EXECUTIVE SUMMARY

1. PROJECT DESCRIPTION

District Survey Report of District Hoshairpur has been approved by State Environment Impact Assessment Authority (SEIAA) vide letter No. SEIAA/MS/2022/399 dated 13/02/2023. As per approved DSR, the proposed sand mining site involves mining of minor mineral i.e. sand from Agriculture land/Patta land in Village-Saidpur, Tehsil- Garhshankar, District- Hoshiarpur, State Punjab from an area of 6.07 Ha., Khasra No. 118/477, 478, 479, 481, 482, 483, 484, 485, 486, 487, 497, 498, 119//501, 120//502. As per approved mining plan, the proposed production capacity is 38118 TPA of sand.

The sand is in high demand in the local market; it is used for basically construction purposes.

Table No. 1.: Year wise development and production for three years is tabulated below:

Year		Mineable area (m ²)		Depth (m)	Recoverable N	Mineable
		(Total area	- Safety area=		Reserves	(Tonnes)
		Mineable area)			(60% of N	Mineable
		Pit-I	Pit-II		Reserve)	
First	1 st	38928	12152	1	38118	
Second	2 nd	36528	11044	1	38118	
Third	3 rd	34162	9966	0.55	38118	
Total	l	-			1,14,35	4

The proposed mining project has been categorized as Category B1 project as per EIA Notification, 2006.

2. Proponent & Address:

As per the Chief Engineer/ Drainage & Mines and Geology Punjab, office Memo No. 8893-8901 dated 21/11/2022, XEN/DMO District- Hoshiarpur, Government of Punjab has been nominated as Project Proponent and authorized to carry out mining operations in



Location: Village- Saidpur, Tehsil-Garhshankar, District- Hoshiarpur, State-Punjab

District Hoshiarpur.

Address:- Canal Colony, Hoshiarpur, Punjab

3. Brief description of nature, size and location of the project:

Brief details of the project are described in the **Table No.2** given below:

S. No.	Particulars	Description	on	
A	Mining Lease & Location Details			
1.	Name of the Project	Sand Mining Project		
2.	Location			
a.	Villages	Saidpur		
b.	Tehsil	Garhshank	car	
c.	District	Hoshairpu	r	
d.	State	Punjab		
3.	Lease Area Coordinate		PIT-l	I
		Pillar	Latitude	Longitude
		No.		
		1.	31°23'51.65"N	75°58'15.47"E
		2.	31°23'51.53"N	75°58'23.43"E
		3.	31°23'49.62"N	75°58'23.46"E
		4.	31°23'49.38"N	75°58'32.47"E
		5.	31°23'47.09"N	75°58'30.91"E
		6.	31°23'47.79"N	75°58'12.82"E
		7.	31°23'49.84"N	75°58'12.94"E
		8.	31°23'49.80"N	75°58'15.41"E
	PIT-II		I	
		1	31°23'43.77"N	75°58'20.40"E
		2	31°23'43.55"N	75°58'24.10"E

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Client: XEN/DMO District Hoshiarpur, Government of Punjab

Location: Village- Saidpur, Tehsil-Garhshankar, District- Hoshiarpur, State-Punjab

		3	31°23'36.09"N	75°58'21.42"E		
		4	31°23'36.09"N	75°58'20.20"E		
4.	Lease Period of Mine	03 Years				
5.	Cost of the project	Rs. 1.6 Crores (Approximate)				
6.	Man Power	24 Nos.				
	Requirement					
7.	Water Requirement &	2.30 KLD approx. for Drinking & Dust Suppression /				
	Source	Plantation & Source: water tankers.				
В	Environmental Settings	8				
8. Elevation(RL) Highest & lo		lowest levels found	in the area are of 288.15			
m RL a			279.80 m RL			
9.	Nearest National	earest National National Highway -103A is about 3.9 km				
	Highway /State	(Aerial Distance)				
	Highway					
10.	Nearest Railway Hoshiarpur railway station approx. 15 Km			rox. 15 Km NW		
	Station					
11. Nearest Airport Adampur Airport, Jalandhar; 2		1 Km NW (Aerial				
		Distance)				
12.	Ecological Sensitive					
	Areas (Wildlife	None				
	Sanctuaries)					
13. Reserved/Projected None		None				
	Forests					
14. Nearest Saidpu		Saidpur, 1:	50m West			
	Village/Town/City					
15.	Nearest River	Swan River, 27 km in West				
16.	Seismic Zone	Zone IV				

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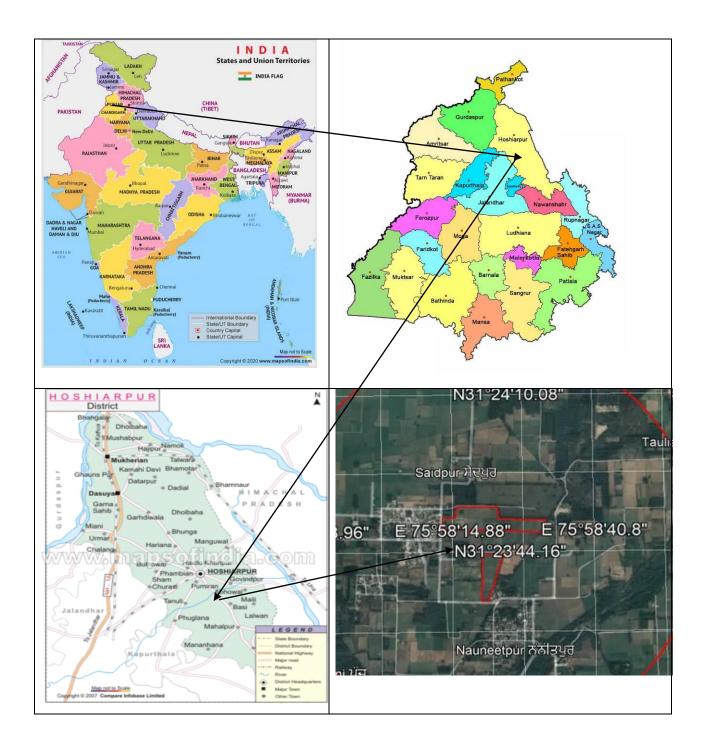


Figure No. 1: Project Location



Location: Village- Salapur, Tensil-Garnshankar, District- Hosniarpur, State-Punjab

4. STATUS OF REGULATORY CLEARANCES OF THE PROJECT

The Mining plan has been approved by Assistant Geologist, Mines & Geology, Water Resources Department, Punjab, Chandigarh vide Memo No. Glg/Pb/M.P./Saidpur/733 dated 09.03.2023. There is no National Park, Wildlife Sanctuary & National Monument, within core zone or 10 km radius of

the ML area. There is no legal issue against the project in the court of law.

5. **METHOD OF MINING**

will be excavated in slices of 1metre thickness upto a depth of 2.55 m (as per DSR report). Sand deposit fall in agricultural land so mining will be done upto 2.55 m depth. The height of slices of layer will be kept 1m each with face slope of 45 degree. 7.5 m barrier zone will be provided along with the lease boundary as stated under MMR 1961. A distance of 3m or 10% of width of river whichever is more to be left intact as no mining zone. Top soil is about 0.45m in proposed lease area. About 1550 m² area fall in non-mineable zone because this area fall in 50m of permanent structure (house). The maximum level of annual production planned is 38118 TPA. Mining will be carried out

The mining is proposed by opencast semi- mechanized method without drilling and blasting. Sand

only in summer i.e. 1st April to 30th June from 6.00 am to 7.00 pm and in winter i.e. 1st October to

31st March from 7.00 am to 5.00 pm. Mineral extraction will be done for a period of about 270 days

in a year.

6. DESCRIPTION OF THE ENVIRONMENT

The entire proposed mine lease area is considered as core zone. The surrounding area covering 10 km radius from the periphery of the core zone is considered as buffer zone. The study area covers 10 km radius of the Sand Mining Project located at Village- Saidpur Tehsil- Garhshankar District-

Hoshairpur, Punjab.

The climate of Hoshiarpur district can be classified as tropical steppe hot and semi-arid type. After February, temperature begins to rise rapidly. June is generally the hottest month with the mean daily

temperature at about 41°C. Afternoon thundershowers which occur on some days during the summer

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bring welcome relief though only temporarily. With the onset of monsoon by about the end of June or early in July, the day temperature drops down appreciably. But the nights continue to be a warm during the summer. Due to increase moisture in the monsoon air, the weather is often sultry and uncomfortable, in between these rains. After about mid- September when the monsoon withdraws temperatures decrease, the drop in the night temperature being rapid. January is the coldest month with a mean minimum temperature of 5.6°C. The mean annual temperature is 22.2°C. Dust storms are common in May and June when the day temperature exceeds 40.0°C. (Source: DSR Hoshiarpur)

The base-line data has been collected in the summer season from April to June 2023 in the project site and 10 km buffer zone for prominent environmental attributes like Ambient Air Quality, Ambient Noise Level, Water quality and Soil profile. In order to get an idea about the existing state of the environment, various environmental attributes such as meteorology, air quality, water quality, soil quality, noise level, ecology and socio-economic environment have been studied/monitored. The results of all the parameters were found within the prescribed limits.

7. ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

Based on the Baseline Environment, environmental impacts of the mining activity on the surrounding environment are described in following sub-sections.

7.1 Impact on Land Use Pattern and Mitigation Measures

Sand mining activities result in surface degradation due to road network and mining activities. But by adopting the following mitigation measures, the impact will be minimized:

- Road will be maintained in good condition by using local earth material.
- Regular levelling of transportation route.
- Removal of sand shall not exceed 60% of the mine lease area, which will minimize effect of erosion.
- The mining will not be carried out below the ground water level.

7.2 Impact on Air Quality and Mitigation Measures

The mining operations, loading, and transportation operations may cause deterioration in air quality.

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Semi mechanized mining method shall be adopted for the mining of sand and following mitigation measures will be implemented:

- Loaded vehicles will be covered with tarpaulin.
- PUC certified vehicles will be used.
- Overloading will be avoided.
- Plantation will be carried out along the approach road and vicinity area.
- Periodic air quality monitoring will be done and adequate measures will be done.

7.3 Impact of Noise Levels and Mitigation Measures

Noise level will increase due to transportation. To minimize the impact of noise, following mitigation measures will be adopted:

- o Proper maintenance of vehicles will be done on regular basis.
- o Necessary Personnel protective equipment will be provided to the workers.
- o Adequate silencers will be provided in all the diesel engines of vehicles.
- o Minimum use of horns and speed limit of 10km/hr in the village area.
- o Plantation will be carried out along the approach road and vicinity area.

7.4 Impact on Water Resources and Mitigation Measures

No waste water is generated from the mining activity of minor mineral. However, following mitigation measures will be adopted:

Surface Water Resources

• Monitoring of water will be carried out periodically. Water analysis will be carried out seasonally.

Groundwater Resources

- Regular monitoring of water levels and quality in the existing open wells and bore wells in the vicinity will be carried out. If found necessary, additional observation wells will be sunk for monitoring the water levels and quality around the mine representing both upstream and downstream conditions. In addition to this, following mitigation measures will also be adopted:
- River streams will not be diverted to form inactive channels.

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- Groundwater will not be intersected during mining activities.
- Mobile toilets will be made available near mine's office.

7.5 Impact on Biological Environment and Mitigation Measures

Ecological impact on aquatic life, flora and fauna and surrounding habitat due to fugitive emission. Following mitigation measures will be adopted:

Flora

- Pollutant like dust, gaseous emanations will be minimized at the generation point itself and adequate measures will be taken to prevent their impact on environment.
- There is no forest in the core zone of mining lease area. So, there will be no deforestation due to mining.
- The greenery will be developed under green belt development programme in the village panchayat land and along the approach road will improve the floral environment of the area.

Fauna

- No mining will be carried out during the monsoon season to minimize impact on aquatic life which is mainly breeding season.
- The lease area is not inhabited by any wild life, as there is no forest cover, hence there will not be any effect on migration or extinction of wildlife.

7.6 Socio-Economic Profile

The social demographic profile of the area is not likely to be much affected, as there is no displacement of people due to the project. The mining in the area has created rural employment. The mining activity in the region has positive impact on the social economic condition of the area by providing employment to the local inhabitants; wages paid increase the per capita income.

8. ENVIRONMENTAL MONITORING PROGRAMME

Following table depicts the monitoring schedule for environmental parameters



Executive Summary

Location: Village- Saidpur, Tehsil-Garhshankar, District- Hoshiarpur, State-Punjab

Table No.3: Environmental Monitoring Programme

S.No.	Particulars	Parameters for	Duration of	Monitoring	Location
		Monitoring	Station	Frequencies	
1	Air	PM ₁₀ , PM _{2.5} , SO ₂ ,	24 hr	Twice a week	One location
	Emission	NO _x and CO			inside and One
					outside
2	Noise	Spot Noise level	8 hr	Once in a month	One location
		recording Leq		(Day/ Night)	inside and One
		(day), Leq (night),			outside
		Leq (dn)			
3	Surface &	Physical,	Grab	Quarterly	One location
	Ground	Chemical			Surface water
	Water				and One
					Location
					Ground Water
4	Soil	Physico - chemical	Grab	Twice in a year	One location
	Sampling	parameters and			inside and One
		metals			outside

9. ADDITIONAL STUDIES

> Risk Assessment

The complete mining operation will be carried out under the management control and direction of a qualified mine manager holding Mines Manager's Certificate of Competency. Moreover, mining staff will be sent to refresher courses from time to time to keep them updated.

Disaster Management Plan

Emergency preparedness is an important aspect in the planning of Disaster Management. Personnel would be trained suitably and prepared mentally and physically in emergency response through

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carefully planned, simulated procedures. Similarly, the key personnel and essential personnel shall be trained in the operations.

> Public Hearing

As per Terms of Reference (TOR) issued from SEIAA vide letter No. SEIAA/PB/MIN/2023/TOR/02 dated 03.08.2023, under EIA Notification of the MoEF dated 14-9-2006, as amended from time to time, public hearing has to be conducted.

10. PROJECT BENEFITS

The impact on the civic amenities will be substantial after the commencement of mining activities. Medical facilities will be provided in the form of first-aid facility at the mine. These medical facilities will also be available to local people in the surrounding in case of emergencies.

- Generation of employment and improved standard of living;
- Increased revenue to the State by way of royalty, taxes and duties; and
- Superior communication and transport facilities etc.

The employment of local people in primary and secondary sectors of project will upgrade the prosperity of the region.

11. ENVIRONMENT MANAGEMENT PLAN

The summary of environmental management plan is given below:

S.No.	Parameter	EMP
1	Land Environment	Fugitive emission shall remain confined locally within working area and emission at haul road will be controlled by water sprinkling and plantation.
2	Air Environment	Water spraying will be done for dust suppression. Trucks will be covered with tarpaulin to stop dust emission.

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 $\it Name\ of\ the\ Project:$ Sand mining project (Agricultural land), Area – 6.07 Ha.

Client: XEN/DMO District Hoshiarpur, Government of Punjab

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Location: Village- Saidpur, Tehsil-Garhshankar, District- Hoshiarpur, State-Punjab

		PUC Certified Trucks will be deployed for
		transportation.
3	Water Environment	Mining will not interfere with the ground water table.
4	Noise Environment	Minimum use of Horns near the village area. Use of loud sound systems in transport vehicles will be prohibited.
5	Biological Environment	Awareness program will be conducted for labours to sensitize them about importance of biological environment
6	Health & Safety	Labours will be made aware of the ways of working and safety measures. Medical facilities & first aid boxes along with antivenom will be provided in the mine premises. Health Awareness Programmes and camps shall be arranged for local villagers.
