

Proceedings of 244th meeting of State Expert Appraisal Committee (SEAC) held on 17.04.2023 at 11:00 AM in the Conference Hall no. 2, MGSIPA Complex, Sector-26, Chandigarh

Following were present:

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

Item No. 01: Confirmation of the proceedings of 243rd meeting of State Level Expert Appraisal Committee held on 03.04.2023.

The proceedings of 243rd meeting of State Level Expert Appraisal Committee held on 03.04.2023 were prepared and circulated through email on 10.04.2023. The comment of Sh. KL Malhotra, Member SEAC was received through e-mail on 07.04.2023, which was incorporated in the proceedings of the meeting. SEAC took note of the same and confirmed the proceedings.

Item No. 02: Action taken on the proceedings of the 243rd meeting of State Level Expert Appraisal Committee held on 03.04.2023

The action taken on the decisions of 243rd meeting of State Level Expert Appraisal Committee held on 03.04.2023 has been completed. SEAC noted the same.

Item No. 244.01: Regarding applications for Environmental Clearance for carrying out mining of minor minerals (sand) by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar Division.

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar 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- Aalowal, Tehsil & Distt. Rupnagar (SIA/PB/MIN/421126/2023).

The Department has deposited requisite fee of Rs. 9400/- vide reference no.001161290233 dated 06.03.2023 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/Aalowal/487 dated 17-02-2023. The approval under FCA or NBWL is not applicable.

Deliberations during 243rd meeting of SEAC held on 03.04.2023.

The meeting was attended by the following:

- (i) Mr. Rupinder Singh, Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar Division, Rupnagar.
- (ii) Mr. Sandeep Garg, Environmental Consultant M/s Eco Laboratories Pvt Ltd.

The Committee allowed the Department & Environmental Consultant to present the salient features of the application proposals. Thereafter, the Environmental Consultant present the case as under:

Location of the site	Area (ha.)	Quantity proposed (MT)	Area of the Mining Lease (ha.)	Quantity from lease area (TPA)	Whether Site falls in any cluster, if yes (code/area)	Area of the leased-out area (ha.)	Quantity Leased (MT)
Village-Aalowal, Tehsil & District Rupnagar	4.76	50484	4.70	28471 TPA	No	Nil	Nil

The Committee perused the application proposal of Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar Division for carrying out mining of minor minerals (sand) at the aforementioned mining sites. The Committee observed that the mandatory information required to appraise the applications are missing and there are certain short comings in the application proposals which needs to be rectified/provided.

After detailed deliberations, SEAC informed the proponent about these shortcomings in the proposal and decided to defer all the cases, till the receipt of the reply to the following observations made during the meeting.

- (i) The Department shall submit the synopsis/summary in an annotated form pertaining to the following mandatory information for each of the mining sites:
 - a) Category of the Project as per the EIA notification dated 14.09.2006.
 - b) Hadbast No. of the Village
 - c) Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal
 - 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.
 - e) Longitude & Latitude of the mining site.
 - f) Details of cluster formation
 - g) Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)
 - h) Whether demarcation/erection of boundary pillars on the site has been done.
 - i) Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be.
 - j) Salient features of approved mining plans
 - k) Method of mining
 - l) No. of workers on the site when fully operational
 - m) Total water requirement for domestic and other usage and its source
 - n) Waste water generation and its disposal
 - o) 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.
 - p) Activities to be undertaken under EMP along with its cost.
 - q) Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.
- (ii) The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.
- (iii) 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.
- (iv) The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.
- (v) 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.

(vi) 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 .

(vii) 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:

- a. Developing mini forests (Nanak Bagichi), urban forests, green belts, biodiversity parks etc., raising of avenue plantations and plantations in public/community areas/ educational institutions/Govt. buildings/banks of rivers/cantonment areas or any other land made available by the Govt. agencies and other institutions either by the Project Proponent itself or through the State Forest Department.
- b. Cleaning and rejuvenating village ponds, water bodies, wetlands, storm drains etc. (treatment of village sewer pond using PPCB and other approved scientific models), such as: (i) Action Plan for Rejuvenation of Ponds (<https://ppcb.punjab.gov.in/sites/default/files/documents/Action-Plan-forRejuvenation-of-Ponds-31.03.20.pdf>) (ii) Guidelines for restoration of Water Bodies (<https://ppcb.punjab.gov.in/sites/default/files/documents/Indicative%20Guidelines%20for%20Restoration%20of%20Water%20Bodies%20by%20CPCB.pdf>), and (iii) Technical Committee Report on wastewater treatment (<https://ppcb.punjab.gov.in/sites/default/files/documents/Report%20of%20Technical%20Committee%20For%20Treatment%20of%20wastewater%20of%20Village%20Pond.pdf>)
- c. Developing infrastructure for (i) Utilizing treated effluent of STPs (double plumbing, construction work roadside sprinkling (ii) Reusing STP/ETP sludge as farmyard manure (FYM) or 'other activities approved by CPCB/PPCB/MoEF&CC, and (iii) Replacing soakage pits and/or providing septic tanks in government education institutions and other government buildings/projects.
- d. Provisioning solar panels/lights and other energy saving electric devices/equipment's including LED bulbs etc. in the government/municipal/other public schools, hospitals and dispensaries etc. or in other public buildings.
- e. Provisioning Roof top rainwater harvesting (RWH) and other water/groundwater conservations activities in the government/ municipal/ other public schools, hospitals and dispensaries etc. or in other public buildings.
- f. Provisioning Solid waste management including composting/vermi-composting, authorized approaches of reuse & recycle, Material Recovery Facility (MRF) to reach zero waste condition, etc.
- g. Developing and establishing alternatives to the single use plastic (SUP) and plastic carry bags.
- h. Ameliorating air, water, soil & noise pollution as prescribed in the applicable District Environment Plan (DEP) <https://decc.punjab.gov.in/> where gaps exist and which are not the statutory responsibility of government departments / agencies, including need based environmental activities as proposed by the project proponent/their accredited consultants based on site-specific field surveys of the project and nearby areas and approved by SEIAA/SEAC/PPCB.
- i. Preparing Peoples Biodiversity Register (PBR) at all levels (District, block & village) and conserving state's biodiversity heritage sites (BHS), Eco zones, Hotspots, Wildlife & bird sanctuaries, etc.
- j. Organizing environmental awareness activities/celebrations/programmes, preparing and distributing resource material for abatement and control of pollution and restoration of environment of Punjab and approved by SEIAA/SEAC/PPCB/academic experts.
- k. Suppressing dust by using vacuum cleaners, sprinklers, fountains, misting machines/vehicles/artificial rain etc.

- l. Managing waste in scientific and environmentally sound manner including establishment of recovery facilities of e-waste, construction and demolition waste, plastic waste, toxic/hazardous waste, bio-medical waste, industrial wastes, dairy/Gaushala waste etc.
- m. Promoting and developing eco-tourism areas/activities, green buildings, agriculture diversity, organic/natural farming/herbal/medicinal/botanical gardens, electric vehicles, cleaner fuels, biodegradable materials, etc.
- n. Controlling and managing (In-situ/Ex-situ) stubble burning (Parali) in Punjab.
- o. Developing clean and innovative technologies for reducing water, air and solid waste pollutants including reuse and recycling of resource materials.
- p. Restoration of damage to link road/village road due to mining activity.

Deliberations during 244th meeting of SEAC held on 17.04.2023.

The meeting was attended by the following:

- (i) Mr. Rajat Grover, District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar & Anandpur.
- (ii) Mr. Sandeep Garg, Environmental Consultant M/s Eco Laboratories Pvt Ltd.

SEAC allowed the Department & Environmental Consultant to present the ADS reply of the observations raised by SEAC in its 243rd meeting of SEAC held on 03.04.2023. Thereafter, the Environmental Consultant presented the salient features of the mining site Aalawal as under:

1. Basic details of the Sand Mining Project Aalawal

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	Rupinder Singh Pabla XEN/DMO, Drainage-cum-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 Laboratories & Consultants Pvt. Ltd. 9814003103, 0172461622, consulteco@yahoo.com
iii.	Online Proposal No.	SIA/PB/MIN/421126/2023
iv.	Project Name & Location	RBM Mining Project Village-Aalawal, Tehsil- Rupnagar District- Rupnagar (Punjab) by XEN/DMO District: Rupnagar, Government of Punjab
v.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	1(a) Mining of Minor Minerals

2. Details of the mining project as required by the SEAC Committee held on 03.04.2023:

S.No.	Details Sought	Details
a.	Category of the Project as per the EIA notification dated 14.09.2006	B2
b.	Hadbast No. of the Village	331
c.	Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal	405(0-7), 406(1-2), 411(3-4), 435(1-0), 505(0-18), 510(2-9), 436(1-1), 412(0-17), 413(2-3), 401(2-14), 424(0-16), 428(0-16), 429(0-4), 430(0-5), 431(0-8), 432(0-7), 438(0-9), 414(1-5), 404(0-16), 407(0-9), 408(1-0), 409(0-9), 427(0-16), 434(0-8), 426(0-12), 150(8-3), 151(0-19), 152(10-5), 153(0-4), 171(31-11), 172(9-12), 175(2-18), 177(2-4)
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.	YES. Two khasra number are removed.
d.1	Area of the mining site as per DSR	4.76 Ha
e	Longitude & Latitude of the mining site	
	Pillar No.	Latitude
		Longitude
	PIT-I	
	1	31° 4'27.29"N
		76°35'21.26"E
	2	31° 4'26.91"N
		76°35'21.80"E
	3	31° 4'26.35"N
		76°35'21.79"E
	4	31° 4'26.50"N
		76°35'22.68"E
	5	31° 4'24.09"N
		76°35'23.00"E
	6	31° 4'24.10"N
		76°35'22.67"E
	7	31° 4'21.85"N
		76°35'22.53"E
	8	31° 4'21.84"N
		76°35'23.40"E
	9	31° 4'20.79"N
		76°35'23.45"E

10	31° 4'20.61"N	76°35'23.95"E
11	31° 4'21.16"N	76°35'24.45"E
12	31° 4'20.76"N	76°35'24.73"E
13	31° 4'20.05"N	76°35'24.35"E
14	31° 4'20.61"N	76°35'19.78"E
15	31° 4'21.07"N	76°35'18.18"E
16	31° 4'22.82"N	76°35'18.94"E
17	31° 4'22.81"N	76°35'19.32"E
18	31° 4'22.03"N	76°35'19.41"E
19	31° 4'22.69"N	76°35'19.93"E
20	31° 4'23.24"N	76°35'19.94"E
21	31° 4'23.23"N	76°35'21.19"E
PIT-II		
1	31° 4'17.69"N	76°35'17.87"E
2	31° 4'17.65"N	76°35'21.22"E
3	31° 4'14.50"N	76°35'21.16"E
4	31° 4'14.51"N	76°35'20.16"E
5	31° 4'8.24"N	76°35'20.05"E
6	31° 4'7.12"N	76°35'23.15"E
7	31° 4'4.62"N	76°35'22.09"E
8	31° 4'4.71"N	76°35'19.17"E
9	31° 4'5.59"N	76°35'19.18"E
10	31° 4'5.63"N	76°35'16.47"E

	11	31° 4'6.12"N	76°35'16.47"E
	12	31° 4'6.08"N	76°35'19.19"E
	13	31° 4'8.26"N	76°35'19.23"E
	14	31° 4'8.11"N	76°35'17.70"E
	15	31° 4'6.54"N	76°35'17.68"E
	16	31° 4'6.55"N	76°35'16.48"E
	17	31° 4'8.13"N	76°35'16.63"E
f.	Details of cluster formation		Not applicable
g.	Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)		NOC from land owner submitted.
h.	Whether demarcation/erection of boundary pillars on the site has been done.		Demarcation done on 01-02-2023. Copy of demarcation report submitted.
i.	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be		Forest and Wildlife Clearance not applicable. Undertaking regarding same is submitted.
j.	Salient features of approved mining plans		Date of approval of mining plan-17-02-2023 Total approved quantity: 41032 Ton
k.	Method of mining		Semi-mechanized
l.	No. of workers on the site when fully operational		23
m.	Total water requirement for domestic and other usage and its source		3.70 KLD (Domestic-1.60KLD, Dust suppression-2.10KLD); Source of water supply: Tankers
n.	Waste water generation and its disposal		Approx.1.28KLD waste water will be generated which will be treated in proposed septic tank, overflow of which will be used for green area
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.		No. of Truck/Trollies per day: 8 Detailed proforma along with map is attached in the ADS reply.
p.	Activities to be undertaken under EMP along with its cost.		EMP details are as below:

		S. No.	Description	Total Cost to be Incurred (in Rs)
		1	Water Sprinkling Measures	50,000
		2	Haul Road and other Roads Repair	50,000
		3	Greenbelt Development (with tree guards)	50,000
		4	CER/CSR	60,000
			TOTAL	2,10,000
q.	Whether any Litigation is pending against the proposed mining site, if yes, the details, thereof, be provided.	No litigation is pending against the project. No litigation undertaking has been submitted.		

i)	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	None tree to be felled.
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 10 m. The same has been incorporated in the KML file and will be presented before the committee
ii)	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Distance from Minor Bridge 10 m towards East. Distance from Major Bridge 4.60km Towards North. The same has been incorporated in the KML file and will be presented before the committee.
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.	Distance from the nearest mining site ADB Rail 15.13Km towards South East. The same has been incorporated in the KML file and will be presented before the committee.

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 submitted.																	
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:	<table border="1"> <thead> <tr> <th data-bbox="813 512 902 627">S.No.</th> <th data-bbox="902 512 1252 627">Proposed Activities</th> <th data-bbox="1252 512 1377 627">Capital Cost (in Rs.)</th> </tr> </thead> <tbody> <tr> <td data-bbox="813 627 902 705">1</td> <td data-bbox="902 627 1252 705">Environmental Awareness Programmes</td> <td data-bbox="1252 627 1377 705">10,000</td> </tr> <tr> <td data-bbox="813 705 902 783">2</td> <td data-bbox="902 705 1252 783">Solar lights installation in village-Aalowal (5 No.)</td> <td data-bbox="1252 705 1377 783">20,000</td> </tr> <tr> <td data-bbox="813 783 902 898">3</td> <td data-bbox="902 783 1252 898">Construction of RWH pit at Government Primary School, Aalowal</td> <td data-bbox="1252 783 1377 898">30,000</td> </tr> <tr> <td colspan="2" data-bbox="813 898 1252 942">Total</td> <td data-bbox="1252 898 1377 942">60,000</td> </tr> </tbody> </table>			S.No.	Proposed Activities	Capital Cost (in Rs.)	1	Environmental Awareness Programmes	10,000	2	Solar lights installation in village-Aalowal (5 No.)	20,000	3	Construction of RWH pit at Government Primary School, Aalowal	30,000	Total		60,000
S.No.	Proposed Activities	Capital Cost (in Rs.)																	
1	Environmental Awareness Programmes	10,000																	
2	Solar lights installation in village-Aalowal (5 No.)	20,000																	
3	Construction of RWH pit at Government Primary School, Aalowal	30,000																	
Total		60,000																	

During meeting, the Committee perused the NOCs submitted by the land owners for carrying out mining at the proposed site was not attested by the Notary Public. The Department was asked to get the NOC (Affidavit) attested by the Notary Public. The Department assured to submit the same.

The Committee further observed that the proposed mining site is situated at a distance of 10 m from the habitation area. The Committee apprised the Department that as per the Sustainable Sand Mining Guidelines, 2016, the mining cannot be allowed at a distance of less than 60 m from any civil structure/habitation area. In this regard, the Department apprised the Committee that the land area near to the civil structure/habitation will not be considered for carrying out mining and assured to submit the revised proposal by excluding the land area near to the civil structure/habitation.

The Committee further observed that in the Environment Management Plan (EMP), the priority will be given to the activities such as water sprinkling on the haulage/link road to mitigate the dust emissions, construction of temporary toilets and septic tank for the workers, solid waste management, green belt development etc. The Committee asked the Department to revise the EMP accordingly.

The Committee perused the transportation route map for transportation of the excavated material from the mining site and observed that the Department has not submitted the details

of the length of metalled & unmetalled (katcha) road along with the width of the road. The Department assured to submit the same.

After detailed deliberations, the Committee decided to defer the case till the receipt of reply of the below mentioned observations:

- (i) The Department shall submit the copy of the NOC (Affidavit) of the land, duly attested by the Notary Public.
- (ii) The Department shall submit the revised details of the land area bearing khasra no. for the proposed mining site by excluding the land area near to the civil structure/habitation. Upon revision of the proposed land area for mining, the Department shall submit the revised KML file showing the distance of the civil structure from the proposed mining site.
- (iii) The Department shall submit the revised EMP by including activities such as water sprinkling on the haulage/link road to mitigate the dust emissions, construction of temporary toilets and septic tank for the workers, solid waste management, green belt development etc.
- (iv) The Department shall submit the details of the length of metalled & unmetalled (katcha) road along with their width, proposed to be used for transporting the excavated material from the mining site.
- (v) The Department shall submit the photographs of the site duly indicating demarcation with boundary pillars and submit DGPS Map showing the coordinates of each corner of the site.

Item No. 244.02: Regarding applications for Environmental Clearance for carrying out mining of minor minerals (sand) by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar Division.

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar 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- Majari Tehsil & Distt. Rupnagar (SIA/PB/MIN/421105/2023).

The Department has deposited requisite fee of Rs. 9960/-vide reference no. CMS/001161290230/SEIAA603 dated 06.03.2023 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/Majari/307 dated 1.2.2023. The approval under FCA or NBWL is not applicable.

Deliberations during 243rd meeting of SEAC held on 03.04.2023.

The meeting was attended by the following:

- (iii) Mr. Rupinder Singh, Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar Division, Rupnagar.
- (iv) Mr. Sandeep Garg, Environmental Consultant M/s Eco Laboratories Pvt Ltd.

The Committee allowed the Department & Environmental Consultant to present the salient features of the application proposals. Thereafter, the Environmental Consultant present the cases as under:

Location of the site	Area (ha.)	Quantity proposed (TPA)	Area of the Mining Lease (ha.)	Quantity from lease area (TPA)	Whether Site falls in any cluster, if yes (code/area)	Area of the leased-out area (ha.)	Quantity Leased (MT)
Village-Majari, Tehsil Nangal, District- Rupnagar	10.15	124438.9	4.98	38871	It is merged as one site.	Nil	Nil

The Committee perused the application proposal of Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar Division for carrying out mining of minor minerals (sand) at the aforementioned mining sites. The Committee observed that the mandatory information required to appraise the applications are missing and there are certain shortcomings in the application proposals which needs to be rectified/provided.

After detailed deliberations, SEAC informed the proponent about these shortcomings in the proposal and decided to defer all the cases, till the receipt of the reply to the following observations made during the meeting.

- (i) The Department shall submit the synopsis/summary in an annotated form pertaining to the following mandatory information for each of the mining sites:
 - a) Category of the Project as per the EIA notification dated 14.09.2006.
 - b) Hadbast No. of the Village
 - c) Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal
 - 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.
 - e) Longitude & Latitude of the mining site.
 - f) Details of cluster formation
 - g) Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)
 - h) Whether demarcation/erection of boundary pillars on the site has been done.
 - i) Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be.
 - j) Salient features of approved mining plans
 - k) Method of mining
 - l) No. of workers on the site when fully operational
 - m) Total water requirement for domestic and other usage and its source
 - n) Waste water generation and its disposal
 - o) 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.
 - p) Activities to be undertaken under EMP along with its cost.
 - q) Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.
- (ii) The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.
- (iii) 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.

- (iv) The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.
- (v) 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.
- (vi) 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
- (vii) 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:
 - a. Developing mini forests (Nanak Bagichi), urban forests, green belts, biodiversity parks etc., raising of avenue plantations and plantations in public/community areas/ educational institutions/Govt. buildings/banks of rivers/cantonment areas or any other land made available by the Govt. agencies and other institutions either by the Project Proponent itself or through the State Forest Department.
 - b. Cleaning and rejuvenating village ponds, water bodies, wetlands, storm drains etc. (treatment of village sewer pond using PPCB and other approved scientific models), such as: (i) Action Plan for Rejuvenation of Ponds (<https://ppcb.punjab.gov.in/sites/default/files/documents/Action-Plan-forRejuvenation-of-Ponds-31.03.20.pdf>) (ii) Guidelines for restoration of Water Bodies (<https://ppcb.punjab.gov.in/sites/default/files/documents/Indicative%20Guidelines%20for%20Restoration%20of%20Water%20Bodies%20by%20CPCB.pdf>), and (iii) Technical Committee Report on wastewater treatment (<https://ppcb.punjab.gov.in/sites/default/files/documents/Report%20of%20Technical%20Committee%20For%20Treatment%20of%20wastewater%20of%20Village%20Pond.pdf>)
 - c. Developing infrastructure for (i) Utilizing treated effluent of STPs (double plumbing, construction work roadside sprinkling (ii) Reusing STP/ETP sludge as farmyard manure (FYM) or 'other activities approved by CPCB/PPCB/MoEF&CC, and (iii) Replacing soakage pits and/or providing septic tanks in government education institutions and other government buildings/projects.
 - d. Provisioning solar panels/lights and other energy saving electric devices/equipment's including LED bulbs etc. in the government/municipal/other public schools, hospitals and dispensaries etc. or in other public buildings.
 - e. Provisioning Roof top rainwater harvesting (RWH) and other water/groundwater conservations activities in the government/ municipal/ other public schools, hospitals and dispensaries etc. or in other public buildings.
 - f. Provisioning Solid waste management including composting/vermi-composting, authorized approaches of reuse & recycle, Material Recovery Facility (MRF) to reach zero waste condition, etc.
 - g. Developing and establishing alternatives to the single use plastic (SUP) and plastic carry bags.
 - h. Ameliorating air, water, soil & noise pollution as prescribed in the applicable District Environment Plan (DEP) <https://decc.punjab.gov.in/> where gaps exist and which are not the statutory responsibility of government departments / agencies, including need based environmental activities as proposed by the project proponent/their accredited consultants based on site-specific field surveys of the project and nearby areas and approved by SEIAA/SEAC/PPCB.

- i. Preparing Peoples Biodiversity Register (PBR) at all levels (District, block & village) and conserving state's biodiversity heritage sites (BHS), Eco zones, Hotspots, Wildlife & bird sanctuaries, etc.
- j. Organizing environmental awareness activities/celebrations/programmes, preparing and distributing resource material for abatement and control of pollution and restoration of environment of Punjab and approved by SEIAA/SEAC/PPCB/academic experts.
- k. Suppressing dust by using vacuum cleaners, sprinklers, fountains, misting machines/vehicles/artificial rain etc.
- l. Managing waste in scientific and environmentally sound manner including establishment of recovery facilities of e-waste, construction and demolition waste, plastic waste, toxic/hazardous waste, bio-medical waste, industrial wastes, dairy/Gaushala waste etc.
- m. Promoting and developing eco-tourism areas/activities, green buildings, agriculture diversity, organic/natural farming/herbal/medicinal/botanical gardens, electric vehicles, cleaner fuels, biodegradable materials, etc.
- n. Controlling and managing (In-situ/Ex-situ) stubble burning (Parali) in Punjab.
- o. Developing clean and innovative technologies for reducing water, air and solid waste pollutants including reuse and recycling of resource materials.
- p. Restoration of damage to link road/village road due to mining activity.

Deliberations during 244th meeting of SEAC held on 17.04.2023.

The meeting was attended by the following:

- (i) Mr. Rajat Grover, District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar & Anandpur.
- (ii) Mr. Sandeep Garg, Environmental Consultant M/s Eco Laboratories Pvt Ltd.

SEAC allowed the Department & Environmental Consultant to present the ADS reply of the observations raised by SEAC in its 243rd meeting of SEAC held on 03.04.2023. Thereafter, the Environmental Consultant presented the salient features as under:

1. Brief Summary of the Sand Mining Project MAJARI (Distt. Rupnagar)

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	Rupinder Singh Pabla XEN/DMO, Drainage-cum-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. 9814003103, 0172461622 md@ecoparyavaran.org
iii)	Online Proposal No.	SIA/PB/MIN/421105/2023

iv)	Project Name & Location	RBM Mining Project Village-Majari, Tehsil-Nangal District- Rupnagar (Punjab) by XEN/DMO District: Rupnagar, Government of Punjab
v)	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	1(a) Mining of Minor Minerals

2. Details of the mining project as required by SEAC during meeting held on 03.04.2023

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	266																																				
c.	Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal	41(70-2), 39R/19/3(6-0), 39R/20(8-0), 39R/21(8-0), 39R/22(8-0)																																				
d.	(i) Area of mining site and area as per DSR (ii) Depth up to which sand shall be extracted	(i) 4.98 Ha and 10.15 Ha (ii) 2.5 m																																				
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																																				
e.	Longitude & Latitude of the mining site	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3">PIT 1</th> </tr> <tr> <th>Pillar No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>31°17'21.68"N</td> <td>76°18'37.64"E</td> </tr> <tr> <td>2</td> <td>31°17'25.06"N</td> <td>76°18'45.43"E</td> </tr> <tr> <td>3</td> <td>31°17'23.38"N</td> <td>76°18'47.39"E</td> </tr> <tr> <td>4</td> <td>31°17'22.51"N</td> <td>76°18'46.37"E</td> </tr> <tr> <td>5</td> <td>31°17'21.99"N</td> <td>76°18'46.89"E</td> </tr> <tr> <td>6</td> <td>31°17'22.26"N</td> <td>76°18'47.15"E</td> </tr> <tr> <td>7</td> <td>31°17'20.69"N</td> <td>76°18'49.02"E</td> </tr> <tr> <td>8</td> <td>31°17'19.64"N</td> <td>76°18'47.97"E</td> </tr> <tr> <td>9</td> <td>31°17'18.74"N</td> <td>76°18'40.85"E</td> </tr> <tr> <th colspan="3">PIT-II</th> </tr> </tbody> </table>	PIT 1			Pillar No.	Latitude	Longitude	1	31°17'21.68"N	76°18'37.64"E	2	31°17'25.06"N	76°18'45.43"E	3	31°17'23.38"N	76°18'47.39"E	4	31°17'22.51"N	76°18'46.37"E	5	31°17'21.99"N	76°18'46.89"E	6	31°17'22.26"N	76°18'47.15"E	7	31°17'20.69"N	76°18'49.02"E	8	31°17'19.64"N	76°18'47.97"E	9	31°17'18.74"N	76°18'40.85"E	PIT-II		
PIT 1																																						
Pillar No.	Latitude	Longitude																																				
1	31°17'21.68"N	76°18'37.64"E																																				
2	31°17'25.06"N	76°18'45.43"E																																				
3	31°17'23.38"N	76°18'47.39"E																																				
4	31°17'22.51"N	76°18'46.37"E																																				
5	31°17'21.99"N	76°18'46.89"E																																				
6	31°17'22.26"N	76°18'47.15"E																																				
7	31°17'20.69"N	76°18'49.02"E																																				
8	31°17'19.64"N	76°18'47.97"E																																				
9	31°17'18.74"N	76°18'40.85"E																																				
PIT-II																																						

		1	31°17'21.85"N	76°18'57.82"E	
		2	31°17'21.86"N	76°19'2.78"E	
		3	31°17'17.96"N	76°19'2.69"E	
		4	31°17'17.96"N	76°18'57.67"E	
f.	Details of cluster formation		Not applicable		
g.	Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)		Land NOC attested through Notary is submitted.		
h.	Whether demarcation/erection of boundary pillars on the site has been done.		Demarcation has been done. Copy of demarcation report submitted.		
i.	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be		Forest and Wildlife Clearance not applicable. Undertaking regarding same is submitted.		
j.	Salient features of approved mining plans		Date of approval of mining plan: 01-02-2023 Total approved quantity: 93278 Tonne		
k.	Method of mining		Semi-mechanized		
l.	No. of workers on the site when fully operational		23		
m.	Total water requirement for domestic and other usage and its source		3.1 KLD (Domestic - 1 KLD, Dust suppression - 2.10); Source of water supply: Tankers		
n.	Waste water generation and its disposal		Approx. 0.8 KLD of domestic waste water will be generated which will be treated in proposed septic tank, overflow of which will be used for green area.		
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.		No. of Truck/Trollies per day: 14 Detailed proforma along with 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. Undertaking submitted.		
C) Additional Details required by SEAC during meeting held on 03.04.2023					

i)	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	No tree to be felled
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 50m which is as per guideline. The same has been incorporated in the KML file and will be presented before the committee.
ii)	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Distance from Minor Bridge approx. 9 km Distance from Major Bridge- NA
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.	Distance from the nearest mining site 550 meters NangraKalmot
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 submitted.
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 suggested additional environmental activities may be undertaken as a part of EMP	Submitted.

During meeting, the Committee perused the Khasra no. of the proposed mining site and observed that these are also given in the approved DSR of Roopnagar, NOC of the land owner and approved mining plan.

During perusal of ADS reply submitted by the Department, the Committee observed that the distance of the proposed mining site is 50 m from nearest habitation, whereas, as per the Sustainable Sand Mining Guidelines, 2016, the mining cannot be allowed at a distance of less than 60 m from any civil structure. In this regard, the Department apprised the Committee that

the distance of 50 m has been mentioned inadvertently, however, the mining site is actually located at a distance of 78 m from the nearest habitation. A copy of the KML file showing the distance from the habitation area also submitted by the Department.

The Committee further observed that in the Environment Management Plan (EMP), the priority will be given to the activities such as water sprinkling on the haulage/link road to mitigate the dust emissions, construction of temporary toilets and septic tank for the workers, solid waste management, green belt development etc. The Committee asked the Department to revise the EMP accordingly. The Department submitted the revised EMP with details as under:

Sr. No.	Description	Total Cost to be incurred (in Rs.)
1.	Water sprinkling measures to be done on haul road to suppress dust	1,15,000/-
2.	Haul Road and other Roads Repair	1,80,000/-
3.	Green belt development (with tree guards)	2,49,000/-
4.	Septic tank & Mobile toilets and Solid waste management	65,000/-
	Total	6,00,900/-

After detailed deliberations, the Committee observed that the project site is complying with the SSMG 2016 and EMGSM 2020 and decided to forward the case to SEIAA with the recommendation to grant Environmental Clearance for carrying out mining of minor minerals (sand) as per the approved mining plan in the land area of 4.98 Ha at Village-Majari, Tehsil-Nangal, District- Rupnagar subject to the conditions attached as **Annexure-I**.

Item No. 244.03: Regarding applications for Environmental Clearance for carrying out mining of minor minerals (sand) by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar Division.

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar 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-Malewal; Tehsil Distt. Rupnagar (SIA/PB/MIN/421294/2023).

The Department has deposited requisite fee of Rs. 9480/-vide reference no. CMS/001161290235 dated 06.03.2023 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/Malewal/342 dated 3.2.2023. The approval under FCA or NBWL is not applicable.

Deliberations during 243rd meeting of SEAC held on 03.04.2023.

The meeting was attended by the following:

- (v) Mr. Rupinder Singh, Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar Division, Rupnagar.
- (vi) Mr. Sandeep Garg, Environmental Consultant M/s Eco Laboratories Pvt Ltd.

The Committee allowed the Department & Environmental Consultant to present the salient features of the application proposals. Thereafter, the Environmental Consultant present the cases as under:

Location of the site	Area (ha.)	Quantity proposed (MT)	Area of the Mining Lease (ha.)	Quantity from lease area (TPA)	Whether Site falls in any cluster, if yes (code/area)	Area of the leased-out area (ha.)	Quantity Leased (MT)
Village-Malewal, Tehsil Shri Chamkaur Sahib & District Rupnagar.	4.23	44863.31	4.74	52554	No	Nil	Nil

The Committee perused the application proposals of Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar Division for carrying out mining of minor minerals (sand) at the aforementioned mining sites. The Committee observed that the mandatory information required to appraise the applications are missing and there are certain shortcomings in the application proposals which needs to be rectified/provided.

After detailed deliberations, SEAC informed the proponent about these shortcomings in the proposal and decided to defer all the cases, till the receipt of the reply to the following observations made during the meeting.

- (i) The Department shall submit the synopsis/summary in an annotated form pertaining to the following mandatory information for each of the mining sites:
 - a) Category of the Project as per the EIA notification dated 14.09.2006.
 - b) Hadbast No. of the Village
 - c) Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal
 - 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.
 - e) Longitude & Latitude of the mining site.
 - f) Details of cluster formation
 - g) Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)
 - h) Whether demarcation/erection of boundary pillars on the site has been done.
 - i) Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be.
 - j) Salient features of approved mining plans
 - k) Method of mining
 - l) No. of workers on the site when fully operational
 - m) Total water requirement for domestic and other usage and its source
 - n) Waste water generation and its disposal
 - 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.
 - p) Activities to be undertaken under EMP along with its cost.
 - q) Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.
- (ii) The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.
- (iii) 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.

- (iv) The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.
- (v) 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.
- (vi) 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
- (vii) 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:
 - a. Developing mini forests (Nanak Bagichi), urban forests, green belts, biodiversity parks etc., raising of avenue plantations and plantations in public/community areas/ educational institutions/Govt. buildings/banks of rivers/cantonment areas or any other land made available by the Govt. agencies and other institutions either by the Project Proponent itself or through the State Forest Department.
 - b. Cleaning and rejuvenating village ponds, water bodies, wetlands, storm drains etc. (treatment of village sewer pond using PPCB and other approved scientific models), such as: (i) Action Plan for Rejuvenation of Ponds (<https://ppcb.punjab.gov.in/sites/default/files/documents/Action-Plan-forRejuvenation-of-Ponds-31.03.20.pdf>) (ii) Guidelines for restoration of Water Bodies (<https://ppcb.punjab.gov.in/sites/default/files/documents/Indicative%20Guidelines%20for%20Restoration%20of%20Water%20Bodies%20by%20CPCB.pdf>), and (iii) Technical Committee Report on wastewater treatment (<https://ppcb.punjab.gov.in/sites/default/files/documents/Report%20of%20Technical%20Committee%20For%20Treatment%20of%20wastewater%20of%20Village%20Pond.pdf>)
 - c. Developing infrastructure for (i) Utilizing treated effluent of STPs (double plumbing, construction work roadside sprinkling (ii) Reusing STP/ETP sludge as farmyard manure (FYM) or 'other activities approved by CPCB/PPCB/MoEF&CC, and (iii) Replacing soakage pits and/or providing septic tanks in government education institutions and other government buildings/projects.
 - d. Provisioning solar panels/lights and other energy saving electric devices/equipment's including LED bulbs etc. in the government/municipal/other public schools, hospitals and dispensaries etc. or in other public buildings.
 - e. Provisioning Roof top rainwater harvesting (RWH) and other water/groundwater conservations activities in the government/ municipal/ other public schools, hospitals and dispensaries etc. or in other public buildings.
 - f. Provisioning Solid waste management including composting/vermi-composting, authorized approaches of reuse & recycle, Material Recovery Facility (MRF) to reach zero waste condition, etc.
 - g. Developing and establishing alternatives to the single use plastic (SUP) and plastic carry bags.
 - h. Ameliorating air, water, soil & noise pollution as prescribed in the applicable District Environment Plan (DEP) <https://decc.punjab.gov.in/> where gaps exist and which are not the statutory responsibility of government departments / agencies, including need based environmental activities as proposed by the project proponent/their accredited consultants based on site-specific field surveys of the project and nearby areas and approved by SEIAA/SEAC/PPCB.
 - i. Preparing Peoples Biodiversity Register (PBR) at all levels (District, block & village) and conserving state's biodiversity heritage sites (BHS), Eco zones, Hotspots, Wildlife & bird sanctuaries, etc.

- j. Organizing environmental awareness activities/celebrations/programmes, preparing and distributing resource material for abatement and control of pollution and restoration of environment of Punjab and approved by SEIAA/SEAC/PPCB/academic experts.
- k. Suppressing dust by using vacuum cleaners, sprinklers, fountains, misting machines/vehicles/artificial rain etc.
- l. Managing waste in scientific and environmentally sound manner including establishment of recovery facilities of e-waste, construction and demolition waste, plastic waste, toxic/hazardous waste, bio-medical waste, industrial wastes, dairy/Gaushala waste etc.
- m. Promoting and developing eco-tourism areas/activities, green buildings, agriculture diversity, organic/natural farming/herbal/medicinal/botanical gardens, electric vehicles, cleaner fuels, biodegradable materials, etc.
- n. Controlling and managing (In-situ/Ex-situ) stubble burning (Parali) in Punjab.
- o. Developing clean and innovative technologies for reducing water, air and solid waste pollutants including reuse and recycling of resource materials.
- p. Restoration of damage to link road/village road due to mining activity.

Deliberations during 244th meeting of SEAC held on 17.04.2023.

The meeting was attended by the following:

(iii) Mr. Rajat Grover, District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Rupnagar & Anandpur.

(iv) Mr. Sandeep Garg, Environmental Consultant M/s Eco Laboratories Pvt Ltd.

SEAC allowed the Department & Environmental Consultant to present the ADS reply of the observations raised by SEAC in its 243rd meeting of SEAC held on 03.04.2023. Thereafter, the Environmental Consultant presented the salient features of the mining site as under:

1. Brief Summary of the Sand Mining Project Malewal (Distt. Rupnagar)

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	Rupinder Singh Pabla XEN/DMO, Drainage-cum-mining and Geology Division, WRD, Punjab, Room No. 145, D.C. Complex, Mini Secretariat, Rupnagar, 9878688998
ii)	Name of Environmental Consultant Mobile No. Email ID	Eco Paryavaran Laboratories & Consultants Pvt. Ltd. 9814003103, 0172461622 md@ecoparyavaran.org
iii)	Online Proposal No.	SIA/PB/MIN/421294/2023
iv)	Project Name & Location	RBM Sand Mining Project Village: Malewal Tehsil- Shri Chamkaur Sahib

		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

2. 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	107																											
c.	Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal	107-20//19, 20, 21, 22, 107-21//6/1, 7, 14, 15, 16, 17, 25, 107-23//2,107-24//3, 4, 7, 108-53//6, 108-53//4, 5																											
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																											
d.1	Area details as per Mining plan and as per DSR	4.74 ha as per proposal and 4.23 ha as per DSR																											
e.	Longitude & Latitude of the mining site	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3">PIT 1</th> </tr> <tr> <th>Pillar No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30°57'38.18"N</td> <td>76°22'39.71"E</td> </tr> <tr> <td>2</td> <td>30°57'37.34"N</td> <td>76°22'42.84"E</td> </tr> <tr> <td>3</td> <td>30°57'36.45"N</td> <td>76°22'42.84"E</td> </tr> <tr> <td>4</td> <td>30°57'36.43"N</td> <td>76°22'44.22"E</td> </tr> <tr> <td>5</td> <td>30°57'34.47"N</td> <td>76°22'44.20"E</td> </tr> <tr> <td>6</td> <td>30°57'34.41"N</td> <td>76°22'49.24"E</td> </tr> <tr> <td>7</td> <td>30°57'29.32"N</td> <td>76°22'49.17"E</td> </tr> </tbody> </table>	PIT 1			Pillar No.	Latitude	Longitude	1	30°57'38.18"N	76°22'39.71"E	2	30°57'37.34"N	76°22'42.84"E	3	30°57'36.45"N	76°22'42.84"E	4	30°57'36.43"N	76°22'44.22"E	5	30°57'34.47"N	76°22'44.20"E	6	30°57'34.41"N	76°22'49.24"E	7	30°57'29.32"N	76°22'49.17"E
PIT 1																													
Pillar No.	Latitude	Longitude																											
1	30°57'38.18"N	76°22'39.71"E																											
2	30°57'37.34"N	76°22'42.84"E																											
3	30°57'36.45"N	76°22'42.84"E																											
4	30°57'36.43"N	76°22'44.22"E																											
5	30°57'34.47"N	76°22'44.20"E																											
6	30°57'34.41"N	76°22'49.24"E																											
7	30°57'29.32"N	76°22'49.17"E																											

		8	30°57'30.11"N	76°22'46.65"E	
		9	30°57'30.53"N	76°22'46.66"E	
		10	30°57'30.53"N	76°22'45.32"E	
		11	30°57'31.66"N	76°22'41.86"E	
		12	30°57'33.08"N	76°22'40.93"E	
		PIT-II			
		1	30°57'30.35"N	76°23'1.82"E	
		2	30°57'30.35"N	76°23'4.51"E	
		3	30°57'29.48"N	76°23'9.41"E	
		4	30°57'26.82"N	76°23'9.34"E	
		5	30°57'29.24"N	76°23'1.79"E	
f.	Details of cluster formation	No cluster is formed			
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 done on 24-12-2022. Copy of demarcation report submitted.			
i.	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be	No forest land is involved. Further, site does not fall in the eco-sensitive zone of wildlife sanctuary and conservation reserves.			
j.	Salient features of approved mining plans	Date of approval-	03-02-2023		
		Total Quantity-157662 tonnes			
k.	Method of mining	Semi-mechanized			
l.	No. of workers on the site when fully operational	28			
m.	Total water requirement for domestic and other usage and its source	Domestic: 1.3 KLD Dust Suppression: 1.4 KLD Total: 2.70 KLD			

n.	Waste water generation and its disposal	Approx. 1.04 KLD of domestic waste water will be generated which will be treated in proposed septic tank, overflow of which will be used for green area.		
o.	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.	20 Tractor trolleys per day Transportation route map submitted.		
p.	Activities to be undertaken under EMP along with its cost.	S. No.	Description	Total Cost to be Incurred (in Rs)
		1	Water Sprinkling Measures	50,000
		2	Haul Road and other Roads Repair	50,000
		3	Greenbelt Development (with tree guards)	63,500
		4	CER/CSR	2,36,500
			TOTAL	4,00,000
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		

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	Distance from nearest habitation is 1Km.

	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.																
ii)	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Distance from Minor Bridge 6.27 towards South East Distance from Major Bridge 10.86 km towards north east.															
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.	Distance from the nearest mining site ADB Rail 6.83 Km towards North-east.															
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 submitted.															
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:																
		<table border="1"> <thead> <tr> <th>S. No</th> <th>Proposed Activities</th> <th>Capital Cost (in Rs.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Environmental Awareness Programmes</td> <td>1,00,000</td> </tr> <tr> <td>2</td> <td>Solar lights installation in village-Aalawal (15 No.)</td> <td>80,000</td> </tr> <tr> <td>3</td> <td>Construction of RWH pit at Government Primary School, Aalawal</td> <td>56,500</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total</td> <td>2,36,500</td> </tr> </tbody> </table>	S. No	Proposed Activities	Capital Cost (in Rs.)	1	Environmental Awareness Programmes	1,00,000	2	Solar lights installation in village-Aalawal (15 No.)	80,000	3	Construction of RWH pit at Government Primary School, Aalawal	56,500	Total		2,36,500
		S. No	Proposed Activities	Capital Cost (in Rs.)													
		1	Environmental Awareness Programmes	1,00,000													
		2	Solar lights installation in village-Aalawal (15 No.)	80,000													
3	Construction of RWH pit at Government Primary School, Aalawal	56,500															
Total		2,36,500															

After detailed deliberations, SEAC decided to defer the case till the reply of the below mentioned observations.

- (i) The Department shall submit the copy of the NOC (Affidavit) of the land, duly attested by the Notary Public.
- (ii) The Department shall submit the revised details of the land area bearing khasra no. for the proposed mining site.
- (iii) The Department shall submit the revised EMP by including activities such as water sprinkling on the haulage/link road to mitigate the dust emissions, construction of temporary toilets and septic tank for the workers, solid waste management, green belt development etc.
- (iv) The Department shall submit the details of the length of metalled & unmetalled (katcha) road along with their width, proposed to be used for transporting the excavated material from the mining site.
- (v) The Department shall submit the photographs of the site duly indicating demarcation with boundary pillars and submit DGPS Map showing the coordinates of each corner of the site.

Item No. 244.04: Regarding applications for Environmental Clearance for carrying out mining of minor minerals (sand) by Executive Engineer cum District Mining Officer, drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana Division.

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana 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- Bhukhari Khurd and Dhananshu-2, Tehsil- Ludhiana East & Distt Ludhiana (SIA/PB/MIN/419779/2023).

The Department has deposited requisite fee of Rs. 7620/-vide reference no. 001157342814 dated 01.03.2023 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/ Bhukhari khurd & Dhananshu-2/339 dated 03.02.2023. The approval under FCA or NBWL is not applicable.

Deliberations during 243rd meeting of SEAC held on 03.04.2023.

The meeting was attended by the following:

- (i) Mr. Manjot, Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana Division, Ludhiana.
- (ii) Mr. Sandeep Garg, Environmental Consultant, M/s Eco Laboratories Pvt Ltd.

The Committee allowed the Department & Environmental Consultant to present the salient features of the application proposals. Thereafter, the Environmental Consultant presented the cases as under:

Location of the site	Area (ha.)	Quantity proposed (MT)	Area of the Mining Lease (ha.)	Quantity from lease area (TPA)	Whether Site falls in any cluster, if yes (code/area)	Area of the leased-out area (ha.)	Quantity Leased (MT)
Village- Bhukhari Khurd & Dhananshu-2, Tehsil- Ludhiana East, District- Ludhiana	3.81	104241.6	3.81	21767	No	Nil	Nil

The Committee perused the application proposals of Drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana Division for carrying out mining of minor minerals (sand) at the aforementioned mining sites. The Committee observed that the mandatory information required to appraise the applications are missing and there are certain shortcomings in the application proposals which needs to be rectified/provided.

After detailed deliberations, SEAC informed the proponent about these shortcomings in the proposal and decided to defer all the cases, till the receipt of the reply to the following observations made during the meeting.

- (i) The Department shall submit the synopsis/summary in an annotated form pertaining to the following mandatory information for each of the mining sites:
 - a) Category of the Project as per the EIA notification dated 14.09.2006.
 - b) Hadbast No. of the Village
 - c) Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal
 - 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.
 - e) Longitude & Latitude of the mining site.
 - f) Details of cluster formation
 - g) Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)
 - h) Whether demarcation/erection of boundary pillars on the site has been done.
 - i) Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be.
 - j) Salient features of approved mining plans
 - k) Method of mining
 - l) No. of workers on the site when fully operational
 - m) Total water requirement for domestic and other usage and its source
 - n) Waste water generation and its disposal
 - 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.
 - p) Activities to be undertaken under EMP along with its cost.
 - q) Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.
- (ii) The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.
- (iii) 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.

- (iv) The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.
- (v) 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.
- (vi) 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
- (vii) 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:
 - a. Developing mini forests (Nanak Bagichi), urban forests, green belts, biodiversity parks etc., raising of avenue plantations and plantations in public/community areas/ educational institutions/Govt. buildings/banks of rivers/cantonment areas or any other land made available by the Govt. agencies and other institutions either by the Project Proponent itself or through the State Forest Department.
 - b. Cleaning and rejuvenating village ponds, water bodies, wetlands, storm drains etc. (treatment of village sewer pond using PPCB and other approved scientific models), such as: (i) Action Plan for Rejuvenation of Ponds (<https://ppcb.punjab.gov.in/sites/default/files/documents/Action-Plan-forRejuvenation-of-Ponds-31.03.20.pdf>) (ii) Guidelines for restoration of Water Bodies (<https://ppcb.punjab.gov.in/sites/default/files/documents/Indicative%20Guidelines%20for%20Restoration%20of%20Water%20Bodies%20by%20CPCB.pdf>), and (iii) Technical Committee Report on wastewater treatment (<https://ppcb.punjab.gov.in/sites/default/files/documents/Report%20of%20Technical%20Committee%20For%20Treatment%20of%20wastewater%20of%20Village%20Pond.pdf>)
 - c. Developing infrastructure for (i) Utilizing treated effluent of STPs (double plumbing, construction work roadside sprinkling (ii) Reusing STP/ETP sludge as farmyard manure (FYM) or 'other activities approved by CPCB/PPCB/MoEF&CC, and (iii) Replacing soakage pits and/or providing septic tanks in government education institutions and other government buildings/projects.
 - d. Provisioning solar panels/lights and other energy saving electric devices/equipment's including LED bulbs etc. in the government/municipal/other public schools, hospitals and dispensaries etc. or in other public buildings.
 - e. Provisioning Roof top rainwater harvesting (RWH) and other water/groundwater conservations activities in the government/ municipal/ other public schools, hospitals and dispensaries etc. or in other public buildings.
 - f. Provisioning Solid waste management including composting/vermi-composting, authorized approaches of reuse & recycle, Material Recovery Facility (MRF) to reach zero waste condition, etc.
 - g. Developing and establishing alternatives to the single use plastic (SUP) and plastic carry bags.
 - h. Ameliorating air, water, soil & noise pollution as prescribed in the applicable District Environment Plan (DEP) <https://decc.punjab.gov.in/> where gaps exist and which are not the statutory responsibility of government departments / agencies, including need based environmental activities as proposed by the project proponent/their accredited consultants based on site-specific field surveys of the project and nearby areas and approved by SEIAA/SEAC/PPCB.
 - i. Preparing Peoples Biodiversity Register (PBR) at all levels (District, block & village) and conserving state's biodiversity heritage sites (BHS), Eco zones, Hotspots, Wildlife & bird sanctuaries, etc.

- j. Organizing environmental awareness activities/celebrations/programmes, preparing and distributing resource material for abatement and control of pollution and restoration of environment of Punjab and approved by SEIAA/SEAC/PPCB/academic experts.
- k. Suppressing dust by using vacuum cleaners, sprinklers, fountains, misting machines/vehicles/artificial rain etc.
- l. Managing waste in scientific and environmentally sound manner including establishment of recovery facilities of e-waste, construction and demolition waste, plastic waste, toxic/hazardous waste, bio-medical waste, industrial wastes, dairy/Gaushala waste etc.
- m. Promoting and developing eco-tourism areas/activities, green buildings, agriculture diversity, organic/natural farming/herbal/medicinal/botanical gardens, electric vehicles, cleaner fuels, biodegradable materials, etc.
- n. Controlling and managing (In-situ/Ex-situ) stubble burning (Parali) in Punjab.
- o. Developing clean and innovative technologies for reducing water, air and solid waste pollutants including reuse and recycling of resource materials.
- p. Restoration of damage to link road/village road due to mining activity.

Deliberations during 244th meeting of SEAC held on 17.04.2023.

The meeting was attended by the following:

- (i) Mr. Vishan Arora, Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana Division, Ludhiana.
- (ii) Mr. Sandeep Garg, Environmental Consultant, M/s Eco Laboratories Pvt Ltd.

SEAC allowed the Department & Environmental Consultant to present the ADS reply of the observations raised by SEAC in its 243rd meeting of SEAC held on 03.04.2023. Thereafter, the Environmental Consultant presented the salient features of the mining project at Village-Bhukhari Khurd & Dhananshu as under:

1. Brief Summary of the Sand Mining Project Bhukharikurd & Dhanashu

i)	Name of Applicant & Correspondence address: MobileNo:EmailID:	SANDEEP SINGH MANGAT XEN/DMO, Near Durga Mata Mandir, Urban Estate, Phase-1, Dugri, Ludhiana:7047900005 ee.drg.ldh@punjab.gov.in
ii)	Name of Environmental Consultant MobileNo. EmailID	Eco Laboratories & Consultants Pvt. Ltd.9814003103, 0172461622, consulteco@yahoo.com
iii)	Online Proposal No.	SIA/PB/MIN/419779/2023
iv)	Project Name & Location	RBM Mining Project Village-Bhukhari Khurd and Dhananshu- 2,Tehsil-Ludhiana East

		District- Ludhiana (Punjab) by XEN/DMO District: Ludhiana, Government of Punjab
v)	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	1(a) Mining of Minor Minerals

2. 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	185 & 186																																				
c.	Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal.	Bhukhari Khurd Khasra No. 12//12//12/2/3/2, 13/2/2, 17/2, 18, 19/1, 22/2, 23 24, 11//21, 12//14/2, 15/2, 16, 17/1, Dhananshu-2 Khasra No. 38//17/2, 18, 19, 20, 21/1, 22/1, 23/1, 24/3/1,																																				
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																																				
e.	(i) Area details as per proposal and DSR (ii) Depth up to which the sand is to be extracted	(i) 3.81 Ha as per proposal and DSR. (ii) 1.78 m																																				
f.	Longitude & Latitude of the mining site	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3">PIT-I</th> </tr> <tr> <th>Pillar No.</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30°56'17.78"N</td> <td>75°59'13.68"E</td> </tr> <tr> <td>2</td> <td>30°56'17.89"N</td> <td>75°59'21.47"E</td> </tr> <tr> <td>3</td> <td>30°56'14.69"N</td> <td>75°59'21.46"E</td> </tr> <tr> <td>4</td> <td>30°56'14.61"N</td> <td>75°59'13.75"E</td> </tr> <tr> <th colspan="3">PIT-II</th> </tr> <tr> <td>1</td> <td>30°56'6.76"N</td> <td>75°59'21.97"E</td> </tr> <tr> <td>2</td> <td>30°56'6.72"N</td> <td>75°59'30.37"E</td> </tr> <tr> <td>3</td> <td>30°56'2.79"N</td> <td>75°59'30.34"E</td> </tr> <tr> <td>4</td> <td>30°56'2.79"N</td> <td>75°59'29.90"E</td> </tr> <tr> <td>5</td> <td>30°56'4.76"N</td> <td>75°59'29.92"E</td> </tr> </tbody> </table>	PIT-I			Pillar No.	Latitude	Longitude	1	30°56'17.78"N	75°59'13.68"E	2	30°56'17.89"N	75°59'21.47"E	3	30°56'14.69"N	75°59'21.46"E	4	30°56'14.61"N	75°59'13.75"E	PIT-II			1	30°56'6.76"N	75°59'21.97"E	2	30°56'6.72"N	75°59'30.37"E	3	30°56'2.79"N	75°59'30.34"E	4	30°56'2.79"N	75°59'29.90"E	5	30°56'4.76"N	75°59'29.92"E
PIT-I																																						
Pillar No.	Latitude	Longitude																																				
1	30°56'17.78"N	75°59'13.68"E																																				
2	30°56'17.89"N	75°59'21.47"E																																				
3	30°56'14.69"N	75°59'21.46"E																																				
4	30°56'14.61"N	75°59'13.75"E																																				
PIT-II																																						
1	30°56'6.76"N	75°59'21.97"E																																				
2	30°56'6.72"N	75°59'30.37"E																																				
3	30°56'2.79"N	75°59'30.34"E																																				
4	30°56'2.79"N	75°59'29.90"E																																				
5	30°56'4.76"N	75°59'29.92"E																																				

		6	30°56'4.76"N	75°59'29.09"E	
		7	30°56'4.16"N	75°59'29.09"E	
		8	30°56'4.20"N	75°59'21.96"E	
g	Details of cluster formation			Not applicable	
h	Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)			Land NOC attested through notary submitted	
i	Whether demarcation/erection of boundary pillars on the site has been done.			Demarcation done on 06-12-2022. Copy of demarcation report submitted.	
j	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be			Forest and Wildlife Clearance not applicable. Undertaking regarding same is submitted.	
k	Salient features of approved mining plans			(i) Date of approval of mining plan-03-02-2023 (ii) Total approved quantity- 40245 tonnes	
l	Method of mining			Semi-mechanized	
m	No. of workers on the site when fully operational			15	
n	Total water requirement for domestic and other usage and its source			3.30KLD (Domestic-1.50KLD, Dust suppression-1.80KLD); Source of water supply: Tankers (
o	Waste water generation and its disposal			Approx. 1.2KLD waste water will be generated which will be treated in septic tank overflow of which will be used for green area.	
p	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.			No. of Truck/Trollies per day: 8 Detailed proforma along with map submitted.	
q	Activities to be undertaken under EMP along with its cost.			Submitted.	
r	Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.			No litigation is pending against the project. Undertaking has been submitted.	

i)	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	No tree to be felled.
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	Distance from nearest habitation is 0.59 km.

	in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.	
ii	The Department shall earmark, on the) KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Distance from Minor Bridge-0.37 km towards South East Distance from Major Bridge-6.93km towards North.
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.	Distance from the nearest mining site Koom Kalan 7.07 Km towards East.
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 submitted.
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:	Submitted

During meeting, the Committee perused the Khasra no. of the proposed mining site and observed that these are also given in the approved DSR of Roopnagar, NOC of the land owner and approved mining plan.

The Committee further observed that in the Environment Management Plan (EMP), the priority will be given to the activities such as water sprinkling on the haulage/link road to mitigate the dust emissions, construction of temporary toilets and septic tank for the workers, solid waste management, green belt development etc. The Committee asked the Department to revise the EMP accordingly. The Department submitted the revised EMP with details as under:

Sr. No.	Description	Total Cost to be incurred (In Rs.)
1.	Water sprinkling measures to be done on haul road to suppress dust	90,000/-
2.	Haul Road and other Roads Repair	1,00,000/-
3.	Green belt development (with tree guards)	1,90,500/-
4.	Septic tank & Mobile toilets and Solid waste management	65,000/-
	Total	4,45,500/-

After detailed deliberations, the Committee observed that the project site is complying with the SSMG 2016 and EMGSM 2020 and decided to forward the case to SEIAA with the recommendation to grant Environmental Clearance for carrying out mining of minor minerals (sand) as per the approved mining plan in the land area of 3.81 Ha at Village-Bhukhari Khurd and Dhananshu-2, Tehsil-Ludhiana East, District Ludhiana subject to the conditions attached as **Annexure-I**.

Item No. 244.05: Regarding applications for Environmental Clearance for carrying out mining of minor minerals (sand) by Executive Engineer cum District Mining Officer, drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana Division.

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana 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 following mining site of Village- Talwandi Kalan Tehsil & Distt Ludhiana (SIA/PB/MIN/421219/2023)

The Department has deposited requisite fee of Rs. 3600/-vide reference no. S78290387 dated 03.03.2023 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/Talwandi Kalan/481 dated 17.02.2023. The approval under FCA or NBWL is not applicable.

Deliberations during 243rd meeting of SEAC held on 03.04.2023.

The meeting was attended by the following:

- (iii) Mr. Manjot, Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana Division, Ludhiana.
- (iv) Mr. Sandeep Garg, Environmental Consultant, M/s Eco Laboratories Pvt Ltd.

The Committee allowed the Department & Environmental Consultant to present the salient features of the application proposals. Thereafter, the Environmental Consultant presented the cases as under:

Location of the site	Area (ha.)	Quantity proposed (MT)	Area of the Mining Lease (ha.)	Quantity from lease area (TPA)	Whether Site falls in any cluster, if yes (code/area)	Area of the leased-out area (ha.)	Quantity Leased (MT)
Village- Talwandi Kalan, District Ludhiana	1.11	31168.8	1.80	13338	No	Nil	Nil

The Committee perused the application proposals of Drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana Division for carrying out mining of minor minerals (sand) at the aforementioned mining sites. The Committee observed that the mandatory information required to appraise the applications are missing and there are certain shortcomings in the application proposals which needs to be rectified/provided.

After detailed deliberations, SEAC informed the proponent about these shortcomings in the proposal and decided to defer all the cases, till the receipt of the reply to the following observations made during the meeting.

(i) The Department shall submit the synopsis/summary in an annotated form pertaining to the following mandatory information for each of the mining sites:

- a) Category of the Project as per the EIA notification dated 14.09.2006.
- b) Hadbast No. of the Village
- c) Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal
- 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.
- e) Longitude & Latitude of the mining site.
- f) Details of cluster formation
- g) Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)
- h) Whether demarcation/erection of boundary pillars on the site has been done.
- i) Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be.
- j) Salient features of approved mining plans
- k) Method of mining
- l) No. of workers on the site when fully operational
- m) Total water requirement for domestic and other usage and its source
- n) Waste water generation and its disposal
- 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.
- p) Activities to be undertaken under EMP along with its cost.
- q) Whether any Litigation is pending against the proposed mining site, if yes the details, thereof, be provided.

(ii) The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.

- (iii) 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.
- (iv) The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.
- (v) 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.
- (vi) 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
- (vii) 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:
 - a. Developing mini forests (Nanak Bagichi), urban forests, green belts, biodiversity parks etc., raising of avenue plantations and plantations in public/community areas/ educational institutions/Govt. buildings/banks of rivers/cantonment areas or any other land made available by the Govt. agencies and other institutions either by the Project Proponent itself or through the State Forest Department.
 - b. Cleaning and rejuvenating village ponds, water bodies, wetlands, storm drains etc. (treatment of village sewer pond using PPCB and other approved scientific models), such as: (i) Action Plan for Rejuvenation of Ponds (<https://ppcb.punjab.gov.in/sites/default/files/documents/Action-Plan-forRejuvenation-of-Ponds-31.03.20.pdf>) (ii) Guidelines for restoration of Water Bodies (<https://ppcb.punjab.gov.in/sites/default/files/documents/Indicative%20Guidelines%20for%20Restoration%20of%20Water%20Bodies%20by%20CPCB.pdf>), and (iii) Technical Committee Report on wastewater treatment (<https://ppcb.punjab.gov.in/sites/default/files/documents/Report%20of%20Technical%20Committee%20For%20Treatment%20of%20wastewater%20of%20Village%20Pond.pdf>)
 - c. Developing infrastructure for (i) Utilizing treated effluent of STPs (double plumbing, construction work roadside sprinkling (ii) Reusing STP/ETP sludge as farmyard manure (FYM) or 'other activities approved by CPCB/PPCB/MoEF&CC, and (iii) Replacing soakage pits and/or providing septic tanks in government education institutions and other government buildings/projects.
 - d. Provisioning solar panels/lights and other energy saving electric devices/equipment's including LED bulbs etc. in the government/municipal/other public schools, hospitals and dispensaries etc. or in other public buildings.
 - e. Provisioning Roof top rainwater harvesting (RWH) and other water/groundwater conservations activities in the government/ municipal/ other public schools, hospitals and dispensaries etc. or in other public buildings.
 - f. Provisioning Solid waste management including composting/vermi-composting, authorized approaches of reuse & recycle, Material Recovery Facility (MRF) to reach zero waste condition, etc.
 - g. Developing and establishing alternatives to the single use plastic (SUP) and plastic carry bags.

- h. Ameliorating air, water, soil & noise pollution as prescribed in the applicable District Environment Plan (DEP) <https://decc.punjab.gov.in/> where gaps exist and which are not the statutory responsibility of government departments / agencies, including need based environmental activities as proposed by the project proponent/their accredited consultants based on site-specific field surveys of the project and nearby areas and approved by SEIAA/SEAC/PPCB.
- i. Preparing Peoples Biodiversity Register (PBR) at all levels (District, block & village) and conserving state's biodiversity heritage sites (BHS), Eco zones, Hotspots, Wildlife & bird sanctuaries, etc.
- j. Organizing environmental awareness activities/celebrations/programmes, preparing and distributing resource material for abatement and control of pollution and restoration of environment of Punjab and approved by SEIAA/SEAC/PPCB/academic experts.
- k. Suppressing dust by using vacuum cleaners, sprinklers, fountains, misting machines/vehicles/artificial rain etc.
- l. Managing waste in scientific and environmentally sound manner including establishment of recovery facilities of e-waste, construction and demolition waste, plastic waste, toxic/hazardous waste, bio-medical waste, industrial wastes, dairy/Gaushala waste etc.
- m. Promoting and developing eco-tourism areas/activities, green buildings, agriculture diversity, organic/natural farming/herbal/medicinal/botanical gardens, electric vehicles, cleaner fuels, biodegradable materials, etc.
- n. Controlling and managing (In-situ/Ex-situ) stubble burning (Parali) in Punjab.
- o. Developing clean and innovative technologies for reducing water, air and solid waste pollutants including reuse and recycling of resource materials.
- p. Restoration of damage to link road/village road due to mining activity.

Deliberations during 244th meeting of SEAC held on 17.04.2023.

The meeting was attended by the following:

- (i) Mr. Vishan Arora, Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana Division, Ludhiana.
- (ii) Mr. Sandeep Garg, Environmental Consultant, M/s Eco Laboratories Pvt Ltd.

SEAC allowed the Department & Environmental Consultant to present the ADS reply of the observations raised by SEAC in its 243rd meeting of SEAC held on 03.04.2023. Thereafter, the Environmental Consultant present the salient features of the mining project as under:

1. Brief Summary of the Sand Mining Project Talwandi Kalan

(A)General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	Sandeep Singh Mangat XEN/DMO, Drainage-cum-mining and Geology Division, WRD, Punjab, Near Durga Mata Mandir, Urban Estate, Phase-1, Dugri, Ludhiana:7047900005 ee.drg.ldh@punjab.gov.in
ii)	Name of Environmental Consultant Mobile No. Email ID	Eco Paryavaran Laboratories & Consultants Pvt. Ltd. 9814003103, 0172461622 md@ecoparyavaran.org
iii)	Online Proposal No.	SIA/PB/MIN/421219/2023
iv)	Project Name & Location	RBM Mining Project Village: Talwandi Kalan, Tehsil- Sidhwan Bet, District- Ludhiana, State Punjab
v)	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals

2. Details of the mining project as required by SEAC during meeting held on 03.04.2023

Sr. No.	Item	Details
a.	Category of the Project as per the EIA notification dated 14.09.2006	B2
b.	Hadbast No. of the Village	94
c.	Khasra No. of the proposed mining site as per DSR viz a viz Khasra no. of mining site as per proposal	41(70-2), 39R/19/3(6-0), 39R/20(8-0), 39R/21(8-0), 39R/22(8-0)
d (1)	Area of mining site and area as per DSR	1.8 Ha as per the proposal and 1.56 Ha as per the DSR.
d (2)	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
e	Longitude & Latitude of the mining site	
	PIT-I(PO_LD_LD2_ST_57)	
	Pillar No.	Pillar No.
	1	30°59'41.41"N
	2	30°59'41.30"N
		Pillar No.
		75°48'13.49"E
		75°48'21.35"E

	3	30°59'38.18"N	75°48'14.33"E
	PIT-II(PO_LD_LD2_ST_55)		
	1	30°59'43.21"N	75°48'29.89"E
	2	30°59'43.44"N	75°48'33.63"E
	3	30°59'39.99"N	75°48'29.47"E
	4	30°59'39.61"N	75°48'28.15"E
	5	30°59'41.35"N	75°48'28.77"E
	6	30°59'42.05"N	75°48'29.58"E
	PIT-III(PO_LD_LD2_ST_56)		
	1	30°59'37.76"N	75°48'20.52"E
	2	30°59'38.56"N	75°48'23.01"E
	3	30°59'38.13"N	75°48'24.16"E
	4	30°59'37.53"N	75°48'23.12"E
	5	30°59'37.22"N	75°48'21.87"E
	6	30°59'37.42"N	75°48'20.66"E
f.	Details of cluster formation		Not applicable
g.	Affidavit from the land owner giving consent for carrying out mining. (In case of Pvt land)		Land NOC is submitted as Annexure-2 of online application.
h.	Whether demarcation/erection of boundary pillars on the site has been done.		Demarcation done on 03-01-2023. Copy of demarcation report Submitted as Annexure-9 of online application.
i.	Status of clearance under Forest Conservation Act, 1980, Wildlife Protection Act 1972 as the case may be		Forest and Wildlife Clearance not applicable. Undertaking regarding same is submitted as Annexure-20 of online application.
j.	Salient features of approved mining plans		Date of approval of mining plan: 17-02-2023 Total approved quantity: 40014 Tonne
k.	Method of mining		Semi-mechanized
l.	No. of workers on the site when fully operational		15
m.	Total water requirement for domestic and other usage and its source		2.10 KLD (Domestic – 1.10 KLD, Dust suppression – 1 KLD); Source of water supply: Tankers
n.	Waste water generation and its disposal		Approx. 1.68 KLD of domestic waste water will be generated which will be treated in proposed septic tank, overflow of which will be used for green area.
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		No. of Truck/Trollies per day: 5 Detailed proforma along with map submitted

	proper earmarking of katcha, pakka road and ROW.																			
p.	Activities to be undertaken under EMP along with its cost.	<p>EMP details are as below:</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Description</th> <th>Total Cost to be Incurred (in Rs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Water Sprinkling Measures</td> <td>40,000</td> </tr> <tr> <td>2</td> <td>Haul Road and other Roads Repair</td> <td>40,000</td> </tr> <tr> <td>3</td> <td>Greenbelt Development (with tree guards)</td> <td>40,000</td> </tr> <tr> <td>4</td> <td>Additional Environmental responsibility/CER</td> <td>80,000</td> </tr> <tr> <td colspan="2">TOTAL</td> <td>2,00,000</td> </tr> </tbody> </table>	S.No.	Description	Total Cost to be Incurred (in Rs)	1	Water Sprinkling Measures	40,000	2	Haul Road and other Roads Repair	40,000	3	Greenbelt Development (with tree guards)	40,000	4	Additional Environmental responsibility/CER	80,000	TOTAL		2,00,000
S.No.	Description	Total Cost to be Incurred (in Rs)																		
1	Water Sprinkling Measures	40,000																		
2	Haul Road and other Roads Repair	40,000																		
3	Greenbelt Development (with tree guards)	40,000																		
4	Additional Environmental responsibility/CER	80,000																		
TOTAL		2,00,000																		
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. Undertaking submitted online as Annexure-20																		

i)	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	No tree to be felled
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 700m. The same has been incorporated in the KML file and will be presented before the committee.
ii)	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Distance from Major Bridge – 1 km The same has been incorporated in the KML file and will be presented before the committee.
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.	Distance from the nearest mining site – No mining site falls under 1 km radius. The same has been incorporated in the KML file and will be presented before the committee.
v)	The Department shall outline the environmental impact of the mining	The key impact areas for mining operations are: Air, land, water, noise etc. Impacts identified for

	operations carried out at site. The Department shall also mention the mitigation measures proposed for mitigating the environmental impacts	the said mining site along with the proposed mitigation measures submitted		
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 suggested additional environmental activities may be undertaken as a part of EMP	S.No.	Proposed Activities	Capital Cost (in Rs.)
		1	Environmental Awareness Programmes	10,000
		2	Solar lights installation in village Talwandi (3 No.)	45,000
		3	Construction of RWH pit at Government Elementary School Talwandi Kalan,	25,000
		Total		

During meeting, the Committee observed that the khasra No. mentioned in the ADS reply does not match with the khasra No. mentioned in the approved DSR of District Ludhiana and the NOC of the land. Further, as per the DSR of District Ludhiana, the total area approved for the mining site at village Talwandi Kalan is 1.11 acres, however, as per application proposal, the total area mentioned as 1.8 acres. The Committee observed that the same needs to be checked by the Department.

After detailed deliberations, SEAC decided to defer the case till the receipt of reply of the below mentioned observations:

- (i) The Department shall check the discrepancy of the total area proposed in the application i.e 1.8 acre with the total area mentioned in the approved DSR for the said site i.e 1.11 acre and submit the revised details of the land area with khasra no.
- (ii) The Department shall submit the copy of the NOC (Affidavit) of the land, duly attested by the Notary Public.
- (iii) The Department shall submit the revised details of the land area bearing khasra no. for the proposed mining site.
- (iv) The Department shall submit the revised EMP by including activities such as water sprinkling on the haulage/link road to mitigate the dust emissions, construction of temporary toilets and septic tank for the workers, solid waste management, green belt development etc.
- (v) The Department shall submit the details of the length of metalled & unmetalled (katcha) road along with their width, proposed to be used for transporting the excavated material from the mining site.

(vi) The Department shall submit the photographs of the site duly indicating demarcation with boundary pillars and submit DGPS Map showing the coordinates of each corner of the site.

Specific conditions:

- (i) The environmental clearance will be valid for a period of seven years from the date of issuance, as per the provisions of the EIA Notification, 2006 as amended subsequently, for mining of minor minerals in the above said locations and Khasra numbers as per the mining plan.
- (ii) 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.
- (iii) 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.
- (iv) Mining shall be carried out through semi- mechanized method as proposed in the mining plan.
- (v) 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.
- (vi) 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.
- (vii) The mining operation will be carried out only from sun-rise to sunset.
- (viii) 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.
- (ix) 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.
- (x) 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.
- (xi) 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.

- (xii) 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.
- (xiii) The project proponent and Mining officer shall ensure that wherever deployment of labour attracts the Mines Act, the provisions thereof shall be strictly followed.
- (xiv) The project proponent shall undertake plantation/afforestation work by planting native species in the nearby area/ adjacent to the mine lease.
- (xv) 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.
- (xvi) 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.
- (xvii) 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.
- (xviii) 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.
- (xix) 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.
- (xx) Adequate numbers (as proposed) of trees shall be planted, protected, maintained and established in vacant area in the village near the mining site.
- (xxi) 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.

- (xxii) 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.
- (xxiii) 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.
- (xxiv) A first aid room shall be provided in the project both during construction and operations of the project.
- (xxv) 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.
- (xxvi) 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.
- (xxvii) 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.
- (xxviii) 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 shall also be referred in this regard for its compliance.

- (xxix) 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.
- (xxx) 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.
- (xxxii) 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.
- (xxxiii) The risk assessment and disaster management plan should be prepared.
- (xxxiv) The project proponent shall submit the site plan showing the earmarked area for storage of mined material.
- (xxxv) 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.
- (xxxvi) The project proponent shall ensure the implementation of the post-closure mining plan as proposed by the project proponent in the Mining plan.
- (xxxvii) 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_x 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) & 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.
- (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.

