hoshiarpur

The Committee allowed the Environmental Consultant to present the salient features of the application proposal. Thereafter, the Environmental Consultant presented the case as under:

i)	Name of Applicant & Correspondence address:  Mobile No: EmailID:	Sartaj Singh Randhawa, Executive Engineer-Hoshiarpur Drainage –cum-Mining & Geology Division, Hoshiarpur, WRD Punjab 9417900074 sartaj.randhawa074@punjab.gov.in
ii)	Name of Environmental Consultant Mobile No. Email ID	Right Source Industrial Solutions Pvt. Ltd 8977495343 eiaemp@rightsource.co.in
iii)	Online Proposal No.	SIA/PB/MIN/423947/2023
iv)	Project Name & Location	Mehlanwali Sand Mining Project

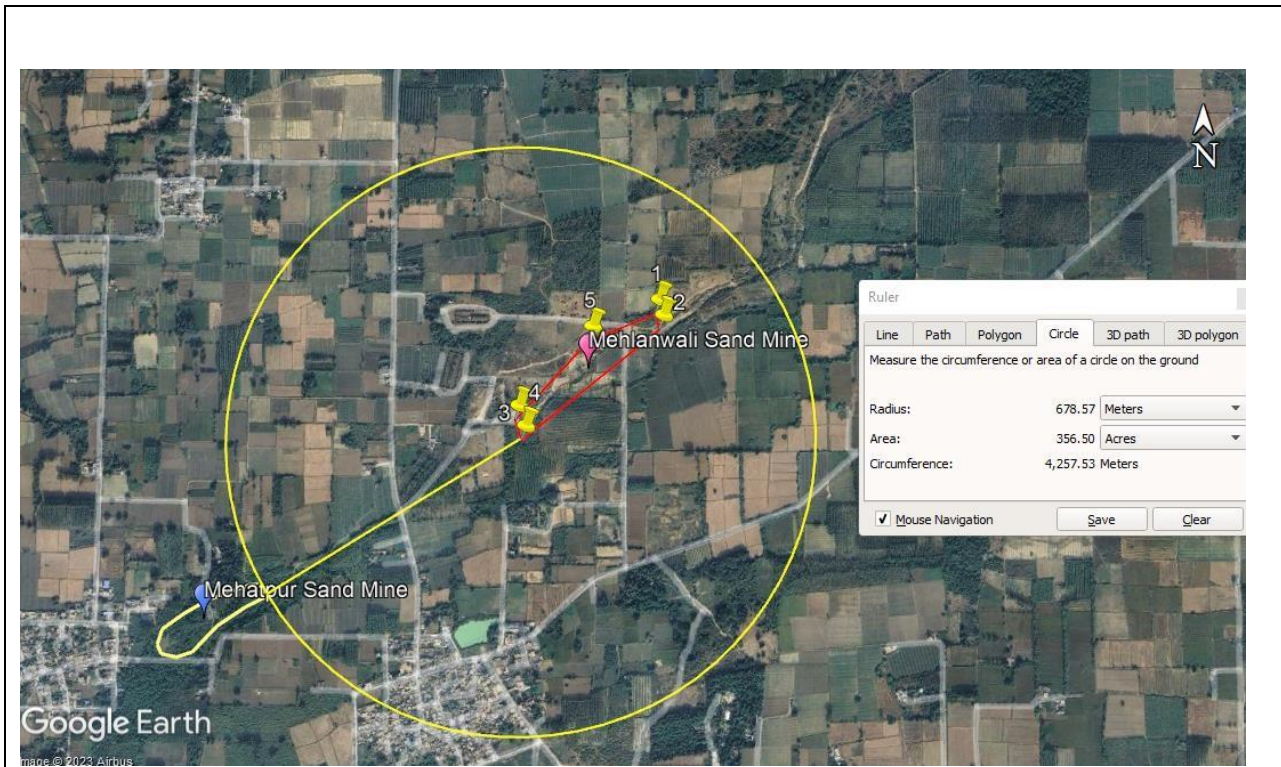
		Village: Mehlanwali Tehsil- Hoshiarpur District- Hoshiarpur, State Punjab
v)	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals

**The details of the mining project are as under:**

S.No.	Item	Details																					
a.	Category of the Project as per the EIA notification dated 14.09.2006	B2																					
b.	Hadbast No. of the Village	<b>344</b>																					
c.	Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal	As per proposal following Khasra No. have been mentioned 37/11, 37/20/1, 38/15/1, 38/16/1, 38/16/2, <b>38/17/1, 38/18/1, 38/22/2, 38/23</b> , 38/24, 38/25, 41/2, 41/3/1, 41/3/2, 41/4, 41/8, 41/9, 41/10, 41/11,41/12  Further, as per approved DSR, no khasra No. have been mentioned, however the Project Proponent mentioned in the application proposal that the proposed site is mentioned under <b>Annexure-V</b> in the category of Mehlanwali Choe at Serial No. 1 having code ML 01.																					
d.	Whether the mining area is less than area mentioned in the DSR,(if yes) the proposed mining area shall be earmarked in the KML file with different color.	No, the Mehlanwali sand mining area mentioned in the DSR is same as per the proposal submitted.																					
d.1	Area details as per Mining plan	6819 TPA																					
e	Longitude & Latitude of the mining site	<table border="1"> <thead> <tr> <th colspan="3">Geo-Coordinates of the Lease Area</th> </tr> <tr> <th>Pillar No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>B.P 1</td> <td>31°30'4.88"</td> <td>75°59'24.98"</td> </tr> <tr> <td>B.P 2</td> <td>31°30'3.72"</td> <td>75°59'25.34"</td> </tr> <tr> <td>B.P 3</td> <td>31°29'55.44"</td> <td>75°59'13.30"</td> </tr> <tr> <td>B.P 4</td> <td>31°29'56.95"</td> <td>75°59'12.72"</td> </tr> <tr> <td>B.P 5</td> <td>31°30'2.87"</td> <td>75°59'19.13"</td> </tr> </tbody> </table>	Geo-Coordinates of the Lease Area			Pillar No.	Latitude	Longitude	B.P 1	31°30'4.88"	75°59'24.98"	B.P 2	31°30'3.72"	75°59'25.34"	B.P 3	31°29'55.44"	75°59'13.30"	B.P 4	31°29'56.95"	75°59'12.72"	B.P 5	31°30'2.87"	75°59'19.13"
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B.P 5	31°30'2.87"	75°59'19.13"																					

f.	Details of cluster formation	There is no cluster formation, undertaking in this regard submitted.
g.	Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)	<b>No land NOC submitted.</b>
h.	Whether demarcation/erection of boundary pillars on the site has been done.	Demarcation Report submitted.
i.	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be	<ol style="list-style-type: none"> <li>1. A copy of certificate issued by the Divisional Forest Officer of District Hoshiarpur submitted, wherein it has been mentioned that the land proposed for the potential sand mining sites is not included in the areas notified under section-4 &amp; 5 of the PLPA, 1900.</li> <li>2. A copy of certificate issued by the Divisional Forest Officer, Wildlife Hoshiarpur submitted, wherein it has been mentioned that the land proposed for the potential sand mining sites does not fall in the eco-sensitive zones of Wildlife Sanctuary and Conservation reserves under the Wildlife (Protection) Act, 1972 and Punjab Wildlife Preservation Act, 1959. Further, the land does not fall in any sanctuary and conservation reserves.</li> </ol>
j.	Salient features of approved mining plans	Salient features of approved mining plan are presented in Environment Management Plan (EMP) and Pre-feasibility Report (PFR), submitted.
k.	Method of mining	Open cast Semi-Mechanized method is proposed for mining.
l.	No. of workers on the site when fully operational	35
m.	Total water requirement for domestic and other usage and its source	Domestic: 0.50 KLD Dust Suppression: 1.00 KLD Green Belt: 1.10 KLD <b>Total: 2.60 KLD</b>
n.	Waste water generation and its disposal	Mobile toilet with Septic tank.

o.	Information regarding nos of truck/trollies per day for carrying the excavated material on the proforma prescribed in the DSR and map showing the transportation route with proper earmarking of katcha, pakka road and ROW.	Transportation of Sand from mine will be done by the dumpers having carriage capacity of appx. 20 tonnes or as per availability of trucks and trolleys. Transportation route map submitted.
p.	Activities to be undertaken under EMP along with its cost.	Submitted
q.	Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.	No litigation is pending against the proposed mining site Self-Declaration certificate is submitted.
r.	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	No trees would be felled during mining activity
s.	The Department shall earmark, on the KML file, the distance from the habitation area from sand mining site. The Department shall certify that the same is in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.	Distance from nearest habitation Mehlawali village is 427 m towards south direction. The same has been incorporated in the KML file.
t.	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Road Bridge- 1.2 Km towards NNE from the mine lease area.
u.	In case, the proposed mining site does not include in a cluster, the Department shall earmark on the KML file, the distance from the nearest mining site.	The proposed mining site does not include in a cluster. Distance from the nearest mining site Mehatpur Sand Mine 0.678 Km towards SW.  The same has been incorporated in the KML file. Below image shows the KML file, the distance from the nearest mining site.



v)	The Department shall outline the environmental impact of the mining operations carried out at site. The Department shall also mention the mitigation measures proposed for mitigating the environmental impacts	The key impact areas for mining operations are: Air, land, water, noise etc. Impacts identified for the said mining site along with the proposed mitigation measures are submitted.
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vi)	The Department/Project Proponent shall include in the EMP, the additional environmental activities to be undertaken by incurring expenditure @ Rs. 0.50/ton of the total quantity permitted for mining in ECs in case of manual mining and @ Rs. 1.50/ton in case of semi-mechanized mining. Any of the following additional environmental activities may be undertaken as a part of EMP:			
		S. No	Proposed Activities	Capital Cost (in Rs.)
		1	Solar Lamp distribution in nearby villages	50,000/-
		2	Provide drinking water in nearby schools	
		3	Constructions of sitting benches in Village streets	



		4	Plantation of trees with tree guards
		5	Distribution of wheel chairs for the handicapped students

During meeting, the Committee perused the SEIAA letter no 542 dated 29.03.2023 vide which SEIAA allowed the Department of Mines & Geology to undertake sand mining in the sites identified in the approved DSR of District Hoshiarpur through its concessionaires or through appropriate alternate methods till 30.06.2023, during which time, the regular Environmental Clearance for the sites will be applied for and obtained by the Department. The permission was granted subject to the condition that in case of river bed sites, depth of extraction should not exceed 1 m and maximum quantity to be extracted should not exceed 50% of the net mineable deposits identified in the DSRs.

Sh. P.S Bhogal & Sh . K.L Malhotra apprised the Committee that the river bed site namely Mehalawali Choe in District Hoshiarpur was visited by the five-member Committee constituted in compliance of the orders of the Hon'ble NGT dated 26-02-2021 in OA No 360 of 2015 on 08.05.2023 and it was observed as under:

- (i) 51 MT of the sand has been excavated out of the 6819 MT quantity of the sand approved in the Mine Plan. Thus, only 0.75 % of the sand was excavated out of the total approved quantity as there was very little demand of sand at this site.
- (ii) The Department further informed that one of the main reasons for lack of demand appeared to be the very poor quality of sand at this site.

SEAC took note of the above and observed that as per the inspection report, the Department of Mines and Geology has extracted only 0.75% of the permissible mineable deposits identified in the DSR as per the approval granted by SEIAA.

SEAC further perused the Khasra no. mentioned in the land NOC & jamabandi and observed that the khasra no. mentioned in the land NOC does not speak in the ownership of the land owner as per jamabandi. The Committee asked the Department to submit the revised land NOC in the name of the actual land owner.

The Committee further made it clear to the Department that the transportation from the mining site shall be done only with dumpers having carriage capacity not exceeding 10 MT. The Department agreed to the same.

After detailed deliberations, SEAC decided to send the case to SEIAA with a recommendation to return it to the Department of Mines & Geology with an advice to re- consider the

requirement of Environmental Clearance for this site after assessing the quality of sand and the demand.

### **1.0 Deliberations during 250<sup>th</sup> meeting of SEIAA held on 09.06.2023**

The case was considered by SEIAA in its 250<sup>th</sup> meeting held on 09.06.2023 which was attended by the following:

- (i) Mr. Arshad Shaik, Senior Executive Technical M/s Right Source Industrial Solutions Pvt Ltd (Through VC).
- (ii) Mr. Paras Mahajan, Asst. Geologist.
- (iii) Mr. Sandeep Kumar, SDO, Hoshiarpur

Environmental Consultant presented the salient features of the project. A copy of the presentation submitted by project proponent was taken on record.

In reply to query by SEIAA regarding the poor quality of sand and lack of demand for the same as observed by the 5 member NGT inspection committee and referred to by SEAC in the proceedings of its 248<sup>th</sup> meeting, project proponent informed that mining operations at this site had just commenced just a few days before the visit of the inspection committee and public demand had not yet commenced being a new mining site. The initial quality of sand was also not up to the mark at the head of this site being located very close to habitation. However, both the quality of sand and the demand had now picked up considerably and the public was regularly lifting sand from this site. This was borne out by the fact that 12% (as on 09.06.2023) of the total permissible quantity had been sold till date (against just 0.75% on the day of visit of the NGT committee). Project proponent therefore requested that EC for this site may kindly be granted.

SEIAA was satisfied with the reply of the project proponent and decided that the case may be referred back to SEAC with the request to appraise the same and forward its recommendations to SEIAA.

### **Deliberations during 252<sup>nd</sup> meeting of SEAC held on 17.07.2023.**

The meeting was attended by the following:

- (i) Sh. Sartaj Singh Randhawa, XEN, Drainage-cum-Mining & Geology Division, Water Resources Department, Hoshiarpur.
- (ii) Mr. Sandeep Kumar, SDO, Hoshiarpur
- (iii) Mr. Arshad Shaik, Senior Executive Technical M/s Right Source Industrial Solutions Pvt Ltd (Through VC).

During meeting, the Committee asked the Department to submit an undertaking duly signed by the DMO to the effect that the khasra Nos & area mentioned in the application proposal and land NOC are as per the latest jamabandi of Village Mehlanwali. Further, the Department shall also mention in an undertaking that no High Transmission Line are passing over the

proposed mining area. If in case, the High Transmission Line are passing over the proposed mining site, the Department shall leave ROW as per the statutory norms/guidelines. The Department agreed to the same and submitted an undertaking in this regard.

After detailed deliberations, SEAC decided to forward the application proposal to SEIAA with recommendation for grant Environment Clearance under EIA Notification dated 14.09.2006 for carrying out mining of minor minerals (sand) at Village Mehlanwali, Tehsil & District Hoshiarpur by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Hoshiarpur Division subject to the specific conditions attached as Annexure-1 of the proceedings of the SEAC.

### **Deliberations during 257<sup>th</sup> meeting of SEIAA held on 01.08.2023**

The case was considered by SEIAA in its 257<sup>th</sup> meeting held on 01.08.2023 which was attended by Sh. Sandeep Kumar, SDO, Hoshiarpur, Drainage-cum-Mining & Geology Division, Water Resources Department, Hoshiarpur. However, Environmental Consultant engaged by the Mining Department was absent. Further, the Project Proponent failed to submit proper reply regarding the details of the Environmental Management Plan and component-wise expenditure proposed to be undertaken under the same.

SEIAA observed that the proceedings of the meetings of SEAC are very sketchy and do not specify required particulars of the mining site or basic details of the EMP like amount to be spent on standard activities like dust suppression, maintenance of haul roads, safety gear, plantation @ 50 plants / ha, solid waste management etc. Only a few random activities for Rs 50,000 have been mentioned against AEA activities out of which several activities are in fact CSR activities. Even the extent of area from which mining is proposed to be undertaken by the PP or the quantity of minor minerals recommended for approval viz-a-viz quantity approved in the DSR / Mine Plan have not been specified in the proceedings of the SEAC meetings or its final recommendations. As such there is no clarity regarding the basic parameters for which grant of EC has been recommended.

Since a very large number of applications for Environmental Clearance for mining of minor minerals are yet to be received, SEIAA decided that a standardized Performa in Tabular Form should be devised for appraising mining projects and conveyed to SEAC so as to ensure that no important parameter is inadvertently missed in appraisal / proceedings of SEAC meeting vide which the case is recommended. This will also greatly speed up the processing time in both SEIAA and SEAC which is an important consideration in view of the large number of such cases presently pending as also expected to be submitted in the near future.

After detailed deliberations, SEIAA decided as under:

- i) Case be remanded back to SEAC for sending the revised recommendations on the prescribed Performa to be used for appraising mining projects as per above observations of SEIAA.
- ii) Prescribed Performa (**Annexure-I**) be sent to the SEAC for requisite action as per S No. (i) above.



### Template for the appraisal of mining project

S.No.	Item	Details			
1.	Online Proposal No. and date of submission				
2.	Project Name & Location				
3	Name of the Applicant, Designation Mobile no. & Email Id				
4	Name of Environmental Consultant , Mobile no. & Email Id				
5	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals			
6	Details of Mining Lease				
i)	Mineral (s) to be mined	1) Sand 2) specify other			
ii)	Method of mining	Manual/Semi Mechanized			
iii)	Agriculture land or River/choe mining. In case of River/Choe mining, name of the River/Choe to be specified.				
iv)	d. Capacity of Mine as per the EC application/DSR/Mining plan in MT and TPA	Description	As per the EC application	As per the approved DSR	As per the Mining Plan
	e. Area of the Mine as per EC application/DSR/Mining plan	Mine Capacity in MT			
		Mine Capacity in TPA			
	f. Depth of mining as per EC application/DSR/Mining plan	Mining Area on mining in HA			

		Depth of Mining in m			
		Note: EC cannot be appraised more than quantity and area mentioned in the approved DSR			
v)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt., where applicable		Reference No: Date of Issue: Validity of LOI: Mining Lease Area: Mining Quantity:		
7	Details of Final District Survey Report		Approved by :- Reference No: Date of Issue: Safe distance from banks (m): Annual rate of replenishment as per the study conducted:		
8	HadBast No.				
9	Land Khasra No. & their consent details				
	Sr No	Type	Khasra No	Consent details provided (Yes/No)	
	1	Govt Land			
	2	Private Land			
10	Latitude & Longitude				
	S.No.	Corner	Latitude	Longitude	
	1				
11	Whether the project attracts the General Condition. (Yes/No). In case of Yes, Please specified the reason.				
12	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				

13	Does the project fall of eco-sensitive area/ National park/Wild Life Sanctuary? If yes, application submitted to NBWL.	
14	Cost of the project	Rs. _____ Crores
15	Environmental Clearance. Fee details	Rs _____/- Vide NEFT No _____ dated _____
16	Certificate to be provided by DMO, that the proposal is as per the annexure-V of DSR.	Certificate No: Date
17	Demarcation report of mining site	Date of demarcation: Nos of Burjis made: _____ Nos Photographs submitted: Yes/No Signed by : 1) Name and Designation 2) Name and Designation 3) _____
18	Workers (when fully operational)	_____ Persons.
19	Water Requirements & source	Domestic: _____ KLD ( @ 45 lpcd) Other if any _____ KLD Total: _____ KLD Ground water/Others: 01 Borwell
20	Waste water generation, Treatment & its Disposal	i) Quantity of Waste water : _____ KLD (80% of water requirement) ii) Treatment Method: Septic Tank iii) Mode of Disposal : a) Plantation purpose.: _____ KLD b) Any other purpose: _____ KLD
21	Solid waste generation and its disposal	i) Quantity _____ ii) Method of 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 ) : _____ Nos No of plant to be planted: _____ Nos Funds Allocated: : Rs _____ lacs towards capital cost and Rs _____ Lacs towards recurring cost.

		( Rs 1000/- per tree as capital cost and Rs 1000/- per tree as maintenance cost)								
23	Rain Water Harvesting & recharging proposal									
24	Environment Management Plan along with Budgetary breakup and responsibility to implement	Sh. _____ (Director) will be responsible for the implementation of EMP till the mining activities closed as per the mining plan.								
25	Sr No.	Description	Capital cost (lakhs)	Recurring cost (lakhs per annum)						
	1	Provision of Septic Tank								
	2	Handling of Solid waste								
	3	Provision of Green Belt (Rs 1000/- per tree as capital cost and Rs 1000/- per tree as maintenance cost)								
	4	Dust Suppression Activities								
	5	Occupational Health measure such as first aid and other miscellaneous								
	6	Environmental Monitoring (Air, Water Soil etc.).								
	7	Rain Water Harvesting & recharging								
	8	Regular health check-up camps for the workers engaged in mines shall be organized.								
	9	Any other, Please specify.								
26	<p><b>Additional Environmental Activities (AEA) activities along with budgetary break up and responsibility</b></p> <p>Sh. _____ (Director) of M/s. _____ will be responsible for implementation of Additional Environmental Activities (AEA). As the project having minable Quantity _____MT, The project proponent has proposed to spent Rs _____ Lakhs (i.e @ Rs 0.50 per Ton) for AEA activities. It was proposed to spent the said amount on the followings: -</p> <p>i) The project proponent shall deposit Rs _____ for Green Area development in the Greening Punjab Mission revenue head of the state treasury through the DFO prior to commencement of mining operations and thereafter 1 year after grant of EC as specified at S No. 3 of Table 1 in the following Budget Head:</p> <p style="text-align: center;">Table-1</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td><b>Demand No.</b></td> <td><b>32- Forestry and Wildlife</b></td> </tr> <tr> <td><b>Major Head</b></td> <td><b>0406 – Forestry and Wildlife</b></td> </tr> <tr> <td><b>Sub-Major Head</b></td> <td><b>01 – Forestry</b></td> </tr> </table>				<b>Demand No.</b>	<b>32- Forestry and Wildlife</b>	<b>Major Head</b>	<b>0406 – Forestry and Wildlife</b>	<b>Sub-Major Head</b>	<b>01 – Forestry</b>
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<b>Sub-Major Head</b>	<b>01 – Forestry</b>									



	<table border="1"> <tr> <td>Minor Head</td> <td>102- Receipts from Social and Farm Forestry</td> </tr> <tr> <td>Sub-Head</td> <td>03 – Green Punjab Mission</td> </tr> <tr> <td>Detailed Head</td> <td>01- Green Punjab Mission Fees</td> </tr> </table>	Minor Head	102- Receipts from Social and Farm Forestry	Sub-Head	03 – Green Punjab Mission	Detailed Head	01- Green Punjab Mission Fees
Minor Head	102- Receipts from Social and Farm Forestry						
Sub-Head	03 – Green Punjab Mission						
Detailed Head	01- Green Punjab Mission Fees						
	<p>i) Rs _____ for repair of haulage road of village and planation alongside the road so as to minimize the impact of air pollution due to increase traffic on the villagers and /or</p> <p>ii) Rs _____ for Local needs of habitants like school, crèche, hospital, veterinary hospital, sanitation, drinking water etc.</p>						
27	<p>Other important facts:</p> <p>Following facts may be considering while recommending the case:-</p> <p>i) No court case/litigation is pending before any court of Law against the project and/or land in which the project is proposed to be set up.</p> <p>ii) During the lease period, the deposit will be worked from the top surface to 3 m or _____m below ground level or above ground water table, whichever comes first.</p> <p>iii) No Stream Mining shall be allowed. The operation will be done only from sun rise to sun set hence there will be no power requirement for the project at site.</p> <p>iv) All the activities will be carried out manually using hand tools like shovel, pan, sieve etc.</p> <p>v) In case of semi mechanized method allowed, Justification for the same must be given indicating its benefits over the manual method.</p> <p>vi) An undertaking submitted to the effect that no Cluster formation of mining site exists as no other mining site falls within a radius of 500 m from the periphery of proposed site</p> <p>Or</p> <p>The total area of all borrowing/excavation sites including the area of proposed project within a radius of 500 m from the proposed area of borrowing / excavation is less than 5 hectares.</p>						
28	<p><b>Clear-cut-Recommendation:</b></p> <p>Committee observed that the project proponent has provided adequate and satisfactory clarifications of the observations raised by it. Therefore, the Committee awarded ‘Silver Grading’ to the project proposal and decided to forward the case to the SEIAA with the recommendation to grant environmental clearance under EIA notification dated 14.09.2006 for the sand mining project with production capacity of 66547 TPA (48633 TPA for Jaloke and 17914 TPA for jaloke-2) over an area of 4.78 Ha (3.41 Ha for Jaloke + 1.37 ha for Jaloke-2) in the river bed of river Sutlej, located at Village-Jaloke, Tehsil Patti &amp; District-Tarn Taran, Punjab to the Executive Engineer-Tarn Taran cum Drainage-cum-Mining &amp; Geology Division, Tarn Taran subject to certain conditions as mentioned in the Annexure-1 of the proceeding of SEAC, proposed measured as mentioned in the approved mining plan and the following additional conditions :-</p>						

	1) abc 2) xyz
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**(b) For B1 Category**

29	Baseline Environmental Details must be added such as Air Quality, Water (Surface +Ground) Environment, Soil And Biological Environment, Socio Economic Environment, Risk Studies & Disaster Management  Comments may be given .			
30	Comments on the compliance of TOR issued to the Project Proponent.  At-least Important/ additional TORs should be considered by SEAC.			
31	Public Consultation a. Public consultation conducted on ..... b. Presided over by the ..... and attended by .....persons c. Publicity through local newspapers/media i.e. ..... on dated ..... was given 30 days in advance of the date. d. The project proponent has given commitment to fulfil the environmental and social responsibility for development of community of nearby villages.			
	SR No.	Issues raised by the Public	Point Represented	Commitment of the Project Proponent along with budget and timelines
	1	Mr X.....		
	2	Mr. Y .....		

**Deliberations during 257<sup>th</sup> meeting of SEAC held on 28.08.2023.**

The meeting was attended by the following:

- (i) Sh. Sartaj Singh Randhawa, XEN, Drainage-cum-Mining & Geology Division, Water Resources Department, Hoshiarpur.
- (ii) Mr. Sandeep Kumar, SDO, Hoshiarpur
- (iii) Mr. Arshad Shaik, Senior Executive Technical M/s Right Source Industrial Solutions PvtLtd.

The Committee perused the proforma at **Annexure-I** devised by SEIAA and observed that most of the details has already been captured in the proforma already used by SEAC to appraise the cases of mining. Further, some of the categories/sub categories such as rain water harvesting & recharging proposal, solid waste generation & its disposal, applicability of general conditions etc., was found to be insignificant for appraising the mining proposals. After due deliberations, the Committee revised the proforma sent by SEIAA with details as under:

**Brief Summary of the Gravel Mining project:**

(A) General

i)	Name of Applicant & Correspondence address:  Mobile No: Email ID:	
ii)	Name of Environmental Consultant  Mobile No. Email ID	
iii)	Online Proposal No. & date of Submission	
iv)	Project Name & Location	
v)	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	

**1.0 The details of the mining project are as under:**

Sr. No	Item	Details			
a)	Category of the Project as per the EIA notification dated 14.09.2006				
b)	Details of Proposed Mining Site (Agriculture land or River/choe mining. In case of River/Choe mining, name of the River/ Choe to be specified.) (Whether it is a CMS/PMS etc.)				
	Mineral (s) to be mined	1) Sand 2) specify other			
	Method of mining	Manual/Semi Mechanized			
c)	a) Capacity of Mine as per the EC application/DSR/Mining plan in MT and TPA	Description	As per the EC application	As per the approved DSR	As per the Mining Plan
	b) Area of the Mine as per EC application/DSR/Mining plan	Total Mine Capacity in MT			

	c) Depth of mining as per EC application/DSR/Mining plan	Mine Capacity in TPA												
		Mining Area on mining in HA												
		Depth of Mining in m												
d)	Details of Final District Survey Report	Approved by :- Reference No: Date of Issue: Safe distance from banks (m): Annual rate of replenishment as per the study conducted:												
e)	Hadbast No. of the Village													
f)	Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal i. <table border="1" data-bbox="288 1032 1445 1261"> <thead> <tr> <th>Khasra No. as per proposal</th> <th>Khasra No. as per DSR</th> <th>Khasra No. as per consent of land</th> <th>Name of owner of the land as per land NOC, DSR and Jamabandi</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> ii. Whether undertaking to the effect that the land area & Khasra Nos mentioned in the land NOC of the respective land owners are in the name of the same land owner as per the latest jamabandi of Proposed mining site or not, submitted by the concerned DMO? (Y/N)						Khasra No. as per proposal	Khasra No. as per DSR	Khasra No. as per consent of land	Name of owner of the land as per land NOC, DSR and Jamabandi				
Khasra No. as per proposal	Khasra No. as per DSR	Khasra No. as per consent of land	Name of owner of the land as per land NOC, DSR and Jamabandi											
g)	Whether the mining area is less than area mentioned in the DSR, (If yes) the proposed mining area shall be earmarked in the KML file with different color.													
h)	Demarcation report of mining site	Date of demarcation: Photographs submitted: Yes/No (Note: Photographs must clearly indicate Burji(s)/marking pillars)												

		Signed by : 1) Name and Designation 2) Name and Designation 3) _____	
i)	Longitude & Latitude of the mining site		
	<b>Geo-Coordinates of the Lease Area</b>		
	<b>Pillar No.</b>	<b>Latitude</b>	<b>Longitude</b>
j)	Is there a cluster formation (Y/N); Include KML file indicating distance from the closest cluster(s).		
k)	Whether demarcation/erection of boundary pillars on the site has been done.		
l)	Does the project involve diversion of forest land. If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof		
m)	Does the project fall of eco-sensitive area/ Nationalpark/Wild Life Sanctuary? If yes, application submitted to NBWL.		
n)	Salient features of approved mining plans		
o)	Environmental Clearance. Fee details	Rs _____/- Vide NEFT No _____ dated _____	
p)	No. of workers on the site when fully operational		
q)	Total water requirement for domestic and other usage and its source		
r)	Waste water generation and its disposal		

s)	Information regarding nos of truck/trolleys per day for carrying the excavated material on the proforma prescribed in the DSR and map showing the transportation route with proper earmarking of katcha, pakka road and ROW.					
t)	Activities to be undertaken under EMP along with its cost.	<b>Sr. No.</b>	<b>Environment mitigation measure</b>	<b>Capital Cost (In Lacs)</b>	<b>Recurring Cost (Lacs/annum )</b>	
		1	Repairing of road for transport of mining material and its subsequent maintenances			
		2	Water Sprinkling Measures			
		3	Drinking water facility, Septic Tank & Mobile toilets and solid waste management			
		4	Safety shoes/masks/earplugs / first aid kit etc.			
		5	Additional Environment Activities  (The amount will be deposited to Forest Department for utilization of the same for development of greenarea(s)/belt(s))			
		6	Regular health check-up camps for the workers engaged in mines shall be organized.			
		7	Environmental Monitoring (Air, Water Soil etc.).			
		<b>Total</b>				
		* _____ shall be responsible for implementation of EMP till the mining activities closed as per the mining plan.				
u)	Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.					

v)	Cost of the project	Rs. _____ Crores
w)	Environment Management Plan along with Budgetary breakup and responsibility to implement.	An undertaking by the Project Proponent shall be submitted designating an Officer(s) who will be responsible for the implementation of EMP till the mining activities closed as per the mining plan.

i)	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	
ii)	The Department shall earmark, on the KML file, the distance from the habitation area from sand mining site. The Department shall certify that the same is in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.	
iii)	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	
iv)	In case, the proposed mining site does not include in a cluster, the Department shall earmark on the KML file, the distance from the nearest mining site.	
v)	The Department shall outline the environmental impact of the mining operations carried out at site. The Department shall also mention the mitigation measures proposed for mitigating the environmental impacts	
	<b>Additional Environmental Activities (AEA) activities along with budgetary break up and responsibility</b> Sh. _____ (Director) of M/s. _____ will be responsible for implementation of Additional Environmental Activities (AEA). As the project having minable Quantity _____MT, The project proponent has proposed to spent Rs_____	

Lakhs (i.e @ Rs 0.50 per Ton) for AEA activities. It was proposed to spent the said amount on the followings: -

- ii) The project proponent shall deposit Rs \_\_\_\_\_ for Green Area development in the Greening Punjab Mission revenue head of the state treasury through the DFO prior to commencement of mining operations and thereafter 1 year after grant of EC as specified at S No. 3 of Table 1 in the following Budget Head:

Table-1

<b>Demand No.</b>	<b>32- Forestry and Wildlife</b>
<b>Major Head</b>	<b>0406 – Forestry and Wildlife</b>
Sub-Major Head	01 – Forestry
Minor Head	102- Receipts from Social and Farm Forestry
Sub-Head	03 – Green Punjab Mission
Detailed Head	01- Green Punjab Mission Fees

- iii) Rs \_\_\_\_\_ for repair of haulage road of village and plantation alongside the road so as to minimize the impact of air pollution due to increase traffic on the villagers and /or
- iv) Rs \_\_\_\_\_ for Local needs of habitants like school, crèche, hospital, veterinary hospital, sanitation, drinking water etc.

**(b) For B1 Category**

i.	Baseline Environmental Details must be added such as Air Quality, Water (Surface +Ground) Environment, Soil and Biological Environment, Socio Economic Environment, Risk Studies & Disaster Management				
	Comments may be given .				
ii.	Comments on the compliance of TOR issued to the Project Proponent.				
	At-least Important/ additional TORs should be considered by SEAC.				
iii.	Public Consultation				
	e. Public consultation conducted on .....				
	f. Presided over by the ..... and attended by .....persons				
	g. Publicity through local newspapers/media i.e. .... on dated ..... was given 30 days in advance of the date.				
	h. The project proponent has given commitment to fulfil the environmental and social responsibility for development of community of nearby villages.				
	<table border="1"> <tr> <th>SR No.</th> <th>Issues raised by the Public</th> <th>Point Represented</th> <th>Commitment of the Project Proponent along with budget and timelines</th> </tr> </table>	SR No.	Issues raised by the Public	Point Represented	Commitment of the Project Proponent along with budget and timelines
SR No.	Issues raised by the Public	Point Represented	Commitment of the Project Proponent along with budget and timelines		



	1	Mr X.....		
	2	Mr. Y .....		

The Committee further asked the Project Proponent to submit the information in the revised Proforma. The Project Proponent submitted the information in the prescribed Performa with details as under:

**Brief Summary of the Gravel Mining project:**

(A) General

i)	Name of Applicant & Correspondence address:  Mobile No: Email ID:	Sartaj Singh Randhawa, Executive Engineer-Hoshiarpur Drainage –cum-Mining & Geology Division, Hoshiarpur, WRD Punjab  9417900074 sartaj.randhawa074@punjab.gov.in
ii)	Name of Environmental Consultant  Mobile No. Email ID	Right Source Industrial Solutions Pvt. Ltd  8977495343 eiaemp@rightsource.co.in
iii)	Online Proposal No. & date of Submission	SIA/PB/MIN/423947/2023, Date 29.03.2023
iv)	Project Name & Location	Mehlanwali Sand Mine, (Choe Bed-Lease Code; ML 01)  Village - Mehlanwali, Teh- Hoshiarpur District- Hoshiarpur, State-Punjab
v)	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals

**1.0 The details of the mining project are as under:**

S.No.	Item	Details
a)	Category of the Project as per the EIA notification dated 14.09.2006	B2
b)	Details of Proposed Mining Site (Agriculture land or River/choe mining. In case of River/Choe mining,	(Choe Bed-Lease Code; ML 01)

	name of the River/ Choe to be specified.) (Whether it is a CMS/PMS etc.)				
	Mineral (s) to be mined	Sand			
	Method of mining	Open cast semi-mechanized			
c)	a) Capacity of Mine as per the EC application/DSR/Mining plan in MT and TPA	<b>Description</b>	<b>As per the EC application</b>	<b>As per the approved DSR</b>	<b>As per the Mining Plan</b>
		Total Mine Capacity in MT	13,638	27720	13,638
	b) Area of the Mine as per EC application/DSR/Mining plan	Mine Capacity in TPA	6,819	-	6,819
	c) Depth of mining as per EC application/DSR/Mining plan	Mining Area on mining in HA	2.5	2.5	2.5
		Depth of Mining in m	1.2	1.2	1.2
d)	Details of Final District Survey Report	Approved by :-SEIAA Reference No:399 Date of Issue:13.02.2023 Safe distance from banks (m): Annual rate of replenishment as per the study conducted:			
e)	Hadbast No. of the Village	344			
f)	Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal				
	i.				
	Khasra No. as per proposal	Khasra No. as per DSR	Khasra No. as per consent of land		Name of owner of the land as per land NOC, DSR and Jamabandi
	37/11, 37/20/1, 38/15/1, 38/16/1, 38/16/2, 38/17/1, 38/18/1, 38/22/2, 38/23, 38/24, 38/25, 41/2, 41/3/1, 41/3/2,	37/11,37/20/1, 38/15/1,38/16/1, 38/16/2,38/17/1, 38/18/1,38/22/2, 38/23, 38/24, 38/25, 41/2,	38//17//1/2,38//18/1, 38//2/2,38//23,37//20/1, 38//16/1,16/2,24,25,41//3/2,4,10		

	41/4, 41/8,41/9, 41/10,41/11,41/12	41/3/1, 41/3/2, 41/4, 41/8, 41/9, 41/10,41/11,41/12		
	ii. Whether undertaking to the effect that the land area & Khasra Nos mentioned in the land NOC of the respective land owners are in the name of the same land owner as per the latest Jamabandi of Proposed mining site or not, submitted by the concerned DMO? (Y/N) <b>YES</b>			
g)	Whether the mining area is less than area mentioned in the DSR, (If yes) the proposed mining area shall be earmarked in the KML file with different color.		No, the Mehlanwali sand mining area mentioned in the DSR is same as per the proposal submitted.	
h)	Demarcation report of mining site		Date of demarcation: 27.02.2023 Photographs submitted: Yes Submitted	
i)	Longitude & Latitude of the mining site			
	<b>Geo-Coordinates of the Lease Area</b>			
	<b>Pillar No.</b>	<b>Latitude</b>	<b>Longitude</b>	
	B.P 1	31°30'4.88"	75°59'24.98"	
	B.P 2	31°30'3.72"	75°59'25.34"	
	B.P 3	31°29'55.44"	75°59'13.30"	
	B.P 4	31°29'56.95"	75°59'12.72"	
	B.P 5	31°30'2.87"	75°59'19.13"	
j)	Is there a cluster formation (Y/N); Include KML file indicating distance from the closest cluster(s).		There is no cluster formation.	
k)	Whether demarcation/erection of boundary pillars on the site has been done.		Yes	
l)	Does the project involve diversion of forest land. If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof		No	
m)	Does the project fall of eco-sensitive area/ Nationalpark/Wild Life		Submitted	

	Sanctuary? If yes, application submitted to NBWL.																													
n)	Salient features of approved mining plans	Salient features presented in Pre-feasibility Report (PFR).																												
o)	Environmental Clearance. Fee details	Rs.5000/- Vide NEFT No. N088232390730705, dated. 29.03.2023																												
p)	No. of workers on the site when fully operational	35																												
q)	Total water requirement for domestic and other usage and its source	<b>Total: 2.60 KLD</b> Domestic: 0.50 KLD Dust Suppression: 1.00 KLD Green Belt: 1.10 KLD																												
r)	Waste water generation and its disposal	Waste water generation 0.40KLD. Mobile toilet with Septic tank followed by Soak pit.																												
s)	Information regarding nos of truck/trolleys per day for carrying the excavated material on the proforma prescribed in the DSR and map showing the transportation route with proper earmarking of katcha, pakka road and ROW.	Transportation will be done by Tractors having carriage capacity of appx. 10 tonnes. (Enclosed as Annexure -3 Transportation route map)																												
t)	Activities to be undertaken under EMP along with its cost.	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Environment mitigation measure</th> <th>Capital Cost (In Lacs)</th> <th>Recurring Cost (Lacs/annum)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Repairing of road for transport of mining material and its subsequent maintenances</td> <td>10,000</td> <td>5,000</td> </tr> <tr> <td>2</td> <td>Water Sprinkling Measures</td> <td>20,000</td> <td>5,000</td> </tr> <tr> <td>3</td> <td>Drinking water facility, Septic Tank &amp; Mobile toilet and Solid Waste Management</td> <td>20,000</td> <td>5,000</td> </tr> <tr> <td>4</td> <td>Safety Shoes/Dust Masks/Ear Plugs/First aid kit.</td> <td>10,000</td> <td>4,000</td> </tr> <tr> <td>5</td> <td>Additional Env. Activities (Green Belt Development)</td> <td>6819</td> <td>6819</td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>Total</b></td> <td><b>66819</b></td> <td><b>25819</b></td> </tr> </tbody> </table> <p>*DMO shall be responsible for implementation of EMP till the mining activities closed as per the mining plan.</p>	Sr. No.	Environment mitigation measure	Capital Cost (In Lacs)	Recurring Cost (Lacs/annum)	1	Repairing of road for transport of mining material and its subsequent maintenances	10,000	5,000	2	Water Sprinkling Measures	20,000	5,000	3	Drinking water facility, Septic Tank & Mobile toilet and Solid Waste Management	20,000	5,000	4	Safety Shoes/Dust Masks/Ear Plugs/First aid kit.	10,000	4,000	5	Additional Env. Activities (Green Belt Development)	6819	6819	<b>Total</b>		<b>66819</b>	<b>25819</b>
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5	Additional Env. Activities (Green Belt Development)	6819	6819																											
<b>Total</b>		<b>66819</b>	<b>25819</b>																											

u)	Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.	No, Self-Declaration certificate submitted.
v)	Cost of the project	0.19 Crores
w)	Environment Management Plan along with Budgetary breakup and responsibility to implement.	Submitted

i)	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	No trees would be felled during mining activity
ii)	The Department shall earmark, on the KML file, the distance from the habitation area from sand mining site. The Department shall certify that the same is in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.	Distance from nearest habitation Mehlanwali village is 427 m towards south direction. The same has been incorporated in the KML file and will be presented before the committee. (Nearest Habitation Enclosed Annexure-1)
iii)	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Road Bridge - 1.2 Km towards NNE from the mine lease area.
iv)	In case, the proposed mining site does not include in a cluster, the Department shall earmark on the KML file, the distance from the nearest mining site.	The proposed mining site does not include in a cluster. Distance from the nearest mining site Mehatpur Sand Mine 0.678 Km towards SW. The same has been incorporated in the KML file and will be presented before the committee. Below image shows the KML file, the distance from the nearest mining site. (Enclosed nearest mining site Mehatpur Sand Mine Annexure.No - 2)
v)	The Department shall outline the environmental impact of the mining operations carried out at site. The Department shall also mention the mitigation measures proposed for mitigating the environmental impacts	The proposed mitigation measures are presented in Environmental Management Plan EMP.

### **Annexure-1**

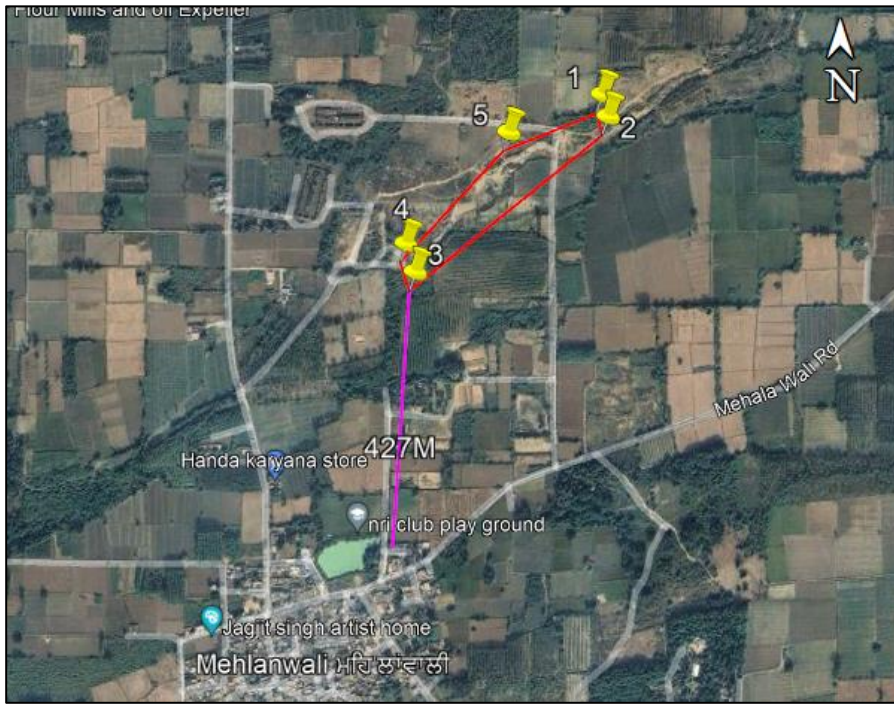


Figure-1 shows nearest Habitation

**Annexure - 2**

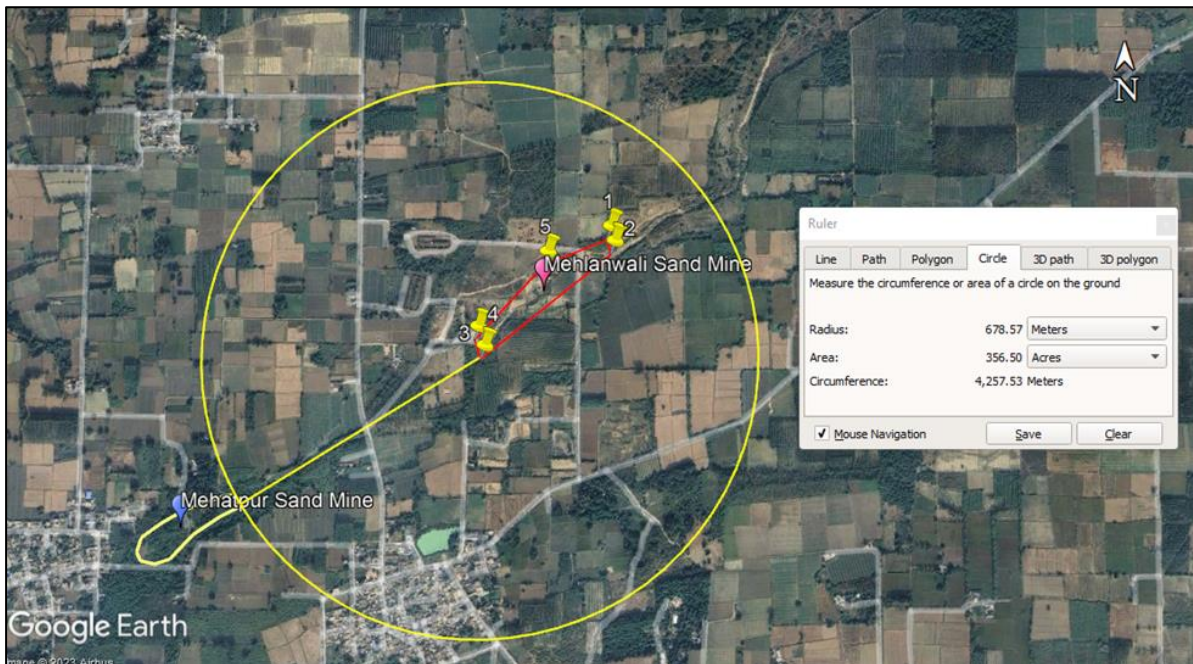
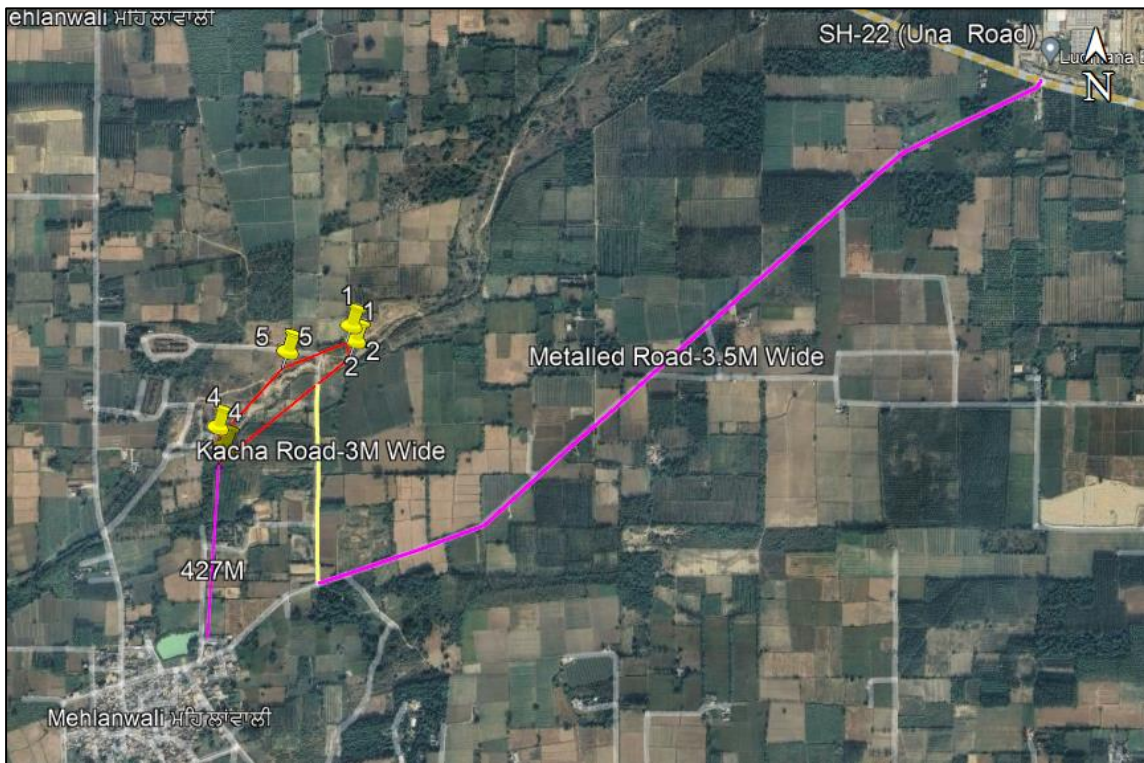


Figure-2 shows Distance from the nearest mining site

**Annexure - 3**



**Figure - 3 Transportation route map**

Further, the Committee asked the Project Proponent that the amount allocated for the green belt development be deposited with Forest Department. The Project Proponent submitted the revised EMP with details as under:

Sr. No.	EMP Budget Capital & Recurring	Capital Cost (INR)	Recurring Cost (INR)
1	Repairing of road for transport of mining material and its subsequent maintenances	10,000	5,000
2	Water Sprinkling Measures	20,000	5,000
3	Drinking water facility, Septic Tank & Mobile toilet and Solid Waste Management	20,000	5,000
4	Safety Shoes/Dust Masks/Ear Plugs/First aid kit.	10,000	4,000
5	Additional Env. Activities (Green Belt Development)	6819	6819
	<b>Total</b>	<b>66819</b>	<b>25819</b>

After detailed deliberations, SEAC decided to forward the application proposal to SEIAA with the recommendation to grant Environment Clearance under EIA Notification dated 14.09.2006 for carrying out mining of minor minerals (sand) in the area of 2.5 Ha for the quantity of 13638 MT, which shall not exceed the quantity of 27720 MT as per the approved DSR at Village Mehlanwali, Tehsil Hoshiarpur, Punjab subject to the conditions attached as **Annexure-1** and special conditions as follows:

**Special Condition:**

1. The Project Proponent shall deposit the amount allocated for the green belt development to Forest Department for utilization of the same in green belt/green area development.



**Item No. 257.10: Application for Environment Clearance under EIA Notification dated 14.09.2006 for establishment of Proposed Shopping Complex “PALM MARINA” at Hadbast No. 152, Vill. Fatehpur Awana, Ladhawal Bye Pass Ludhiana, Punjab by M/s RAUNI DEVELOPERS PRIVATE LIMITED. (SIA/PB/INFRA2/434886/2023).**

The project proponent has applied for obtaining Environment clearance for establishment of shopping complex namely “PALM MARINA” by M/s RAUNI DEVELOPERS PRIVATE LIMITED at Hadbast No.152, Village. Fatehpur Awana, Ladhawal Bye Pass, Distt Ludhiana (PB). The total land area of the project is 14832.5 sqm and net plot area is 14565.35 (Net plot Area after road widening) having built-up area of 40742.88 sqm. The project is covered under category 8(a) of the schedule appended with the EIA Notification dated 14.09.2006.

The Project Proponent has submitted online form, PFR and other relevant documents through Parivesh Portal. He has also deposited Rs. 81,486/- vide UTR no. N172232512397898 dated 21.06.2023. The adequacy of the fee has been checked & verified by the supporting staff of SEIAA.

Punjab Pollution Control Board vide letter No. 2150 dated 25.08.2023 furnished the latest construction status report as under:

*“In continuation to this office letter under reference, it is further clarified that as per documents available with this office and as received from the office of GLADA vide their office letter no. 2492 dated 06.04.2023, the revised status report of the project is as under: -*

- (i) No constructional activity has been started by the project proponent at site yet.*
- (ii) There is no MAH, Air/water polluting industry, river, drain, and eco-sensitive structures within the radius of 500m from the boundary of the project. However, water body namely Sidhwan branch of Sirhind canal exist at a distance of approximately 40m from the boundary wall of the site.*
- (iii) The project proponent has been granted change of land use by the GLADA vide their office letter No. 1507 dated 30.12.2022 for an area of 29 kanal 6 marla (3.6625 acres) for conversion of land from residential to commercial colony at Village Fatehpur Awana (Hadbast No. 152), Tehsil Ludhiana West, District Ludhiana. Further, this CLU has been amended by the GLADA vide their office letter No. 207 dated 24.02.2023 from commercial colony to commercial (shopping mall without multiplex) purpose instead of commercial colony.*
- (iv) The Senior Town Planner, GLADA vide No. 377-STP(L)/B.A.I dated 27.03.2023 has approved the site plan of the commercial colony for shopping complex with total area of 14832.85 sqm (3.6625 acres).*
- (v) In view of (III) & (IV) above and as per the criteria laid down by the Government of Punjab, Department of Science, Technology & Environment vide Notification No. 3/6/07/STE(4)/2274 dated 25.07.2008, as amended on 30.10.2009 as amended on 31.10.2019, the proposed site of the commercial colony (Shopping mall without multiplex) is suitable for its establishment.”*

**Deliberations during 257<sup>th</sup> meeting of SEAC held on 28.08.2023.**

The meeting was attended by the following:

- (i) Mr. Deepak Ratra, General Manager M/s Rauni Developers Private Limited.
- (ii) Sh. Sital Singh, Environmental Consultant M/s CPTL.
- (iii) Dr. Rajnish Sharma, Environmental Consultant M/s CPTL.

The Committee allowed the Environmental Consultant to present the salient features of the application proposal. Thereafter, the Environmental Consultant presented the case as under:

Sr. No.	Description	Details
<b>1</b>	<b>Basic Details</b>	
1.1	Name of Project & Project Proponent:	Proposed shopping complex "palm marina"
1.2	Proposal:	SIA/PB/INFRA2/434886/2023
1.3	Location of Industry:	AT HADBAST NO. 152, VILL FATEHPUR AWANA, LADHOWAL BYE PASS, LUDHIANA, PUNJAB
1.4	Details of Land area & Built up area:	The plot area is 14565.35 sqm (Net plot Area after road widening) and estimated built-up area after will be 40742.88 m <sup>2</sup> .
1.5	Category under EIA notification dated 14.09.2006	The project falls under S.No. 8(a) , Category B2
1.6	Cost of the project	Total – Rs 85.00 Cr.
1.7	Compliance of Public Hearing Proceedings	Not applicable
<b>2.</b>	<b>Site Suitability Characteristics</b>	
2.1	Whether site of the industry is suitable as per the provisions of Master Plan:	The site falls in the residential zone as per the notified Master Plan of Ludhiana.
2.2	Whether supporting document submitted in favour of statement at 2.1, details thereof: (CLU/building plan approval status)	A copy of the permission for Change of Land Use for Commercial Colony for the land measuring 3.6625 acres by GLADA issued vide Memo no. 1507 dated 30.12.2022 submitted.
<b>3</b>	<b>Forest, Wildlife and Green Area</b>	
3.1	Whether the Project required clearance	No forest land is involved in the project. An undertaking in the prescribed format submitted.

	under the provisions of Forest Conservation Act 1980 or not:	A copy of the letter issued by DFO; Ludhiana vide No. FCA/1980/815 dated 03.05.2023 submitted wherein it has been mentioned that the no forest land is involved in the project area.				
3.2	Whether the industry required clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900:	No, the project does not require the clearance under the provisions of Punjab Land Preservation Act (PLPA) 1900. An undertaking in the prescribed format submitted.				
3.3	Whether industry required clearance under the provisions of Wildlife Protection Act 1972 or not:	No, the project does not require clearance under wildlife protection act 1972. An undertaking in the prescribed format submitted.				
3.5	Whether the industry falls within the influence of Eco-Sensitive Zone or not. (Specify the distance from the nearest Eco sensitive zone)	No. the project does not fall in any eco sensitive zones				
3.5	Green area requirement and proposed No. of trees:	Total area – 14832.85 sqm Net plot area 14565.35sqm No. of trees to be planted - 182				
<b>4.</b>	<b>Proposal &amp; configuration</b>					
	<b>Sr. No.</b>	<b>Description</b>	<b>Area(sqm)</b>			
	<b>1.</b>	Plot Area as per approved Plan	14832.85			
	<b>2.</b>	Road Widening area	267.5			
	<b>3.</b>	Net Plot Area	14565.35			
	<b>4.</b>	Ground Coverage	Required		Provided	
			6554.4	45%	6547.79	44.95%
	<b>5.</b>	Floor Area Ratio	Required		Provided	
			1:3	1:1.61		

6.	Parking	Required	Provided	
		464	485	
<b><u>COVERAGE DETAIL OF PROPOSED BUILDINGS</u></b>				
<b><u>S.No.</u></b>	<b><u>Description</u></b>	<b><u>FAR AREA(SQM)</u></b>	<b><u>Non FAR Area (SQM)</u></b>	<b><u>Total Area (SQM)</u></b>
<b><u>A</u></b>	BASEMENT-2	-	9643.42	9643.42
	BASEMENT-1	3737.13	5954.54	9691.67
	GROUND FLOOR	6547.79	425.95	6973.75
	FIRST FLOOR	6547.79	425.95	6973.75
	SECOND FLOOR	6547.79	425.95	6973.75
	TERRACE (MUMTIES)	-	486.55	486.55
	<b>TOTAL</b>		<b>23,380.5</b>	<b>17,362.36</b>
		A	B	A+B
<b><u>B</u></b>	TOTAL FAR AREA(A)	23380.50 SQM		
<b><u>C</u></b>	TOTAL BUILT UP AREA	<b>40742.88 SQM</b>		
The above said details are as per the layout approved from Senior Town Planner, Ludhiana.				
4.0	<b>Population &amp; Configuration</b>			
4.1	Population details	5657 Persons		
<b>5</b>	<b>Water</b>			
5.1	The total population of the project shall be 5657 persons & total water requirements for the project will be about 105KLD out of which domestic fresh water demand will be approx. 42 KLD.			
	Built up area Basement and G/F= 10284.92 Sqm	1 person/ 3 sqm = 3428 persons		
	Built up area on 1st & 2nd floor = 13095.55 Sqm	1 person/ 6 sqm = 2183 persons		
	Total Population	5611 Persons	Total Water requirement	
	Water requirement (90% of the total population)	5050 persons @ 15lt/person	76 M3/day	

	Water requirement (10% of the total population)	561 persons @ 45lt/person	25 M3/day	
	Food court	50 @35 ltr / person	2 M3/day	
	<b>Total consumption of domestic water</b>		<b>103 M3/day</b>	
	<b>Total Discharge @ 80% to STP</b>		<b>82 M3/day</b>	
	Flushing floating	5049@10 ltr/person	50 M3/day	
	Flushing permanent	561 @20 ltr/person	11 M3/day	
	Green area	700 Sqm plantation and 900 sqm green area under Karnal Technology	21 M3/day	
5.2	Source:	Own Tube Well		
5.3	Whether Permission obtained for abstraction/supply of the fresh water from the Competent Authority (Y/N) Details thereof	The Project Proponent submitted the application for obtaining permission for abstraction of ground water. Acknowledgement of the same is submitted.		
5.4	Cumulative Details: Water Consumption for Summer (KLD)			
	<b>S. No.</b>	<b>Total water Requirement</b>	<b>Total wastewater generated</b>	<b>Flushing water requirement</b>
	1.	103 KLD	82 KLD	61 KLD
				<b>Green area requirement (700 sq.m “green area” and 900 sqm “Karnal Technology”)</b> Watering plants for irrigation as per Karnal Technology (21 KLD)
5.8	Rain water harvesting proposal:	Rain water harvesting system have been proposed for artificial rain water recharge within the project premises.		
<b>6</b>	<b>Air</b>			
6.1	Details of Air Polluting Machinery and APCDs installed are as under:			
<b>7</b>	<b>Waste Management</b>			

7.1	Total quantity of solid waste generation	The quantity of MSW will be 869 kg/day.		
7.2	Details of management and disposal of solid waste (Mechanical Composter/Compost pits)	Necessary arrangements for segregation and collection of solid wastes shall be made at source. The recyclables like paper, plastic, tins etc. will be sold to authorized vendors and the Municipal solid wastes will be treated through Mechanical composter.		
<b>8</b>	<b>Energy Saving &amp; EMP</b>			
8.1	Power Consumption:	Total power demand for the proposed project will be 1850 KW which will be provided by Punjab State Power Corporation Limited (PSPCL).		
8.2	Energy saving measures:	LEDs have been proposed to be used instead of CFLs.		
9.	Details under Environment Management Plan <b>Constructional Phase-</b>			
	<b>SR. NO.</b>	<b>PARTICULARS</b>	<b>APPROX. CAPITAL COST (Rs LAC)</b>	<b>APPROX. RECURRING COST (Rs LAC)</b>
	1.	Medical Cum First Aid	1.5	0.5
	2.	Toilets for workers	2.0	0.5
	3.	Wind breaking curtains	2.0	0.5
	4.	Sprinklers or suppression of dust	2.0	0.5
	5.	Sewage Treatment Plant	40.0	---
	6.	Solid waste Management	8.0	--
	7.	Green site development	6.0	--
				<b>ITEMS COVERED</b>
				First aid medical facility with first aid kit
				Toilets with septic tank
				Wind breaking walls at vulnerable areas
				Sprinklers, Pipeline
				Construction of STP
				Making arrangement for solid waste segregation & disposal
				Land scaping & tree plantation

8.	Rain water harvesting	6.0	--	Construction rain water harvesting well & channel
<b>TOTAL COST</b>		<b>Rs 67.5</b>	<b>Rs 2.0</b>	
<b>OPERATION PHASE:</b>				
<b>SR. NO.</b>	<b>PARTICULARS</b>	<b>RECURRING COST (Rs. LAC)</b>	<b>ITEMS COVERED</b>	
1.	Sewage Treatment Plant	6.0	Operation & maintenance of sewage treatment plant including salary of operators	
2.	Solid Waste Segregation & disposal	2.0	Colored Bins at appropriate Locations	
3.	Green Belt Including Lawns coverage	4.0	Development Of green belt, watering & manuring	
4	RWH	1.0	Cleaning of channels & harvesting pits	
<b>TOTAL</b>		<b>Rs 13.0</b>		
<b>ADDITIONAL ENVIRONMENTAL RESPONSIBILITY:</b>				
<b>S. No.</b>	<b>CER ACTIVITY</b>	<b>CAPITAL COST</b>	<b>RECURRING COST</b>	
1	Avenue plantation/Plantation in Community areas: 1500 trees plantation and their maintenance for 5 years	Rs 15.0 Lacs	Rs 11.0 Lacs	
2	Solar Power Electrification: 60 solar lights @ Rs. 26,000/- per light including the cost of installation of poles @Rs. 22,000/-per pole	Rs 27.80 Lacs	Rs 5.2 Lacs	
3	Construction /Maintenance of toilets / washrooms in village / school Village:	Rs 20.0 Lacs	Rs 6.0 Lacs	
<b>TOTAL</b>		<b>Rs 85 Lacs</b>		

The Committee was satisfied with the reply given by the Project Proponent and after detailed deliberations, the Committee decided to award '**Silver Grading**' to the project proposal and decided to forward the application of the project proponent to SEIAA with the recommendation to grant Environmental Clearance for establishment of Proposed Shopping Complex "PALM MARINA" at Hadbast No. 152, Vill. Fatehpur Awana, Ladhawal Bye Pass Ludhiana, Punjab, subject to the following standard & specific conditions:

**Specific Conditions:**

1. The Project Proponent shall cover at least 25% of the roof top area of the building for installation of solar panels. Further, the solar panels of minimum capacity 100 KW shall be installed at roof top of the building.

**I. Statutory compliances:**

- i) The project proponent shall obtain all necessary clearances/ permissions from all relevant agencies including the town planning authority before commencement of work. All the construction shall be done in accordance with the local building bye laws.
- ii) The approval of the Competent Authority shall be obtained for the structural safety of buildings due to earthquakes, adequacy of firefighting equipment, etc. as per the National Building Code including protection measures from lightning, etc.
- iii) The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purposes is involved in the project.
- iv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v) The project proponent shall obtain Consent to Establish / Operate under the provisions of the Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Punjab Pollution Control Board.
- vi) The project proponent shall obtain the necessary permission for the abstraction of groundwater/ surface water required for the project from the competent authority.
- vii) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii) All other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire Department, and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix) The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.



- x) The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi) The project site shall conform to the suitability as prescribed under the provisions laid down under the master plan of the respective city/ town. For that, the project proponent shall submit the NOC/ land use conformity certificate from Deptt. of Town and Country Planning or other concerned Authority under whose jurisdiction, the site falls.
- xii) Besides the above, the project proponent shall also comply with siting criteria/guidelines, standard operating practices, code of practice, and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such types of projects.
- xiii) The project proponent shall construct the buildings as per the layout plan approved from the Competent Authority and in consonance of the project proposal for which this environment clearance is being granted.

## **II. Air quality monitoring and preservation**

- i) Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii) A management plan shall be drawn up and implemented to contain the current exceedance in the ambient air quality at the site.
- iii) The project proponent shall install a system to undertake Ambient Air Quality monitoring for common /criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5) covering upwind and downwind directions during the construction period.
- iv) Diesel power generating sets proposed as a source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel would be the preferred option. The location of the DG sets may be decided in consultation with Punjab Pollution Control Board.
- v) Construction site shall be adequately barricaded before the construction begins. Dust, smoke and other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, and continuous dust/ wind-breaking walls all around the site (at least 3 m height or 1/3rd of the building height and maximum up to 10 m). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, 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 and demolition waste or any other construction material that causes dust shall be left uncovered.

- viii) No uncovered vehicles carrying construction material and waste shall be permitted.
- ix) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- x) Grinding and cutting of building material in open areas shall be prohibited. A wet jet shall be provided for grinding and stone cutting.
- xi) Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- xii) All construction and demolition debris shall be stored at the site within the earmarked area and roadside storage of construction material and waste shall be prohibited. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- xiii) The diesel generator sets to be used during the construction phase shall be low sulphur diesel type and shall conform to the norms and regulations prescribed under air and noise emission standards.
- xiv) The gaseous emissions from the DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xv) For indoor air quality, the ventilation provisions as per the National Building Code of India shall be complied with.
- xvi) Roads leading to or at the construction site must be paved and blacktopped (i.e., metallic roads should be built and used).
- xvii) Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.
- xviii) Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measures will be notified at the site

### **III. Water quality monitoring and preservation**

- i) The natural drainage system should be maintained for ensuring unrestricted flow of water.
- ii) No construction shall be allowed which obstructs the natural drainage through the site, in wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
- iii) Buildings shall be designed to follow the natural topography as far as possible. Minimum cutting and filling should be done.
- iv) The total freshwater use shall not exceed the proposed requirement as mentioned in the application proposal.

- v) 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.
- vi) During the construction phase, the project proponent shall ensure that the wastewater generated from the labour quarters/toilets shall be treated and disposed of in an environment-friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately designed septic tanks for the treatment of such wastewater and treated effluents shall be utilized for green area/plantation.
- vii) The project proponent shall ensure a safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided, if required.
- viii) The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC and SEIAA along with six-monthly monitoring reports.
- ix) A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration, and the balance of water available. This should be specified separately for groundwater and surface water sources, ensuring that there is no impact on other users.
- x) 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.
- xi) Dual pipe plumbing shall be installed for supplying fresh water for drinking, cooking and bathing, etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, air conditioning etc.
- xii) Installation of R.O. plants in the project will be discouraged in order to reduce water wastage in form of RO reject. However, in case the requirement of installing RO plant is unavoidable, the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component or in a common place in the project premises.
- xiii) The project proponent shall also adopt the new/innovative technologies like low water discharging taps (faucet with aerators) /urinals with electronic sensor system /waterless urinals/twin flush cisterns/ sensor-based alarm system for overhead water storage tanks and make them a part of the environmental management plans/building plans so as to reduce the water consumption/groundwater abstraction.
- xiv) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/other purposes etc. and will colour code the different pipelines carrying water/wastewater from different sources / treated wastewater as follows:

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

- xv) Water demand during construction should be reduced by the use of pre-mixed concrete, curing agents, and adopting other best practices.
- xvi) The CGWA provisions on rainwater harvesting should be followed. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of the plot area and a storage capacity of a minimum of one day of the total freshwater requirement shall be provided. In areas where groundwater recharge is not feasible, the rainwater should be harvested and stored for reuse. The groundwater shall not be withdrawn without approval from the Competent Authority.
- xvii) All recharge should be limited to shallow aquifers.
- xviii) No groundwater shall be used during the construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and should be available at the site.
- xix) Any groundwater dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any groundwater abstraction or dewatering.
- xx) The quantity of freshwater usage, water recycling, and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC, and SEIAA along with six-monthly Monitoring reports.
- xxi) Sewage shall be treated in the STP with tertiary treatment by providing ultra-filtration Technology. STP shall be installed in a phased manner viz a viz in the module system

designed in such a way so as to efficiently treat the wastewater with an increase in its quantity due to rise in occupancy. The treated effluent from STP shall be recycled/reused for flushing and gardening. No treated water shall be disposed of into the municipal stormwater drain.

- xxii) No sewage or untreated effluent would be discharged through stormwater drains. Onsite sewage treatment with a capacity to treat 100% wastewater will be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry / SEIAA before the project is commissioned for operation. Treated wastewater shall be reused on-site for landscape, flushing, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by the Ministry of Environment, Forest, and Climate Change. Natural treatment systems shall be promoted.
- xxiii) Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxiv) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed of as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

#### **IV. Noise monitoring and prevention**

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

#### **V. Energy Conservation measures**

- i) Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii) Outdoor and common area lighting shall be LED.
- iii) Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope,

appropriate fenestration, increased daylighting design and thermal mass, etc. shall be incorporated in the building design. Wall, window, and roof U-values shall be as per ECBC specifications.

- iv) Energy conservation measures like the installation of LEDs for lighting the area outside the building should be an integral part of the project design and should be in place before project commissioning.
- v) Solar, wind, or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi) At least 30% of the rooftop area shall be used for generating Solar power for lighting in the apartments so as to reduce the power load on the grid. A separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher.

## **VI. Waste Management**

- i) A certificate from the competent authority handling municipal solid waste, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from the project shall be obtained.
- ii) The Project Proponent shall install Mechanical Composter of adequate capacity to treat wet component of the Solid Waste.
- iii) Disposal of muck during the construction phase should not create any adverse effect on the neighbouring communities and should be safely disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of the competent authority.
- iv) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating the segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- v) Organic waste compost/ Vermiculture pit/ Organic Waste Converter/Mechanical Composter within the premises must be installed for treatment and disposal of the solid waste.
- vi) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie-up must be done with the authorized recyclers.
- vii) Any hazardous waste generated during the construction phase, shall be disposed of as per applicable rules and norms with the necessary approvals of the State Pollution Control Board.
- viii) Use of environment-friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly

Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.

- ix) Fly ash should be used as a building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready-mixed concrete must be used in building construction.
- x) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- xi) Used CFLs and TFLs should be properly collected and disposed of or sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

## **VII. Green Cover**

- i) No naturally growing tree should be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department.
- ii) At least a single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. The project proponent shall ensure the planting of trees in the project area at the identified location, as the per proposal submitted, with plants of native species preferably having broad leaves. The size of the plant thus planted should not be less than 6 ft and each plant shall be protected with a fence and properly maintained. The project proponent shall make adequate provisions of funds to ensure maintenance of the plants for a further period of three years and thereafter, protected throughout the entire lifetime of the Project. The species with heavy foliage, broad leaves, and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. The plantation should be undertaken as per SEIAA guidelines. The plantation to be carried out under Karnal Technology shall be in addition to the green area plantation of the project.
- iii) The Project Proponent shall develop a green belt with native tree species (having canopy type structure and especially trees, and not grass) before the completion of the project. The greenbelt shall inter alia cover the entire periphery of the unit provided that the number of trees to be planted should not be less than one tree per 80 sqm of the total land area. The canopy trees shall also be planted around the parking area to provide shade to the parked vehicles.
- iv) Where the trees need to be cut with prior permission from the concerned local Authority, a compensatory plantation in the ratio of 1: 10 (i.e. planting of 10 saplings of the same species for every tree that is cut) shall be done and the newly planted saplings will be maintained for at least 5 years. Green belt development shall be undertaken as per the details provided in the project document.

- v) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during the plantation of the proposed vegetation on site.
- vi) The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.
- vii) The green belt along the periphery of the plot shall achieve an attenuation factor conforming to the day and night noise standards prescribed for commercial land use.
- viii) The project proponent shall submit the progress of developing the green belt in the six-monthly compliance report.

#### **VIII. Transport**

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



## IX. Human health issues

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

## X. Environment Management Plan

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

### Constructional Phase-

SR. NO.	PARTICULARS	APPROX. CAPITAL COST (Rs LAC)	APPROX. RECURRING COST (Rs LAC)	ITEMS COVERED
1.	Medical Cum First Aid	1.5	0.5	First aid medical facility with first aid kit
2.	Toilets for workers	2.0	0.5	Toilets with septic tank

3.	Wind breaking curtains	2.0	0.5	Wind breaking walls at vulnerable areas
4.	Sprinklers for suppression of dust	2.0	0.5	Sprinklers, Pipeline
5.	Sewage Treatment Plant	40.0	---	Construction of STP
6.	Solid waste Management	8.0	--	Making arrangement for solid waste segregation & disposal
7.	Greenbelt development	6.0	--	Land scaping & treeplantation
8.	Rain water harvesting	6.0	--	Construction rain water harvesting well & channel
<b>TOTAL COST</b>		<b>Rs 67.5</b>	<b>Rs 2.0</b>	

**OPERATION PHASE:**

SR. NO.	PARTICULARS	RECURRING COST (Rs. LAC)	ITEMS COVERED
1.	Sewage Treatment Plant	6.0	Operation & maintenance of sewage treatment plant including salary of operators
2.	Solid Waste Segregation & disposal	2.0	Colored Bins at appropriate Locations
3.	Green Belt Including Lawns coverage	4.0	Development Of green belt, watering & manuring
4	RWH	1.0	Cleaning of channels & harvesting pits
<b>TOTAL</b>		<b>Rs 13.0</b>	

**ADDITIONAL ENVIRONMENTAL RESPONSIBILITY:**

S. No.	CER ACTIVITY	CAPITAL COST	RECURRING COST
1	Avenue plantation/Plantation in Community areas: 1500 trees plantation and their maintenance for 5 years	Rs 15.0 Lacs	Rs 11.0 Lacs

2	Solar Power Electrification: 60 solar lights @ Rs. 26,000/- per light including the cost of installation of poles @Rs. 22,000/-per pole	Rs 27.80 Lacs	Rs 5.2 Lacs
3	Construction /Maintenance of toilets / washrooms in village / school Village:	Rs 20.0 Lacs	Rs 6.0 Lacs
<b>TOTAL</b>		<b>Rs 85 Lacs</b>	

## **XI. Validity**

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

## **XII. Miscellaneous**

- ii) The project proponent shall obtain a completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab before allowing any occupancy.
- iii) The project proponent shall comply with the conditions of CLU, if obtained.
- iv) The project proponent shall prominently advertise in at least two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
- 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 have to publicly 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 a half-yearly basis.
- vii) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at the Environment Clearance portal and submit a copy of the same to SEIAA.
- viii) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the

Environment (Protection) Rules, 1986, as amended subsequently and put the same on the website of the company.

- ix) The project proponent shall inform the Regional Office as well as SEIAA Punjab, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- x) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- xi) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during public hearing and also those made to SEIAA / SEAC during their presentation.
- xii) No further expansion or modifications in the project shall be carried out other than those permitted in this EC without prior approval of SEIAA. In case of deviation or alterations in the project proposal from those submitted to the Ministry/SEIAA for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- xiii) The Regional Office, MoEF&CC, Chandigarh, Punjab Pollution Control Board and SEIAA/SEAC members nominated for the purpose shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) entrusted with this monitoring by furnishing the requisite data/ information/monitoring reports.
- xiv) This Environmental Clearance is granted subject to final outcome of pending related cases in the Hon'ble Supreme Court of India, Hon'ble High Courts, Hon'ble NGT and any other Court of Law as may be applicable to this project.

### **XIII. Additional Conditions**

- i) The approval is based on the conceptual plan/drawings submitted with the application. In case, there is variation in built-up area/green area/ any other details in the drawings approved by the competent authority, the Project Proponent shall obtain the revised Environmental Clearance.
- ii) The Project Proponent shall ensure that the natural drainage channels in the project site including streams, drains, choes, creeks, rivulets, etc. are not disturbed so that the natural flow of rainwater, etc is not impeded or disrupted in any manner.
- iii) Authorization from Punjab Pollution Control Board shall be obtained as applicable under the Bio-Medical Waste Management Rules 2016 as amended from time to time.
- iv) The solid waste other than Bio-Medical Waste & Hazardous Waste (dry as well as wet garbage) generated should be properly collected and segregated before disposal to Municipal Authorities in accordance with the Municipal Solid Waste (Management &

Handling) Rules, 2000. No municipal waste should be disposed off outside the premises in contravention of relevant rules and by-laws. Adequate measures should be taken to prevent any malodour in and around the Project premises.

- v) In the event that the project proponent decides to abandon/close the Project at any stage, he shall submit an application in the prescribed form along with requisite documents through Parivesh to SEIAA for surrendering the Environmental Clearance as per the procedure prescribed in OM dated 29.03.2022 issued by the MoEF&CC. The project proponent shall be accountable for adherence/compliance of the EC conditions till such time as the project is finally closed by SEIAA, based upon the certified closure report of Integrated Regional Offices (IROs) of MoEF&CC, Chandigarh/PPCB.
- vi) This Environmental Clearance is liable to be revoked without any further notice to the Project Proponent in case of failure to comply with condition (v) above.
- vii) 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.
- viii) The Project Proponent shall manage the solid waste generated from the project as per the sub-rule-7 of rule-4 of SWM Rules 2016.
- ix) The Ministry reserves the right to stipulate additional conditions if found necessary. The Promoter Company in a time bound manner shall implement these conditions.
- x) The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.
- xi) Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

### Specific conditions:

- (i) The project proponent shall demarcate the mining lease area in the presence of Lambardar of the village, project proponent/ contractor, owner of the land and owner of the adjoining land, Revenue officer & Mining officer, etc. Mining lease area will be demarcated on the ground with pucca pillars with reference to some permanent benchmark before starting any mining activity at site.
- (ii) Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the Mining official and its geo-coordinates are made available to the District Level Committee.
- (iii) Mining shall be carried out through semi- mechanized method as proposed in the mining plan.
- (iv) Mining shall be as per the approved Development/Mining Plan prepared for this project and as per the Mines & Mineral (Development & Regulation) Act, 1957 and rules framed there under as amended from time to time, other Acts/rules related with mining of minor minerals.
- (v) The mining activity shall be carried out strictly as per the Sustainable Sand Mining Management Guidelines 2016, the provisions made in Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by MoEF&CC, New Delhi as amended from time to time and the guidelines issued by the Geological Survey of India.
- (vi) The mining operation will be carried out only from sun-rise to sunset.
- (vii) The project proponent shall earmark at least two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site and monthly monitoring of the depth is to be carried out. District Mining Officer is to monitor the same.
- (viii) The project proponent shall obtain Consent to Establish and Consent to Operate from the Punjab Pollution Control Board (PPCB) and effectively implement all the conditions stipulated therein.
- (ix) The project proponent shall observe the mining site after every 15 days and in case, a Schedule-I or Schedule-II species as per Wildlife Act or any rare or endangered species are reported, the Mining Officer will get a conservation plan prepared in consultation with the Department of Wildlife and ensure its implementation.
- (x) The mining of minor mineral (sand) shall be carried out only up to a depth of 3m as proposed in the approved Mining plan or above the groundwater level, whichever is less.
- (xi) The mining shall be carried out by the contractor/lessor as per the Environment Management Plan prepared and development / mining plan prepared as per the Mines & Mineral (Development & Regulation) Act, 1957 / other Acts/Rules related with mining of minor minerals. It shall be ensured that no mining shall be carried out during the monsoon season as defined by the Meteorological department.
- (xii) The project proponent and Mining officer shall ensure that wherever deployment of labour attracts the Mines Act, the provisions thereof shall be strictly followed.

- (xiii) The project proponent shall undertake plantation/afforestation work by planting native species in the nearby area/ adjacent to the mine lease.
- (xiv) The project proponent shall ensure that effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the ambient air quality parameters conform to the norms prescribed by the Ministry of Environment, Forests & Climate Change (MoEF&CC) /PPCB in this regard.
- (xv) The project proponent shall undertake adequate safeguard measures during extraction of sand and ensure that due to this activity, the hydro-geological and ecological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area by establishing a network of existing wells, if any, and installing new piezometers during the mining operation.
- (xvi) The periodic monitoring of groundwater[(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority (CGWA) and the data thus collected may be sent regularly to the MoEF&CC and its Regional office at Chandigarh, CGWA, the Regional Director, Central Ground Water Board; SEIAA, Punjab and PPCB. If at any stage, it is observed that the groundwater table is getting depleted or rising due to the mining activity, necessary corrective measures shall be carried out.
- (xvii) The project proponent shall obtain necessary prior permission of the competent authorities/CGWA for drawl of requisite quantity of water (surface water and groundwater), if any, required for the project.
- (xviii) In case, mining site falls in the notified block declared by the CGWA, the project proponent shall obtain necessary prior permission for drawl of requisite quantity of water for domestic purposes from District Advisory Committee (DAC) and only use treated waste water for dust suppression activities.
- (xix) Adequate numbers (as proposed) of trees shall be planted, protected, maintained and established in vacant area in the village near the mining site.
- (xx) Appropriate mitigation measures shall be taken by the project proponent to prevent pollution at the mining site in consultation with the PPCB. It shall be ensured that there is no leakage of oil and grease at the mining site from the vehicles/mining equipment used for transportation.
- (xxi) Vehicular emissions shall be kept under control and regularly monitored. The project proponent shall ensure that, as far as possible, the transportation route will be away from the habitation area and will not pass through any village. The transportation hours of mined material shall be restricted to non-peak hours only.
- (xxii) The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. All the public roads as well as approach roads shall be maintained and it shall be ensured that the tippers carrying mined material are not loaded beyond the permissible load as per the designed load bearing

capacity of the road. Moreover, provision of sufficient funds shall be made in the budget for the proper maintenance of the roads.

- (xxiii) A first aid room shall be provided in the project both during construction and operations of the project.
- (xxiv) Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
- (xxv) Provision shall be made for the housing of workers, if residing at site, within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. In case of non-residential/daily workers, provision of adequate bath rooms, mobile toilets, and mobile STP shall be made to avoid open defecation and treated domestic effluent shall be discharged onto the land for plantation.
- (xxvi) The municipal solid waste generated shall be disposed of as per Solid Waste Management (SWM) Rules 2016. Segregation of bio-degradable and non-biodegradable wastes shall be done at site and disposed of as per provisions of SWM Rules. Dustbins will be provided at site and the workers will be guided to put all the waste in these dustbins. if any, in the dustbin. No littering will be permitted at the site as well as in the vicinity.
- (xxvii) The critical parameters such as Respirable Suspended Particulate Matter(RSPM) (Particulate matter with size less than 10 microns i.e., PM10) and Nitrogen oxides (NOx) in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(Total Dissolved Solids(TDS), Dissolved Oxygen(DO), pH, Faecal Coliform and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA. II(M) dated 27.05.2009 issued by MoEF&CC, which is available at [www.envfor.nic.in](http://www.envfor.nic.in) shall also be referred in this regard for its compliance.
- (xxviii) The project proponent shall take all precautionary measures during mining operation for conservation and protection of rare and endangered flora & fauna found in the study area. Action plan for conservation of flora and fauna shall be prepared in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to this project site shall be effectively implemented. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of action plan shall be submitted to the Regional office of the MoEF&CC, Chandigarh and SEIAA, Punjab.
- (xxix) Vehicles hired to be used for transportation of mined material should be in good condition and should conform to the applicable air and noise emission standards as provided in the Motor Vehicles Act,1988.
- (xxx) Ambient noise levels should conform to the prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored.



- (xxxi) The risk assessment and disaster management plan should be prepared.
- (xxxii) The project proponent shall submit the site plan showing the earmarked area for storage of mined material.
- (xxxiii) No mining operation shall be carried out at any point within 75 m of railway line, 60 m from national highway, 50 m from HT line/any public works/reservoirs, tanks/canal/public roads and buildings or inhabitations or 10 m of outer edge of any village road. A safety barrier of 7.5m width shall be left intact around the mine lease boundary.
- (xxxiv) The project proponent shall ensure the implementation of the post-closure mining plan as proposed by the project proponent in the Mining plan.
- (xxxv) The project proponent shall comply with the condition imposed by District Forest Officer (DFO) while granting NOC.

**General Conditions:**

- (i) No change in mining technology and scope of working should be made without prior approval of the MoEF&CC.
- (ii) No change in the calendar plan including excavation, quantum of mineral sand/gravel (minor mineral) and waste should be made.
- (iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM) and NO<sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the PPCB.
- (iv) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM) & NO<sub>x</sub> should be regularly submitted to the MoEF&CC including its Regional office located at Chandigarh and the PPCB / Central Pollution Control Board (CPCB) once in six months and SEIAA, Punjab.
- (v) Personnel working in dusty areas should wear protective respiratory devices and should be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- (vi) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a senior executive, who will report directly to the head of the organization.
- (vii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the MoEF&CC and its Regional office located at Chandigarh and SEIAA, Punjab.
- (viii) The project proponent should inform to the Regional Office of MoEF&CC located at Chandigarh and SEIAA, Punjab regarding the date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

- (ix) The Regional office of MoEF&CC located at Chandigarh and PPCB 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.
- (x) The project proponent shall submit six-monthly reports on the status of compliance of the stipulated environmental clearance conditions including the results of monitored data (both in hard copies as well as by e-mail) to the MoEF&CC, its Regional office Chandigarh, the respective Zonal Office of CPCB , PPCB, and SEIAA, Punjab. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office MoEF&CC, Chandigarh, the respective Zonal Office of CPCB and PPCB, and SEIAA, Punjab.
- (xi) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xii) The project proponent should display a copy of the clearance letter at the Regional office, District Industries Centre and the Collector's office/ Tehsildar's office.
- (xiii) The environmental statement for each financial year ending 31 March in Form-V as is mandated to be submitted by the project proponent to the PPCB (as prescribed under the Environment (Protection) Rules, 1986 amended from time to time), shall also be put on the website of the company along with the status of compliance of environmental clearance conditions. In addition, it shall also be sent to the Regional office of the MoEF&CC, Chandigarh and SEIAA, Punjab by e-mail.
- (xiv) The project proponent shall adhere to the commitments made in the Environment Management Plan.
- (xv) The project proponent should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the environmental clearance letter informing that the project has been accorded Environmental Clearance (EC) and a copy of the clearance letter is available with the PPCB and also at web site of MoEF&CC at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional office of MoEF&CC at Chandigarh and SEIAA, Punjab.
- (xvi) The MoEF&CC and SEIAA, Punjab or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- (xvii) The SEIAA may cancel the EC granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this EC, it is found/ come to the knowledge of the SEIAA that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the EC.
- (xviii) The project proponent shall get the micro chemical analysis of the mined material done from an approved laboratory once in a year and shall submit the analysis results to the MoEF&CC/PPCB and SEIAA, Punjab.

- (xix) The project proponent shall ensure that the contractor shall engage people of local area for mining purpose as far as possible, so as to have opportunities of employment for them.
- (xx) The project proponent may apply for transfer of EC under EIA notification dated 14.09.2006 to the other contractor finalized by the Department of Industries & Commerce to SEIAA, Punjab. However, no activity shall be undertaken by the contractor till the EC is transferred in his name and he is lawfully bound to comply with the conditions of the EC.
- (xxi) The monitoring of the mining project in respect of environment management shall be carried out by the State/District Level Environment Management Cells constituted by the Govt. of Punjab vide notifications dated 03.12.2012.
- (xxii) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days.

**Specific conditions:**

- (i) The project proponent shall demarcate the mining lease area in the presence of Lambardar of the village, project proponent/ contractor, owner of the land and owner of the adjoining land, Revenue officer & Mining officer, etc. Mining lease area will be demarcated on the ground with pucca pillars with reference to some permanent benchmark before starting any mining activity at site.
- (ii) Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the Mining official and its geo-coordinates are made available to the District Level Committee.
- (iii) Mining shall be carried out through semi- mechanized method as proposed in the mining plan.
- (iv) Mining shall be as per the approved Development/Mining Plan prepared for this project and as per the Mines & Mineral (Development & Regulation) Act, 1957 and rules framed there under as amended from time to time, other Acts/rules related with mining of minor minerals.
- (v) The mining activity shall be carried out strictly as per the Sustainable Sand Mining Management Guidelines 2016, the provisions made in Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by MoEF&CC, New Delhi as amended from time to time and the guidelines issued by the Geological Survey of India.
- (vi) The mining operation will be carried out only from sun-rise to sunset.
- (vii) The project proponent shall earmark at least two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site and monthly monitoring of the depth is to be carried out. District Mining Officer is to monitor the same.
- (viii) The project proponent shall obtain Consent to Establish and Consent to Operate from the Punjab Pollution Control Board (PPCB) and effectively implement all the conditions stipulated therein.
- (ix) The project proponent shall observe the mining site after every 15 days and in case, a Schedule-I or Schedule-II species as per Wildlife Act or any rare or endangered species are reported, the Mining Officer will get a conservation plan prepared in consultation with the Department of Wildlife and ensure its implementation.
- (x) The mining of minor mineral (sand) shall be carried out only up to a depth of 3m as proposed in the approved Mining plan or above the groundwater level, whichever is less.
- (xi) The project proponent and Mining officer shall ensure that wherever deployment of labour attracts the Mines Act, the provisions thereof shall be strictly followed.
- (xii) The project proponent shall undertake plantation/afforestation work by planting native species in the nearby area/ adjacent to the mine lease.
- (xiii) The project proponent shall ensure that effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points.

Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the ambient air quality parameters conform to the norms prescribed by the Ministry of Environment, Forests & Climate Change (MoEF&CC) /PPCB in this regard.

- (xiv) The project proponent shall undertake adequate safeguard measures during extraction of sand and ensure that due to this activity, the hydro-geological and ecological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area by establishing a network of existing wells, if any, and installing new piezometers during the mining operation.
- (xv) The periodic monitoring of groundwater[(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority (CGWA) and the data thus collected may be sent regularly to the MoEF&CC and its Regional office at Chandigarh, CGWA, the Regional Director, Central Ground Water Board; SEIAA, Punjab and PPCB. If at any stage, it is observed that the groundwater table is getting depleted or rising due to the mining activity, necessary corrective measures shall be carried out.
- (xvi) The project proponent shall obtain necessary prior permission of the competent authorities/CGWA for drawl of requisite quantity of water (surface water and groundwater), if any, required for the project.
- (xvii) In case, mining site falls in the notified block declared by the CGWA, the project proponent shall obtain necessary prior permission for drawl of requisite quantity of water for domestic purposes from District Advisory Committee (DAC) and only use treated waste water for dust suppression activities.
- (xviii) Adequate numbers (as proposed) of trees shall be planted, protected, maintained and established in vacant area in the village near the mining site.
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- (xxxi) The project proponent shall submit the site plan showing the earmarked area for storage of mined material.

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- (iv) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM) & NOx should be regularly submitted to the MoEF&CC including its Regional office located at Chandigarh and the PPCB / Central Pollution Control Board (CPCB) once in six months and SEIAA, Punjab.
- (v) Personnel working in dusty areas should wear protective respiratory devices and should be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- (vi) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a senior executive, who will report directly to the head of the organization.
- (vii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the MoEF&CC and its Regional office located at Chandigarh and SEIAA, Punjab.
- (viii) The project proponent should inform to the Regional Office of MoEF&CC located at Chandigarh and SEIAA, Punjab regarding the date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (ix) The Regional office of MoEF&CC located at Chandigarh and PPCB 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.

- (x) The project proponent shall submit six-monthly reports on the status of compliance of the stipulated environmental clearance conditions including the results of monitored data (both in hard copies as well as by e-mail) to the MoEF&CC, its Regional office Chandigarh, the respective Zonal Office of CPCB , PPCB, and SEIAA, Punjab. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office MoEF&CC, Chandigarh, the respective Zonal Office of CPCB and PPCB, and SEIAA, Punjab.
- (xi) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
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- (xv) The project proponent should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the environmental clearance letter informing that the project has been accorded Environmental Clearance (EC) and a copy of the clearance letter is available with the PPCB and also at web site of MoEF&CC at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional office of MoEF&CC at Chandigarh and SEIAA, Punjab.
- (xvi) The MoEF&CC and SEIAA, Punjab or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- (xvii) The SEIAA may cancel the EC granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this EC, it is found/ come to the knowledge of the SEIAA that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the EC.
- (xviii) The project proponent shall get the micro chemical analysis of the mined material done from an approved laboratory once in a year and shall submit the analysis results to the MoEF&CC/PPCB and SEIAA, Punjab.
- (xix) The project proponent shall ensure that the contractor shall engage people of local area for mining purpose as far as possible, so as to have opportunities of employment for them.
- (xx) The project proponent may apply for transfer of EC under EIA notification dated 14.09.2006 to the other contractor finalized by the Department of Industries & Commerce



to SEIAA, Punjab. However, no activity shall be undertaken by the contractor till the EC is transferred in his name and he is lawfully bound to comply with the conditions of the EC.

(xxi) The monitoring of the mining project in respect of environment management shall be carried out by the State/District Level Environment Management Cells constituted by the Govt. of Punjab vide notifications dated 03.12.2012.

(xxii) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days.