

Proceedings of the 247th meeting of the State Environment Impact Assessment Authority (SEIAA) held at 10.30 am on 28.04.2023 (Friday) in the Conference Hall No. 2, 1st Floor MGSIPA Complex, Sector-26, Chandigarh.

The meeting was attended by the following members:

1. Sh. H S Gujral,
Chairman, SEIAA
2. Dr. Adarsh Pal Vig, Member SEIAA -cum-
Chairman, Punjab Pollution Control Board, Patiala

Er Nikhil Gupta, Deputy Director, DECC along with other supporting staff of SEIAA also attended the meeting.

Item No. 01: Confirmation of the proceedings of the 245th and 246th meetings of the State Environment Impact Assessment Authority held on 06.04.2023 and 13.04.2023.

The proceedings of the 245th meeting of the State Environment Impact Assessment Authority held on 06.04.2023 were prepared and circulated through email on 21.04.2023 after obtaining comments from the members and uploaded on Parivesh Portal. Since no further comments were received, SEIAA decided to confirm the said proceedings. It was further informed that the proceedings of the 246th meeting were under finalisation and would be circulated at the earliest after incorporating the comments of the members. SEIAA noted the same.

Item No. 02: Action taken on the proceedings of 239th ,240th, 241st, 242nd, 243rd, 244th, 245th and 246th meetings of State Environment Impact Assessment Authority held on 01.03.2023, 02.03.2023, 16.03.2023, 24.03.2023, 31.03.2023, 05.04.2023, 06.04.2023 and 13.04.2023.

The Authority noted that the requisite action on its 8 previous meetings had not been completed which was a serious matter. It was therefore decided that the detailed action taken reports on the decisions in the above meetings be placed before the Authority as a separate Agenda item in the next meeting of SEIAA.

Item No. 247.01: 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- 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:

- (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 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 need 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) byXEN/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> </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 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 MT	
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/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.		No. of Truck/Trolleys 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	Submitted.

environmental activities may be undertaken as a part of EMP	
---	--

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**.

1.0 Deliberations of 247th meeting of SEIAA held on 28.04.2023

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.

It was observed that the DSR of Rupnagar District was approved by SEIAA vide letter no. SEIAA/MS/2022/1318 dated 27.12.2022. However, as per information received from the Mining Department during various meetings of SEAA, the levels recorded in the DSR are incorrect on account of calibration error in the equipment used for the surveys by the consultant. The Mining Department was therefore advised to re-submit the amended DSRs after incorporating the correct levels duly certified by the Chief Engineer Mining Department. However, despite reminders, the amended DSR has still not been submitted. In absence of amended DSR with correct levels of benchmarks / sandbars etc and its revised approval by SEIAA, it is not possible to consider the applications of the Mining Department for obtaining ECs in Rupnagar District. The situation is identical in respect of Pathankot District also. SEIAA therefore decided that EC applications in respect of Rupnagar and Pathankot Districts will only be considered after submission and approval of the amended DSRs of these Districts.

Notwithstanding the above and taking into consideration the fact that the officers of the Mining Department and Project Consultant were present and the case had been recommended for approval by SEAC, SEIAA decided to allow the Consultant to present the salient features of the Project so that SEIAA's further observations / requirements could be addressed by the project proponent parallelly with the submission of the amended DSR and so that these observations / requirements could be incorporated in the other EC applications under preparation by the Mining Department and their accredited consultants.

After presentation and deliberations thereon, the following observations were made and conveyed to the Mining Department:

1. EMP for all mining cases must include provision of plantation of 50 saplings per Ha. of the mining lease area @ Rs 1000 per sapling for plantation of saplings in the 1st year and Rs 1000 per sapling for subsequent maintenance for a period of 3 years (total Rs 2000 per sapling). As the Mining Department has elected to undertake this activity through the State Forest Department, an amount of Rs 1000 per sapling should be deposited in the Government Treasury under Budget head of "Greening Punjab Mission" prior to commencement of mining operations and a further amount of Rs 1000 per sapling one year thereafter for maintenance and upkeep of the plantations in the following Budget Head of Account:

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

Detailed Head	01- Green Punjab Mission Fees
---------------	-------------------------------

2. Besides the main EMP plan (which will include the aforementioned plantation @ 50 plants per Ha., Air quality amelioration, dust and Noise mitigation, sanitation / hygiene / health of workers, solid waste management and maintenance of roads etc), Additional Environmental Activities @ Rs 0.50 Per MT of total quantity of minor minerals to be extracted if mining is to be done manually and @ Rs 1.50 per MT in case mining is to be undertaken through semi-mechanised means must also be included in the EMP. As recommended by SEAC in its 243rd meeting held on 03.04.2023, the additional environmental can be selected by the Project Proponent from amongst the following:
- 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.

3. The EC application should be as per Checklist at Annexure B and should clearly mention the quantities of minor minerals already extracted from the Mining site in accordance with the conditional permission granted by SEIAA for 3 months. The already extracted quantity should be deducted from the quantity permitted as per the approved Mining Plan and balance quantity to be extracted should be specified in the EC application. A certificate in this regard, is also required to be furnished by the concerned District Mining Officer.

After detailed deliberations, SEIAA decided as under:

1. That the application of the project proponent shall be considered only after the amended DSR of Rupnagar District has been submitted and approved by SEIAA and after incorporation of the above observations / information desired by the Authority. As such, an ADS be raised to the project proponent through the Parivesh Portal to submit the above-mentioned information and incorporation in the EC application.
2. The aforementioned decisions be conveyed to the Mining Department and Member Secretary SEAC for information and requisite action.

Item No. 247.02: 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, 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	3.81	104241.6	3.81	21767	No	Nil	Nil

East, District- Ludhiana							
-----------------------------	--	--	--	--	--	--	--

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 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/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%20Gui>

delines%20for%20Restoration%20of%20
Water%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%20
wastewater %20of%20Village% 20Pond.pdf](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"> <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> </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		
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 in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.	Distance from nearest habitation is 0.59 km.
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.
i)	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.
v)	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 @	Submitted

	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:	
--	--	--

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 Ludhiana , 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**.

1.0 Deliberations of 247th meeting of SEIAA held on 28.04.2023

The meeting was attended by the following:

- (i) Mr. Harjinder Singh, District Mining Officer, and Sh. Manpreet Singh, SDO, Drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana Division, Ludhiana.
- (ii) Mr. Sandeep Garg, Environmental Consultant, M/s Eco Laboratories Pvt Ltd.

SEIAA allowed the Environmental Consultant of the project proponent to present the salient features of the project. The presentation submitted by the project proponent was taken on record by the SEIAA.

To a query by SEIAA, the District Mining Officer, Ludhiana informed that the mining sites located at village Bhukhri Khurd and Dhanansu-2, Tehsil Ludhiana East, District Ludhiana, were agricultural lands and the two sites together had an area of 3.81 Ha. Further, this was a “public mining site” (operated by the Mining Department itself) from which total of 11005.52 MT had been extracted till 27.04.2023. A certificate was also submitted by the DMO, Ludhiana in this regard. Mining Department further informed that as per policy, manual method of mining was being adopted by the Department for extraction of minor minerals in all Public Mining Sites. On the basis of this, SEIAA decided that the permission for only manual mining shall only be granted to the department in place of semi-mechanised mining as recommended by SEAC as well as the application of the project proponent.

To another query by SEIAA, Mining Department informed that the plantation of 190 saplings (@ 50 saplings / Ha of mining lease area) as recommended by SEAC would be undertaken by them through the State Forest Department. SEIAA observed that as per the EMP submitted by the Project Proponent and recommended by SEAC, an expenditure of Rs 1000 per sapling has been provided in the EMP for the plantation activity. However, no recurring cost for maintenance of the plantations has been provided in the proposed EMP which is essential for a period of 3 years to ensure survival of the saplings. As per standard norms being adopted by SEIAA / SEAC for all projects, total expenditure of Rs 2000 per sapling is required to be provided for in the EMP (Rs 1000 for plantation cost and Rs 1000 for subsequent maintenance for a period of 3 years). The EMP was, therefore, required to be revised accordingly.

SEIAA further observed that the project proponent has proposed to undertake additional environmental activities by incurring expenditure @Rs. 0.50/ ton of the total quantity permitted for mining. However, the project proponent has submitted a consolidated EMP by including the additional environmental activities. To these observations of SEIAA, the project proponent submitted the revised EMP with details as under:

TABLE 1

S No	Particulars	Total Cost (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	Plantation and maintenance of 190 saplings through State Forest Department under Greening Punjab Mission: a) Plantation cost 3.81Ha x 50 saplings / Ha = 190 saplings @ Rs 1000 per sapling (to be deposited prior to commencement of Mining operations): b) Upkeep and Maintenance cost for 3 years @ Rs 1000 per sapling (to be deposited one year after grant of EC):	1,90,500 1,90,500

	The above funds should be deposited in Government Treasury by the Project Proponent through the concerned DFO in "Greening Punjab Mission" Budget Head.	
4	Septic tank & Mobile toilets and Solid Waste Management	65,000
5.	Additional Environmental activities (Rs. 0.5 per MT of total quantity = 40245*0.5)	20,200
	TOTAL	6,56,200

SEIAA was satisfied with the presentation and the mitigation measures proposed to be adopted for reducing the environment impact caused due to the proposed project.

SEIAA further observed that the Hon'ble NGT vide its order dated 26-02-2021 passed in OA No 360 of 2015 has mandated that District Level Task Forces (DLTFs) are required to be constituted under the Chairmanship of the Deputy Commissioners to regularly monitor the sand / gravel mining activities and their transportation in their respective districts. As per directions of Hon'ble NGT, all operational sand mining sites are to be visited by the DLTFs regularly. It was therefore decided that a copy of the EC be sent to the DC Ludhiana with the request that the mining site be visited on regular basis by the DLTF which should also submit quarterly progress report in this regard to the DC with copy to SEIAA.

After detailed deliberations, SEIAA decided to accept the recommendations of SEAC and grant Environmental Clearance for carrying out mining of minor minerals (sand) at the mining site of Village- Bhukhari Khurd and Dhananshu-2, Tehsil- Ludhiana East, District Ludhiana as per the details mentioned in the application, EMP, and subsequent presentation /clarifications made by the project proponent and his consultant with proposed measures and subject to following conditions:

Specific conditions:

- i. EC shall be valid for a period of seven years from the date of issuance, as per the provisions of the EIA Notification, 2006 as amended from time to time, for mining of minor minerals in the locations and Khasra numbers as per the Mining Plan subject to the availability of minor minerals and validity period of the Mining Plan.
- ii. The project proponent shall demarcate the mining lease area in the presence of Lambardar (village headman), project proponent/ contractor, owner of the land and owner of the adjoining land, Revenue officer and 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 shall begin only after permanent pillars marking the boundary of lease area are erected at the cost of the lease holder and the same is duly certified by the Mining official and its geo-coordinates are made available to the District Level Task Force (DLTF).

- iv. Mining shall be carried out through manual method.
- v. The quantities of minor minerals already extracted in the window provided by SEIAA for commencing mining operations pending the grant of ECs shall be accounted for and included in the total quantity extracted vis-à-vis quantities permitted in the ECs.
- vi. Mining shall be undertaken strictly in accordance with the approved 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, approved DSR and other relevant Central and State, Acts/rules related with mining of minor minerals.
- vii. The mining activity shall be undertaken in accordance with 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.
- viii. Mining operations will be carried out only from sun-rise to sunset.
- ix. 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 in which monthly monitoring of the depth of the water table is to be recorded. District Mining Officer will monitor the same.
- x. 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.
- xi. The project proponent shall take all precautionary measures during mining operations for the conservation and protection of Schedule-I or Schedule-II species as per the Wildlife Protection Act 1972 (as amended from time to time) or rare and endangered flora & fauna, if any, 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 to SEIAA, Punjab.
- xii. The mining of minor mineral (sand) shall be carried out up to a maximum depth of 3m as per the approved Mining Plan or above the groundwater level, whichever is less.

- xiii. The project proponent shall ensure that no mining is carried out during the monsoon season as defined by the Meteorological Department.
- xiv. The project proponent and Mining officer shall ensure that wherever deployment of labour attracts the Mines Act 1952, the provisions thereof shall be strictly followed.
- xv. The project proponent shall deposit funds for Green Area development in the Greening Punjab Mission revenue head of the state treasury through the DFO prior to commencement of mining operations and thereafter 1 year after grant of EC as specified at S No. 3 of Table 1 in the following Budget Head:

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

- xvi. Project Proponent will undertake “Additional Environmental Activities” as specified at S No. 5 of Table 1 above. These “Additional Environmental Activities” should be chosen from those enlisted by SEAC in its 243rd meeting held on 03.04.2023 and the details thereof should be submitted to SEIAA within 30 days. The progress report regarding their implementation (including works done, expenditure incurred, photographs and short video clips) must be submitted regularly along with the 6-monthly compliance reports. Failure to deposit the funds in the Treasury under the Greening Punjab Mission Head of account prior to commencement of mining or to provide the details of the “Additional Environmental Activities” within 30 days may result in the EC being revoked without further notice.
- xvii. The project proponent shall undertake adequate safeguards so as to ensure that that the hydro-geological and ecological regimes of the surrounding area are not adversely affected on account of the mining operations.
- xviii. In case the mining site falls in a notified block declared by the CGWA, the project proponent shall obtain necessary prior permission for extraction of requisite quantity of water for domestic purposes from the District Advisory Committee (DAC) and only use treated waste water for dust suppression activities.

- xix. The project proponent shall take appropriate mitigation measures 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.
- xx. 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 at a safe distance from habitation areas and will not pass through any village. The transportation hours of mined material shall be restricted to non-peak daylight hours only.
- xxi. The mineral transportation shall be carried out through properly covered trucks. 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 designed load bearing capacity of the road. Adequate funds shall be provided in the budget for the proper maintenance of all the roads to be used for transportation.
- xxii. Vehicles hired for transportation of mined material shall be in good condition and shall conform to the applicable air and noise emission standards as provided in the Motor Vehicles Act, 1988.
- xxiii. The project proponent shall submit the site plan showing the earmarked area for storage of mined material.
- xxiv. No mining operation shall be carried out at any point within 75 meters of railway line, 60 meters from national highway, 50 meters from HT line/any public works/reservoirs, tanks/canal/public roads and buildings or inhabitations or 10 meters of outer edge of any village road. A safety barrier of 7.5 meters width shall be left intact all around the circumference of the mine lease boundary.
- xxv. The project proponent shall ensure the implementation of the post-closure mining plan as proposed in the Mining Plan.
- xxvi. The project proponent shall comply with the condition(s) imposed by the District Forest Officer (DFO) while granting No Objection Certificate.
- xxvii. 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.
- xxviii. As far as possible, the project proponent shall ensure that local labour is engaged for mining purpose so as to provide employment opportunities to them.
- xxix. The District Level Task Force (DLTF) constituted by the government of Punjab vide notifications dated 03.12.2012 shall regularly monitor the mining project including the status of compliance of EC conditions and submit quarterly reports to the State Government, SEIAA and the Deputy Commissioner.

Additional Conditions

- i. The quantities of minor minerals already extracted (if any) in the 3-month window provided for commencing mining operations pending the grant of ECs shall be accounted for and included in the total quantity extracted vis-à-vis quantities permitted in the ECs.
- ii. The project proponent shall, after ceasing mining operations, undertake re-grassing of the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- iii. The project proponent shall comply with all the conditions of the Mining Plan and the recommendations of the Sub-Divisional Committees in the approved DSR .

General Conditions:

- i. No change in mining technology and scope of working shall be made without prior approval of SEIAA, Punjab.
- ii. No change in the calendar plan including excavation, quantum of mineral sand/gravel (minor mineral) and waste shall be made without approval of the Competent Authority.
- iii. The project proponent shall obtain necessary prior permissions of the competent authorities/CGWA for extraction of requisite quantity of water (surface water and groundwater), if any, required for the project and shall also carry out periodic monitoring of groundwater [(at least four times in a year i.e. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January)); once in each season)] in consultation with the State Ground Water Board/Central Ground Water Authority (CGWA) and the data thus collected shall 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 undertaken forthwith.
- iv. The project proponent shall periodically monitor 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. 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 project proponent and also be put in the public domain via a display board at the project site at a suitable location near the main gate of the project. Circular No. J-20012/1/2006-IA. II(M) dated 27.05.2009 issued by MoEF&CC shall be referred to for compliance.

- v. 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 points and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall 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.
- vi. Four ambient air quality-monitoring stations shall 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 regular monitoring should be undertaken in consultation with the PPCB.
- vii. Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM) & NO_x shall 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.
- viii. Ambient noise levels shall conform to the prescribed standards both during day and night. Incremental pollution loads on the ambient noise quality shall be closely monitored.
- ix. Personnel working in dusty areas shall wear protective respiratory devices and shall be provided with adequate training and information on safety and health aspects.
- x. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. 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 shall be drawn and followed meticulously.
- xi. A first aid room shall be provided in the project both during construction and operation phases of the project.
- xii. Provision shall be made for the housing of workers, if residing at 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. The treated domestic effluent shall be discharged onto the land for plantation.
- xiii. The 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 shall be provided at site and the workers shall be educated to dispose all the waste in these dustbins. There shall be no littering at the site as well as in the vicinity.
- xiv. The project proponent shall prepare the risk assessment and disaster management plan.
 - xv. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a senior executive, who shall report directly to the head of the organization.
 - xvi. The funds earmarked for environmental protection measures shall be kept in a separate account and shall not be diverted for any other purpose(s). Year-wise expenditure shall be reported to the MoEF&CC and its Regional office located at Chandigarh and SEIAA, Punjab.
 - xvii. The project proponent shall inform the Regional Office of the MoEF&CC located at Chandigarh and SEIAA, Punjab the date of start and completion of the Project.
 - xviii. The Regional office of MoEF&CC located at Chandigarh and PPCB shall monitor compliance of the stipulated conditions of this EC. The project proponent shall extend full cooperation to the officer (s) deputed for this purpose and furnish them the requisite data / information / monitoring reports.
 - xix. The project proponent shall submit six-monthly reports on the status of compliance of the stipulated EC 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 EC conditions, including results of monitored data on their website and shall update the same periodically.
 - xx. Within seven days of the issuance of EC, the project proponent shall prominently advertise (in at least two local newspapers of the district or state, of which one shall be in the vernacular language) that the project has been accorded EC along with the details of MoEF&CC/SEIAA website where it is displayed.
 - xxi. The project proponent shall send a copy of the EC letter to the concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the local non-profit organization, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The project proponent shall also upload the EC on the company's website.
 - xxii. The project proponent shall send a copy of EC to the Regional office, District Industries Centre and the Collector's office/ Tehsildar's office for display.
 - xxiii. The project proponent shall submit environmental statement for each financial year ending 31 March in Form-V to the PPCB (as prescribed under the Environment

(Protection) Rules, 1986 amended from time to time), and display the same on the company's website along with the status of compliance of EC conditions. In addition, the project proponent shall also send the environmental statement to the Regional office of the MoEF&CC, Chandigarh and SEIAA, Punjab by e-mail.

- xxiv. The project proponent shall adhere to all the commitments made in the Environment Management Plan.
- xxv. The MoEF&CC and SEIAA, Punjab or any other Competent Authority may alter/modify the above conditions or stipulate additional conditions in the interest of environment protection and the project proponent will be bound to implement all such additional, altered or modified conditions.
- xxvi. The SEIAA may suspend or revoke the EC granted to the project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this EC, it is found/ comes 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 or if the Project Proponent fails to implement any of the conditions prescribed in the EC.
- xxvii. The project proponent may apply for transfer of EC under EIA notification dated 14.09.2006 to any other party. However, no activity shall be undertaken by the transferee till the EC is duly transferred in his name. The transferee will be lawfully bound to comply with all the conditions of the EC.