

**Proceedings of the 264<sup>th</sup> meeting of the State Environment Impact Assessment Authority (SEIAA) held on 12.10.2023 (Thursday) at 10:00 AM in the Conference Hall no. 2, 1<sup>st</sup> Floor, MGSIPA Complex, Sector-26, Chandigarh through Hybrid mode.**

The meeting was attended by the following members:

- 1) Sh. H S Gujral,  
Chairman, SEIAA
- 2) Dr. Kamal Kumar Garg, IAS  
Member Secretary, SEIAA
- 3) Dr. Adarsh Pal Vig, Member SEIAA -cum  
Chairman, Punjab Pollution Control Board, Patiala (Through VC)

Er. Parveen Saluja, Environmental Engineer and Er. Rantej Sharma, Environmental Engineer SEIAA along with other supporting staff of SEIAA also attended the meeting.

Director, Mining and the Assistant Geologist, Mining Department and other staff of the Mining Department also participated in the meeting during deliberations regarding the Agenda items pertaining to the State Mining Department.

**Item No. 01: Confirmation of the proceedings of the 263<sup>rd</sup> meeting of the State Environment Impact Assessment Authority**

SEIAA was apprised that the draft proceedings of the 263<sup>rd</sup> meeting of the State Environment Impact Assessment Authority (SEIAA) held on 06.10.2023 has already been prepared and sent through e-mail dated 11.10.2023 to the Competent Authority for kind consideration.

It was observed that in the minutes prepared for item no. 263.19, a condition regarding deposition of funds in Green Punjab Mission Scheme before start of mining activity, in case of Public Mining Sites has not been imposed in the EC. However, considering the fact that mining operations in Public Mining Sites also have an adverse Environmental Impact, SEIAA decided that an additional condition while issuing permission to mining department in case of public mining sites may be imposed as under:

*“The mining department shall deposit the money for undertaking plantations and additional Environmental Activities in the Greening Punjab Mission (GPM) budget head in case of Public Mining Sites through the concerned DFO, by 15.12.2023 and subsequently, provide copies of the challans of the same to the SEIAA within a period of 7days, as per criteria as under:*

**Amount to be deposited** = Rs {(50,000 x Total Area of Mining lease in Ha.) + (Total Mineable Qty in MT as per EC / ToR application x 0.5)}.

**Budget Head:**

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

”

SEIAA directed the supporting staff that action should be taken as per the rectification made in the proceedings of item no. 263.19 as above.

**Item No. 02: Action taken on the proceedings of the 262<sup>nd</sup> and 263<sup>rd</sup> meeting of State Environment Impact Assessment Authority held on 26.09.2023 and 06.10.2023 respectively.**

SEIAA was apprised that the action taken on the decisions of proceedings of the 262<sup>nd</sup> meeting of SEIAA have been completed whereas action as per the proceedings of the 263<sup>rd</sup> meeting shall be taken after finalization of the proceedings which is under consideration of the Competent Authority. SEIAA noted the same and directed the supporting staff to complete the action taken of 263<sup>rd</sup> meeting at the earliest. Besides this, Er. Rantej Sharma, Environmental Engineer, SEIAA has also been directed to complete the pending action in respect of item no. 259.23 of the 259<sup>th</sup> meeting of SEIAA held on 31.08.2023.

**Item No. 264.01: Permission for starting the mining operation pending Environment Clearance and Terms of Reference issued to the mining site as per approved District Survey Report.**

The Chief Engineer, Mines & Geology vide e-mail dated 11.10.2023 informed that SEIAA in its 263<sup>rd</sup> meeting held on 06.10.2023 has directed to submit the details regarding the amount deposited for the CMS sites under Green Mission Punjab as per the condition imposed while granting permission to start the mining activities vide letter no. 1607 dated 29.09.2023.

In compliance with the said decision, it was informed that the requisite information was sought vide letter no. 2548 dated 04.10.2023 from the concerned XENs regarding the status of amount deposited for the CMS mines under Green Mission Punjab. A copy of the list of the proposals of Commercial Mining Sites falling under B1 category for which ToRs have been issued by SEIAA including the list of proposal of Commercial Mining Site falling under B2 which have cleared the scrutiny stage but the application of EC is pending with the SEIAA till 11.10.2023 and have deposited the requisite amount under Green Mission Punjab enclosed with the said letter is attached as **Annexure-A** of the agenda. Further, the list of PMS mines whose ToRs have been granted after 29.09.2023 enclosed with the said letter is attached as **Annexure-B** of the agenda.

Further, SEIAA has been requested to grant permission for commencing of mining operations in sites attached as **Annexure-A & B**. It has also been informed that the subsequent list of mines for which the Green Mission Punjab fees is yet to be paid is also being sent separately.

**Deliberations during 264<sup>th</sup> meeting of SEIAA held on 12.10.2023.**

The case was considered by SEIAA in its 264<sup>th</sup> meeting held on 12.10.2023, which was attended by the following:

- (i) Sh. Hardeep Singh Mehndiratta, Chief Engineer, Mining and Geology.
- (ii) Sh. Khushwinder Singh, Executive Engineer, Mining and Geology.
- (iii) Sh. Paras Mahajan, Assistant Geologist and other officers from Head Office of the Mining Department.

In this regard, it is intimated that representations submitted to SEIAA vide above referred letters, requesting permission to undertake sand mining operations where the applications of Environmental Clearance are pending with SEIAA / SEAC and in cases where Terms of Reference (TORs) have been issued to the mining sites (as per approved DSR) up to the period of 31.12.2023 and/or till the grant of regular ECs for the mining sites (whichever is earlier), were considered in the

263<sup>rd</sup> meeting of SEIAA held on 12.10.2023. Following detailed deliberations, SEIAA observed / decided as under:

2). That in compliance of earlier directions issued by SEIAA, funds for undertaking plantation and carrying out Additional Environmental Activities in the Greening Punjab Mission head have been deposited by mining contractors/concessionaires who have been awarded CMS sites in respect of the following proposals:

**Table-1**

**(List of the Commercial Mining Sites in which ToRs have been issued and requisite funds have been deposited in the Green Mission Punjab)**

Sr. No.	District	Name of Mine	Area (HA)	Per annum Extractable Quantity	PMS/ CMS	Online Proposal Number	Remarks
1	Ludhiana	KANIAN HUSSAINI, HAYATEWAL	45.1	307401	CMS	SIA/PB/MIN/437857/2023	TOR Granted on 05.10.2023
2	Moga	Adraman- 2	51.4	391399	CMS	SIA/PB/MIN/435085/2023	TOR Granted On 08.09.2023
3	Moga	BASSIAN KAMALKE	28	189187	CMS	SIA/PB/MIN/435100/2023	TOR Granted On 06.09.2023
4	Ropar	Nangra Kalmot-2	19.9	143325	CMS	SIA/PB/MIN/423766/2023	TOR granted on 05.10.2023
5	Tarn Taran	Toot	17	252076	CMS	SIA/PB/MIN/434797/2023	TOR Granted on 06.09.2023
6	Tarn Taran	Sabhra 4	30.5	264130	CMS	SIA/PB/MIN/439238/2023	TOR Granted on 29.09.2023
7	Hoshiarpur	Badial	5.93	18265	CMS	SIA/PB/MIN/424068/2023	TOR Granted on 08.09.2023
8	Ludhiana	Manewal, Talwandi Naubaad And Walipur	33	432690	CMS	SIA/PB/MIN/426450/2023	TOR granted on 08.09.2023
9	Pathankot	Shahpurgopi and Gol	36.8	559118	CMS	SIA/PB/MIN/424286/2023	TOR Granted on 09.10.2023
10	Jalandhar	Ghag Dhagara-2	17	232049	CMS	SIA/PB/MIN/437875/2023	TOR Granted on 24.8.2023
11	Ludhiana	Sujatwal Complex	16	256435	CMS	SIA/PB/MIN/434960/2023	TOR Granted on 29.08.2023
12	Ludhiana	Boont-2	25.4	352034	CMS	SIA/PB/MIN/423543/2023	TOR Granted on 11.09.2023

**Table-2**

**(List of the Public Mining Sites in which ToRs have been granted by SEIAA, Punjab)**

Sr. No.	District	Name of Mine	Area (HA)	Per annum Extractable Quantity	PMS/ CMS	Online Proposal Number	Remarks
1	Ropar	Malana	7.17	68316	PMS	SIA/PB/MIN/422263/2023	TOR granted on 05.10.2023
2	Tarn Taran	Sabhra-1	3.08	38889	PMS	SIA/PB/MIN/427563/2023	TOR Granted on 29.09.2023
3	Tarn Taran	Sabhra-2	4.61	61826	PMS	SIA/PB/MIN/427563/2023	TOR Granted on 29.09.2023

3). That while granting permission vide letter no. letter no. 1607 dated 29.09.2023 for starting mining operations in sites for which applications of Environmental Clearance were pending with SEIAA as also in sites for which Terms of Reference had already been issued, a condition was imposed to the effect that the Mining Department shall direct the concessionaires who have been awarded CMS sites to deposit requisite funds for undertaking plantations and additional Environmental Activities in the Greening Punjab Mission (GPM) budget head through the concerned DFO as per criteria as under:

**Amount to be deposited** = Rs {(50,000 x Total Area of Mining lease in Ha.) + (Total Mineable Qty in MT as per EC / ToR application x 1.5)}.

**Budget Head:**

<b>Demand No.</b>	<b>32- Forestry and Wildlife</b>
<b>Major Head</b>	<b>0406 – Forestry and Wildlife</b>
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4). That the aforesaid condition was *inter alia* imposed keeping in view the directions issued by the Hon'ble High Court in CWP 29652 of 2022 on 10.01.2023 that the "State must strictly ensure that sand mining activity undertaken by them does not damage the environment or the rivers

*in question, and in fact take all steps to protect ground water and environment and also undertake rehabilitation measures”.*

5) That the mining department informed that the project proponents of the commercial mining sites bearing proposal numbers as mentioned in the aforesaid **Table-1 & 2** have deposited the requisite amount for undertaking plantations and additional Environmental Activities with the concerned Executive Engineer-cum-District Mining Officer, which shall be deposited by the said XENS in the Greening Punjab Mission (GPM) budget head through the concerned DFO at the earliest. As such, project proponents of the commercial mining sites bearing proposal numbers as mentioned in the aforesaid Table-1 & 2 have now complied with the conditions imposed vide SEIAA letter no. 1607 dated 29.09.2023.

6) That keeping the above considerations and public interest in view, SEIAA decided that Mining Department or its authorized agents of the bearing proposal nos as mentioned in the Table-1 & Table -2 above may be permitted to undertake mining operations in respect of sites for which EC applications have cleared the scrutiny stage and are pending with SEIAA / SEAC and also in respect of sites for which ToRs have been issued by SEIAA. This permission is valid till 31.12.2023 or till the grant of regular ECs for these sites (whichever is earlier) subject to the conditions imposed while granting the Environmental Clearance to the Commercial mining sites as mentioned in the **Annexure-1** and to the Public mining sites as mentioned in the **Annexure-2** and the following additional conditions:

- i) The provisions of the SSMG, 2016, and EMGSM,2020, issued by the MOEF&CC and the DSRS approved by SEIAA, Punjab, along with relevant orders of the NGT and other relevant rules of the State and Central government should be strictly complied with.
- ii) The Mining operations will be undertaken by the respective XENS-cum-District Mining officers under the strict supervision of the Government.
- iii) In accordance with the SSMG Guidelines, Mining should be commenced only after preparation of the Mining Plan by the Recognized Qualified Person (RQP) and approval of the same by the designated authority of the Mining Department. Other statutory requirements like demarcation of the site and obtaining written consent of the landowners must also be complied with.
- iv) The District Level Task Force (DLTF)/Regional office of MoEF&CC located at Chandigarh/5 member NGT appointed committee for inspection of mining sites and Punjab Pollution Control Board may 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.

- v) Accurate daily record must be maintained of all the extracted material. Subsequent EC applications for the sites should be submitted after duly deducting the cumulative material extracted till the date of submission of the EC applications.
- vi) In case of riverbed sites, depth of extraction should not exceed 1 meter and maximum quantity to be extracted should not exceed 50% of the net mineable deposits identified in the DSRS.
- vii) The terms and conditions stipulated for the commercial mining site (**Annexure-1**) Public Mining Sites (**Annexure-2**) must be meticulously complied with by the Project Proponents (respective XENs-cum District Mining officers).
- viii) The mining department shall deposit the collected money from the mining contractor/concessionaires who have been awarded CMS sites for undertaking plantations and additional Environmental Activities in the Greening Punjab Mission (GPM) budget head through the concerned DFO, within 15 days and subsequently, provide copies of the challans of the same to the SEIAA within a period of 7days.
- ix) Manual method of mining will be adopted unless semi-mechanized method has been specifically approved for the site.
- x) The Mining Department shall expedite the process of submission of the remaining applications for grant of regular ECs / ToRs.
- xi) The permission as granted above is liable to be withdrawn in-case of violations/non-compliance of the above conditions.



### Condition for the Commercial Mining Sites

#### 1.0 Specific conditions:

1. 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.
2. Mining should begin only after pucca/permanent demarcation pillars 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.
3. Mining shall be carried out through semi- mechanized method.
4. In Case of River Bed Mining, the following condition shall also apply:
  - i) Riverbed mining may be carried out in dry stretches of sand aggradations through semi-mechanized methods in rivers with bank-to-bank width of river more than 100 meter.
  - ii) The excavator to be used for river bed mining should have maximum bucket capacity of 1 cum and maximum boom length of 3 meters.
  - iii) The excavator used for riverbed mining and flood plain mining should only be tyre mounted.
  - iv) The excavators to be used for floodplain mining should have bucket capacity upto maximum of 1 cum and boom length upto maximum of 3 meters.
  - v) In case of perennial streams and creeks, only manual mining should be undertaken.
  - vi) The capacity of Tippers to be used for transportation of minor minerals tippers should not exceed 10 tons. For tipper capacity of more than 10 tons, the permission of concerned department responsible for maintenance of that road should be obtained.
  - vii) No sand mining be allowed in the river basin sites during the monsoon season as defined by the Meteorological department.
  - viii) Annual replenishment report certified by an authorized agency shall be carried out. In case the replenishment is lower than the approved rate of production, then the mining activity / production levels shall be decreased / stopped accordingly till the replenishment is completed.
  - ix) In River flood plain mining a buffer of 3 meter to be left from the River bank for mining.
  - x) Mining shall be done in layers of 1 meter depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
  - xi) To maintain safety and stability of Riverbanks i.e. 3 meter or 10% of the width of the River whichever is more will be left intact as no mining zone.
  - xii) No stream should be diverted for the purpose of sand mining. No natural water

course and/ or water resources are obstructed due to mining operations.

- xiii) A temporary katcha access road between the bank of the river and the mining area with locally available bio-degradable materials such as sugarcane waste, paddy straws etc. shall be ensured by the project proponent and the same be regularly maintained.
5. The Project Proponent shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.
  6. For each mining lease site the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.
  7. Mining shall not be undertaken in a mining lease located in 200 meter of bridge, 200 meter upstream and downstream of water supply / irrigation scheme, 100 meters from the edge of National Highway and railway line, 50 meters from a reservoir, canal or building, 25 meter from the edge of State Highway and 10 meters from the edge of other roads except on special exemption by the Sub-Divisional level Joint Inspection Committee.
  8. For carrying out mining in proximity to any bridge or embankment, appropriate safety zone (not less than 200 meters) should be worked out on case to case basis, taking into account the structural parameters, location aspects and flow rate, and no mining should be carried out in the safety zone so worked out.
  9. No mining operation shall be carried out at any point within 75 m of railway line, 50 m from HT line/any public works/reservoirs, tanks/canal/public roads and buildings or inhabited or 10 m of outer edge of any village road. A safety barrier as proposed in the mining plan shall be left intact around the mine lease boundary
  10. Removal, stacking and utilization of top soil in mining are should be ensured. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.
  11. 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 and other relevant Acts/rules related with mining of minor minerals.
  12. The mining activity shall be carried out strictly as per guidelines contained in the Sustainable Sand Mining Management Guidelines 2016 and provisions made in the Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by MoEF&CC, New Delhi as amended from time to time and guidelines issued by Geological Survey of India.
  13. The mining operations will be carried out only from sun-rise to sunset.
  14. The project proponent shall obtain Consent to Establish and Consent to Operate from the Punjab Pollution Control Board and effectively implement all the conditions stipulated therein.
  15. 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.

16. The mining of minor mineral (sand) shall be carried out only up to depth as approved in mining plan or above the groundwater level, whichever is less.
17. The mining shall be carried out by the contractor/lessor as per the EMP prepared and development / mining plan prepared as per the Mines & Mineral (Development & Regulation) Act, 1957 / other Acts/Rules related with mining of minor minerals.
18. The Project Proponent and Mining Officer shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.
19. The project proponent shall undertake plantation/afforestation work by planting the native species in the nearby area adjacent to mine lease.
20. 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 should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Ministry of Environment & Forests/Punjab Pollution Control Board in this regard.
21. The project proponent shall undertake adequate safeguard measures during extraction of minor minerals 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.
22. The periodic monitoring [(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 and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office at Chandigarh, the Central Ground Water Authority, the Regional Director, Central Ground Water Board; SEIAA, Punjab and Punjab Pollution Control Board. 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.
23. 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.
24. 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 treated waste water will be used for dust suppression activities.
25. Adequate numbers (as proposed in the EMP) of tree shall be planted, protected, maintained and established by the project proponent in vacant area in the village near to the mining site or through the Forest Department under GPM scheme.
26. Appropriate mitigation measures shall be taken by the project proponent to prevent pollution at the mining site in consultation with the Punjab Pollution Control Board. It shall be ensured that there is no leakage of oil and grease at the mining site from the vehicles/mining equipment's used for transportation.

27. 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.
28. The mineral transportation shall be carried out through 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 tippers carrying mined material are not loaded beyond the permissible load as per 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.
29. Mineral handling area shall be provided with the adequate number of dust suppression systems. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
30. A First Aid Room shall be provided in the project both during construction and operations of the project.
31. 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.
32. 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 and treated domestic effluent shall be discharged onto land for plantation.
33. The solid waste generated shall be disposed of as per Solid Waste Management Rules, 2016. Segregation of bio-degradable and non-biodegradable wastes shall be done at site and disposed of as per provisions of Solid Waste Management Rules. Dustbins will be provided at site and the workers will be guided to put the domestic waste and plastic carry bags etc. if any, in the dustbin. No littering will be permitted at the site as well as in the vicinity.
34. The critical parameters such as RSPM (Particulate matter with size less than 10 microns i.e., PM10) and NO in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, 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 Ministry of Environment and Forests, which is available on the website of the Ministry [www.envfor.nic.in](http://www.envfor.nic.in) shall also be referred in this regard for its compliance.
35. 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 Ministry of Environment and Forests, Chandigarh and SEIAA, Punjab.

36. Vehicles hired to be used for transportation of mined material should be in good condition and should conform to applicable air and noise emission standards as provided in the Vehicular Act.
37. Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored.
38. The Risk assessment and disaster management plan should be prepared.
39. The project proponent shall submit the site plan showing the earmarked area for storage of mined material.
40. The project proponent shall ensure the implementation of the post closure mining plan as proposed by the project proponent in the mining plan.
41. The project proponent shall comply with the condition imposed by District Forest Officer (DFO) while granting NOC.
42. The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.
43. 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.

## **2.0 General Conditions:**

1. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Punjab.
2. No change in the calendar plan including excavation, quantum of mineral sand/gravel (minor mineral) and waste should be made.
3. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM) and NO<sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the PPCB.
4. Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM) & NO<sub>x</sub> should be regularly submitted to the MoEF&CC including its Regional office located at Chandigarh and the PPCB / Central Pollution Control Board (CPCB) once in six months and SEIAA, Punjab.
5. 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.

6. 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.
7. 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.
8. 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 mining operations.
9. The Regional office of MoEF&CC located at Chandigarh and PPCB may 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.
10. A copy of the clearance letter shall be sent by the proponent to the 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.
11. 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.
12. 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.
13. The project proponent shall adhere to the commitments made in the Environment Management Plan.
14. 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.
15. The project proponent shall ensure that the contractor shall engage people of local area for mining purpose as far as possible, so as to generate opportunities of employment for them.
16. The monitoring of the mining project shall be carried out by the State/District Level Environment Management Cells constituted by the Govt. of Punjab vide notifications dated 03.12.2012.

### **3.0 Additional Conditions**

1. Use of technology like Bar Coding, Information and Communications Technology

(ICT), web based and ICT enabled services, mobile SMS App etc. be ensured to account for quantity of the mineral being taken out of the mining site and the number and type of transport vehicles.

2. After ceasing mining operations, the project proponent shall 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.
3. The project proponent shall comply with all the conditions of the Mining Plan and the recommendations of the Sub-Divisional Committees made in the approved DSR.
4. All the general restrictions as per Rule 41 of PMMR, 2013, will be complied with.
5. Prior consent of the landowners will be obtained in the form of an affidavit.
6. The project proponent shall ensure that the compensation to the private landowner (s) for the mined area shall be made as per the prevalent policy of the State Govt.
7. In mining from Agricultural filed, a buffer no-mining zone of 3m will be left from the adjacent fields.
8. The project proponent shall ensure that no civil structure is allowed to come up/exists within a distance of 15 m from the periphery of excavation area.
9. No drilling and blasting operation shall be carried out.
10. No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made thereunder.
11. No felling of trees near quarry is allowed. For mining lease adjacent to National Park/ Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wildlife (NBWL) has to be obtained as per the latest directions of Hon'ble Supreme Court.
12. Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.

### Condition for the Public Mining Sites

#### 1.0 Specific conditions:

1. 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.
2. 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.
3. Mining shall be carried out through manual method.
4. In Case of River Bed Mining, the following condition shall also apply:
  - i) Riverbed mining may be carried out in dry stretches of sand aggradations through semi-mechanized methods in rivers with bank-to-bank width of river more than 100 meter.
  - ii) Mining shall be carried out only by the manual method. No semi- mechanized or mechanized method of mining has been allowed as proposed in the mining plan.
  - iii) No sand mining be allowed in the river basin sites during the monsoon season as defined by the Meteorological department.
  - iv) Annual replenishment report certified by an authorized agency shall be carried out. In case the replenishment is lower than the approved rate of production, then the mining activity / production levels shall be decreased / stopped accordingly till the replenishment is completed.
  - v) In River flood plain mining a buffer of 3 meter to be left from the River bank for mining.
  - vi) Mining shall be done in layers of 1 meter depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.
  - vii) To maintain safety and stability of Riverbanks i.e. 3 meter or 10% of the width of the River whichever is more will be left intact as no mining zone.
  - viii) No stream should be diverted for the purpose of sand mining. No natural water course and/ or water resources are obstructed due to mining operations.
  - ix) A temporary katcha access road between the bank of the river and the mining area with locally available bio-degradable materials such as sugarcane waste, paddy straws etc. shall be ensured by the project proponent and the same be regularly maintained.
5. The project proponent shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.



6. For each mining lease site the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.
7. Mining shall not be undertaken in a mining lease located in 200 meter of bridge, 200 meter upstream and downstream of water supply / irrigation scheme, 100 meters from the edge of National Highway and railway line, 50 meters from a reservoir, canal or building, 25 meter from the edge of State Highway and 10 meters from the edge of other roads except on special exemption by the Sub-Divisional level Joint Inspection Committee.
8. For carrying out mining in proximity to any bridge or embankment, appropriate safety zone (not less than 200 meters) should be worked out on case to case basis, taking into account the structural parameters, location aspects and flow rate, and no mining should be carried out in the safety zone so worked out.
9. No mining operation shall be carried out at any point within 75 m of railway line, 50 m from HT line/any public works/reservoirs, tanks/canal/public roads and buildings or inhabited or 10 m of outer edge of any village road. A safety barrier as proposed in the mining plan shall be left intact around the mine lease boundary
10. Removal, stacking and utilization of top soil in mining are should be ensured. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.
11. 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 and other relevant Acts/rules related with mining of minor minerals.
12. The mining activity shall be carried out strictly as per guidelines contained in the Sustainable Sand Mining Management Guidelines 2016 and provisions made in the Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by MoEF&CC, New Delhi as amended from time to time and guidelines issued by Geological Survey of India.
13. The mining operations will be carried out only from sun-rise to sunset.
14. The project proponent shall obtain Consent to Establish and Consent to Operate from the Punjab Pollution Control Board and effectively implement all the conditions stipulated therein.
15. 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.
16. The mining of minor mineral (sand) shall be carried out only up to depth as approved in mining plan or above the groundwater level, whichever is less.
17. The mining shall be carried out by the contractor/lessor as per the EMP prepared and development / mining plan prepared as per the Mines & Mineral (Development & Regulation) Act, 1957 / other Acts/Rules related with mining of minor minerals.
18. The Project Proponent and Mining Officer shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.

19. The project proponent shall undertake plantation/afforestation work by planting the native species in the nearby area adjacent to mine lease.
20. 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 should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Ministry of Environment & Forests/Punjab Pollution Control Board in this regard.
21. The project proponent shall undertake adequate safeguard measures during extraction of minor minerals 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.
22. The periodic monitoring [(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 and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office at Chandigarh, the Central Ground Water Authority, the Regional Director, Central Ground Water Board; SEIAA, Punjab and Punjab Pollution Control Board. 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.
23. 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.
24. 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 treated waste water will be used for dust suppression activities.
25. Adequate numbers (as proposed in the EMP) of tree shall be planted, protected, maintained and established by the project proponent in vacant area in the village near to the mining site or through the Forest Department under GPM scheme.
26. Appropriate mitigation measures shall be taken by the project proponent to prevent pollution at the mining site in consultation with the Punjab Pollution Control Board. It shall be ensured that there is no leakage of oil and grease at the mining site from the vehicles/mining equipment's used for transportation.
27. 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.
28. The mineral transportation shall be carried out through 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 tippers carrying mined material are not loaded beyond the permissible load as per 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.
29. Mineral handling area shall be provided with the adequate number of dust suppression systems. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
  30. A First Aid Room shall be provided in the project both during construction and operations of the project.
  31. 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.
  32. 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 and treated domestic effluent shall be discharged onto land for plantation.
  33. The solid waste generated shall be disposed of as per Solid Waste Management Rules, 2016. Segregation of bio-degradable and non-biodegradable wastes shall be done at site and disposed of as per provisions of Solid Waste Management Rules. Dustbins will be provided at site and the workers will be guided to put the domestic waste and plastic carry bags etc. if any, in the dustbin. No littering will be permitted at the site as well as in the vicinity.
  34. The critical parameters such as RSPM (Particulate matter with size less than 10 microns i.e., PM10) and NO in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, 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 Ministry of Environment and Forests, which is available on the website of the Ministry [www.envfor.nic.in](http://www.envfor.nic.in) shall also be referred in this regard for its compliance.
  35. 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 Ministry of Environment and Forests, Chandigarh and SEIAA, Punjab.
  36. Vehicles hired to be used for transportation of mined material should be in good condition and should conform to applicable air and noise emission standards as provided in the Vehicular Act.

37. Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored.
38. The Risk assessment and disaster management plan should be prepared.
39. The project proponent shall submit the site plan showing the earmarked area for storage of mined material.
40. The project proponent shall ensure the implementation of the post closure mining plan as proposed by the project proponent in the mining plan.
41. The project proponent shall comply with the condition imposed by District Forest Officer (DFO) while granting NOC.
42. The Project Proponent shall report monitoring data on replenishment, traffic management, levels of production, River Bank erosion and maintenance of Road etc.
43. 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.

## **2.0 General Conditions:**

1. No change in mining technology and scope of working should be made without prior approval of the SEIAA, Punjab.
2. No change in the calendar plan including excavation, quantum of mineral sand/gravel (minor mineral) and waste should be made.
3. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM) and NO<sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the PPCB.
4. Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM) & NO<sub>x</sub> should be regularly submitted to the MoEF&CC including its Regional office located at Chandigarh and the PPCB / Central Pollution Control Board (CPCB) once in six months and SEIAA, Punjab.
5. 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.
6. 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.
7. 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.

8. 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 mining operations.
9. The District Level Task Force (DLTF)/Regional office of MoEF&CC located at Chandigarh/5 member NGT appointed committee for inspection of mining sites and Punjab Pollution Control Board may 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.
10. 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.
11. 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.
12. The project proponent shall adhere to the commitments made in the Environment Management Plan.
13. 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.
14. The project proponent shall ensure that the contractor shall engage people of local area for mining purpose as far as possible, so as to generate opportunities of employment for them.
15. The monitoring of the mining project shall be carried out by the State/District Level Environment Management Cells constituted by the Govt. of Punjab vide notifications dated 03.12.2012.

### **3.0 Additional Conditions**

1. Use of technology like Bar Coding, Information and Communications Technology (ICT), web based and ICT enabled services, mobile SMS App etc. be ensured to account for quantity of the mineral being taken out of the mining site and the number and type of transport vehicles.
2. After ceasing mining operations, the project proponent shall 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.
3. The project proponent shall comply with all the conditions of the Mining Plan and the recommendations of the Sub-Divisional Committees made in the approved DSR.
4. All the general restrictions as per Rule 41 of PMMR, 2013, will be complied with.

5. Prior consent of the landowners will be obtained in the form of an affidavit.
6. The project proponent shall ensure that the compensation to the private landowner (s) for the mined area shall be made as per the prevalent policy of the State Govt.
7. In mining from Agricultural filed, a buffer no-mining zone of 3m will be left from the adjacent fields.
8. The project proponent shall ensure that no civil structure is allowed to come up/exists within a distance of 15 m from the periphery of excavation area.
9. No drilling and blasting operation shall be carried out.
10. No mining lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules made thereunder.
11. No felling of trees near quarry is allowed. For mining lease adjacent to National Park/ Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of Standing Committee of National Board of Wildlife (NBWL) has to be obtained as per the latest directions of Hon'ble Supreme Court.
12. Spring sources should not be affected due to mining activities. Necessary Protection measures are to be incorporated.

**Item No. 264.02: Application for Environmental Clearance for carrying out mining of minor minerals sand at Village ADB Bela Tajawal, Tehsil- Balachaur , District- SBS Nagar, Punjab by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resource Department, SBS Nagar. (Proposal No SIA/PB/MIN/445028/2023)**

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resource Department, SBS Nagar 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 at the mining site of Village ADB Bela Tajawal, Tehsil-Balachaur, District- SBS Nagar, Punjab.

The Department has deposited requisite fee of Rs. 1980/- dated 20-09-2023 for obtaining Environmental Clearance for carrying out mining in the above mining site. The adequacy & depositing 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./ADB Bela Tajawal/2402 dated 14.09.2023**

**Deliberations during 262<sup>nd</sup> meeting of SEAC held on 05.10.2023.**

The meeting was attended by the following:

- (i) Sh. Bhavuk Sharma, DMO, SBS Nagar Department of Mines & Geology.
- (ii) Sh. Joginder Singh, SDO, SBS Nagar Department of Mines & Geology.
- (iii) Ms. Harmanpreet Kaur, EC-Coordinator M/s Eco Paryavaran Laboratories & Consultant Pvt Ltd.

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

S.No.	Item	Details
1.	Online Proposal No. and date of submission	SIA/PB/MIN/445028/2023
2.	Project Name & Location	RBM Sand Mining Project (0.99 Ha) Village: ADB Bela Tajawal Tehsil- Balachaur District- SBS Nagar, State Punjab
3	Name of the Applicant, Designation Mobile no. & Email Id	Executive Engineer/SBS Nagar Drainage cum Mining and Geology WRD Canal Colony Kapurthala Road, Jalandhar  8950065264 happy.kumar65@punjab.gov.in

4	Name of Environmental Consultant, Mobile no. & Email Id	Eco Paryavaran Laboratories & Consultants Pvt. Ltd. (formerly Eco Laboratories & Consultants Pvt. Ltd.) 8872043178 md@ecoparyavaran.org			
5	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals			
6	Details of Mining Lease				
vi)	Mineral (s) to be mined	1) Sand			
vii)	Method of mining	Manual			
viii)	Agriculture land or River/choe mining. In case of River/Choe mining, name of the River/ Choe to be specified.	Riverbed (PO_SN_BL_ST_5), (Public Mining Site)			
ix)	d. Capacity of Mine as per the EC application/DSR/Mining plan in MT and TPA	<b>Description</b>	<b>As per the EC application</b>	<b>As per the approved DSR</b>	<b>As per the Mining Plan</b>
	e. Area of the Mine as per EC application/DSR/Mining plan	<b>Mine Capacity in MT</b>	29403	33415.20	29403
		<b>Mine Capacity in TPA</b>	9801	---	9801
	f. Depth of mining as per EC application/DSR/Mining plan	<b>Mining Area on mining in HA</b>	0.99	1.19	0.99
		<b>Depth of Mining in m</b>	3m	3m	3m
	Note: EC cannot be appraised more than quantity and area mentioned in the approved DSR				
x)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt., where applicable	Validity of LOI: 3 YEARS Mining Lease Area: 0.99 Ha Mining Quantity: 9801 TPA			



7	Details of Final District Survey Report		Approved by: - SEIAA Reference No: SEIAA/MS/2023/212 Date of Issue: 02/02/2023 Safe distance from banks (m): Annual rate of replenishment as per the study conducted:	
8	HadBast No.		421	
9	Land Khasra No. & their consent details			
	Sr No	Type	Khasra No	Consent details provided (Yes/No)
	1	Govt Land		
	2	Private Land	48//1, 2, 10, 49//3/2, 4, 6, 7, 8, 9, 10.	Yes
10	Latitude & Longitude			
	<b>Pillar No.</b>	<b>Latitude</b>	<b>Longitude</b>	
	1	30°58'22.48"N	76°25'5.85"E	
	2	30°58'24.30"N	76°25'14.92"E	
	3	30°58'23.40"N	76°25'14.99"E	
	4	30°58'23.52"N	76°25'17.16"E	
	5	30°58'24.75"N	76°25'17.24"E	
	6	30°58'25.27"N	76°25'19.77"E	
	7	30°58'23.05"N	76°25'18.78"E	
11	Does the project involve diversion of forest land? If yes, a. Extent of the forest land.		NO	
	b. Status of the forest clearance. If No, submit documentary proof			

12	Does the project fall of eco-sensitive area/ National Park/Wild Life Sanctuary? If yes, application submitted to NBWL.	NO
13	Cost of the project	Rs. 41,16,420
14	Environmental Clearance. Fee details	Rs 1980/-
15	Certificate to be provided by DMO, that the proposal is as per the annexure-V of DSR.	Certificate No: Attached Date : 20/09/2023
16	Demarcation report of mining site	Date of demarcation: 9/12/2022 Photographs submitted: Yes Pillars will be erected before mining activity starts
17	Workers (when fully operational)	06 Persons.
18	Water Requirements & source	Domestic: 0.5 KLD (@ 45 lpcd) Dust Suppression: 3.00 KLD Total: 3.50 KLD Ground water/Others: 01 Borwell
19	Waste water generation, Treatment & its Disposal	i) Quantity of Waste water : 0.40 KLD (80% of water requirement) ii) Treatment Method: Septic Tank iii) Mode of Disposal : a) Plantation purpose.: 0.40 KLD
20	Green Belt Development Plan including no. of trees to be planted & its species.	Tree cutting ( if any ) : 0 Nos No of plant to be planted: 48 Nos Funds Allocated: Rs 48,000 towards capital cost and Rs 48,000 towards recurring cost. (Rs 1000/- per tree as capital cost and Rs 1000/per tree as maintenance cost)
21	Whether any High Transmission wires is passing over the proposed mining site (yes/No)	NO
22	Environment Management Plan along with Budgetary breakup and responsibility to implement	Sh.XEN/DMO SBS Nagar will be responsible for the implementation of EMP till the mining activities closed as per the mining plan.

23				
	Sr. No	Environment mitigation measure	Capital Cost (Rs. in Lacs)	Recurring Cost (Rs. Lacs/annum) in
	1	Water Sprinkling Measures to be done on haul road to suppress dust & Haul Road and other Roads Repair and maintenance	1,00,000	50,000
	2	Plantation and maintenance of 171 saplings through State Forest Department under Green Punjab Mission: Plantation cost 0.99 Ha x 50 saplings/Ha= 48 saplings @ Rs.1000 per sapling.	48,000	0
	3	Drinking water facility, Septic Tank & Mobile toilets and solid waste management	65,000	10,000
	4	Safety equipment's such as gloves, mask, helmet, First aid kit etc.	19,000	7,000
	5	Additional Environmental activities (Rs. 0.5 per MT of Total quantity 29,403 *0.5)	14,700	-
	6	Regular health check-up camps for the workers engaged in mines shall be organized.	10,000	10,000
	7	Environmental Monitoring (Air, Water Soil etc.).	50,000	50,000
	<b>Total</b>		<b>3,06,700</b>	<b>1,27,000</b>

24	<p><b>Additional Environmental Activities (AEA) activities along with budgetary break up and responsibility</b></p> <p>Sh. XEN/DMO SBS Nagar will be responsible for implementation of Additional Environmental Activities (AEA). As the project having minable Quantity 29,403 MT, The project proponent has proposed to spent Rs. 14,700 (i.e @ Rs 0.50 per Ton) for AEA activities. It was proposed to spent the said amount on the followings: - ii) The project proponent shall deposit Rs. 14,700 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</p>
25	<p>Other facts: -</p> <ul style="list-style-type: none"> <li>i) That, there is no forest area is involved in the project.</li> <li>ii) Mining site does not fall under eco-sensitive zones of wildlife Sanctuary and conservation reserves.</li> <li>iii) That, no litigation is pending against the project.</li> <li>iv) During the lease period, the deposit will be worked from the top surface to 3 m or 2.80 m below ground level or above ground water table, whichever comes first.</li> <li>v) No Stream Mining shall be allowed. The operation will be done only from sunrise to sunset hence there will be no power requirement for the project at site.</li> </ul>

The Project Proponent presented the KML file by superimposing the proposed site as per the application proposal and as per approved DSR, and it was observed that the proposed area of mining site measuring 0.99 Ha falls within the area of mining site measuring 1.19 Ha approved in the DSR. The Committee noted the same.

The project proponent submitted the demarcation photographs and an undertaking certifying that the land bearing Khasra No. of the mining area is as per the proposal, NOCs/consent has been duly received from the concerned land owners, demarcated on site and are in consonance with the latest revenue record of the Village. The Committee perused the same and found the documents in order.

After detailed deliberations, SEAC decided to forward the application proposal to SEIAA with the recommendation to grant Environment Clearance under EIA Notification dated 14.09.2006 for carrying out mining of minor minerals (sand) in the area of 0.99 Ha for the quantity of 29403 MT, which shall not exceed the quantity of 33415 MT as per the approved DSR at Village ADB Bela Tajowal, District SBS Nagar, Punjab, subject to the conditions as under:

**Specific conditions:**

- (i) The Environmental Clearance (EC) 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 subject to the availability of minor minerals and valid 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. It shall be ensured that adequate numbers (as proposed) of trees shall be planted, protected, maintained and established. (Condition no. xx of the specific condition stands deleted).
- (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](http://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 7.5 m 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 10 micron i.e., PM) and NO<sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the PPCB.
- (iv) Data on ambient air quality RSPM (Particulate matter with size less than 10 micron i.e., PM) & NO<sub>x</sub> should be regularly submitted to the MoEF&CC including its Regional office located at Chandigarh and the PPCB / Central Pollution Control Board (CPCB) once in six months and SEIAA, Punjab.
- (v) Personnel working in dusty areas should wear protective respiratory devices and should be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be



undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

- (vi) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a senior executive, who will report directly to the head of the organization.
- (vii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the MoEF&CC and its Regional office located at Chandigarh and SEIAA, Punjab.
- (viii) The project proponent should inform to the Regional Office of MoEF&CC located at Chandigarh and SEIAA, Punjab regarding the date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (ix) The Regional office of MoEF&CC located at Chandigarh and PPCB shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional office by furnishing the requisite data / information / monitoring reports.
- (x) The project proponent shall submit six-monthly reports on the status of compliance of the stipulated environmental clearance conditions including the results of monitored data (both in hard copies as well as by e-mail) to the MoEF&CC, its Regional office Chandigarh, the respective Zonal Office of CPCB , PPCB, and SEIAA, Punjab. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office MoEF&CC, Chandigarh, the respective Zonal Office of CPCB and PPCB, and SEIAA, Punjab.
- (xi) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xii) The project proponent should display a copy of the clearance letter at the Regional office, District Industries Centre and the Collector's office/ Tehsildar's office.
- (xiii) The environmental statement for each financial year ending 31 March in Form-V as is mandated to be submitted by the project proponent to the PPCB (as prescribed under the Environment (Protection) Rules, 1986 amended from time to time), shall also be put on the website of the company along with the status of compliance of environmental clearance conditions. In addition, it shall also be sent to the Regional office of the MoEF&CC, Chandigarh and SEIAA, Punjab by e-mail.
- (xiv) The project proponent shall adhere to the commitments made in the Environment Management Plan.

- (xv) 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 Environmental Clearance along with the details of MoEF&CC/SEIAA website where it is displayed.
- (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 Mines & Geology 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.

**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.

**Deliberations during 264<sup>th</sup> meeting of SEIAA held on 12.10.2023.**

The case was considered by SEIAA in its 264<sup>th</sup> meeting held on 12.10.2023 which was attended by the following:

- (i) Sh. Khushwinder Singh, Executive Engineer, Head Office from Mining and Geology,.
- (ii) Sh. Paras Mahajan, Assistant Geologist and other officers from Head Office of the Mining Department.

(iii) Sh. Bhavuk Sharma, DMO, SBS Nagar, District Mining Officer.

(iv) Ms. Harmanpreet Kaur, Environmental Consultant from Eco Paryavaran Labs and Consultants.

During the meeting, the Environmental Consultant presented the salient features of the project and informed that the site is a riverbed and Public Mining Site.

To a query by SEIAA, regarding the report of sub-divisional committee, Environmental consultant informed that as per the sub-divisional committee report dated 07.12.2022, site namely PO\_SN\_BL\_ST\_05 located in Tehsil Balachour has been recommended for inclusion in Annexure V of the approved District Survey Report.

Further, XEN/DMO of SBS Nagar has already submitted an undertaking with respect to the following:

- i) The site number and the area mentioned in the application is as per the Annexure-5 of approved DSR of District SBS Nagar.
- ii) No mining site falls within the 500 m in the mining sites.
- iii) No forest area is involved in the project.
- iv) Mining site does not fall under the Eco-Sensitive Zones of Wildlife sanctuary and conservation reserves.
- v) No litigation is pending with the project.
- vi) No stream mining shall be allowed. The mining operation will be carried out only from the sunrise to sun set.
- vii) All the stipulations provided in the sand mining guidelines, 2016 and enforcement and monitoring guidelines for sand mining, 2020 issued by MoEF&CC will be complied with in true letter & spirit.

Thereafter, the proposed EMP and additional environmental activities to be carried out under the project and outlays for the same were discussed and finalized as under:

**TABLE-1**

<b>Sr. No</b>	<b>Environment mitigation measure</b>	<b>Capital Cost (In Lacs)</b>	<b>Recurring Cost (Lacs/annum)</b>
1	Water Sprinkling Measures to be done on haul road to suppress dust & Haul Road and other Roads Repair	1,00,000	20,000

	and maintenance		
2	Plantation and maintenance of 48 saplings through State Forest Department under Green Punjab Mission:  Plantation cost 0.99 Ha x 50 saplings/Ha= 48 saplings @ Rs.1000 per sapling.	48,000	16000
3	Drinking water facility, Septic Tank & Mobile toilets and solid waste management	65,000	10,000
4	Safety equipment's such as gloves, mask, helmet, First aid kit etc.	15,000	5,000
5	Additional Environmental activities (Rs.  0.5 per MT of Total quantity 29,403 *0.5)	14,700	-
6	Regular health check-up camps for the workers engaged in mines shall be organized.	10,000	10,000
7	Environmental Monitoring (Air, Water Soil etc.).	0	30,000
<b>Total</b>		<b>2,52,700</b>	<b>91,000</b>

To another query by SEIAA, the project proponent informed that all the conditions imposed by the SEAC while appraising the project are acceptable to them.

After detailed deliberations and examination of relevant documents, SEIAA decided to accept the recommendations of SEAC and grant Environmental Clearance for mining of minor minerals (Sand) at subject cited mining site for the total area of 0.99 Ha @ of 9,801 TPA, which shall not exceed the total quantity of 29,403 MT at Village ADB Bela Tajawal, Tehsil- Balachaur , District- SBS Nagar, Punjab as per the details mentioned in the application, approved mining plan, District Survey Report and other documents and subsequent clarifications made by the project proponent and his consultation, proposed measures and subject to the conditions proposed by SEAC and following additional conditions:

**Additional Conditions:**

- I. Only manual method of mining will be permitted.
- II. The project proponent shall implement the EMP including AEA as per Table 1 above.
- III. 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.
- IV. Enhancement in the total quantity to be extracted can be approved by SEIAA only upon submission of credible replenishment study data.

The meeting ended with a vote of thanks to the Chair.

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